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EL 3109 / 4206 / 5366

WHITE CLIFF

FINAL REPORT AT LICENCE SURRENDER, FOR THE PERIOD 24/7/2003 TO 7/4/2016

Submitted by
Tasman Resources Ltd
2016

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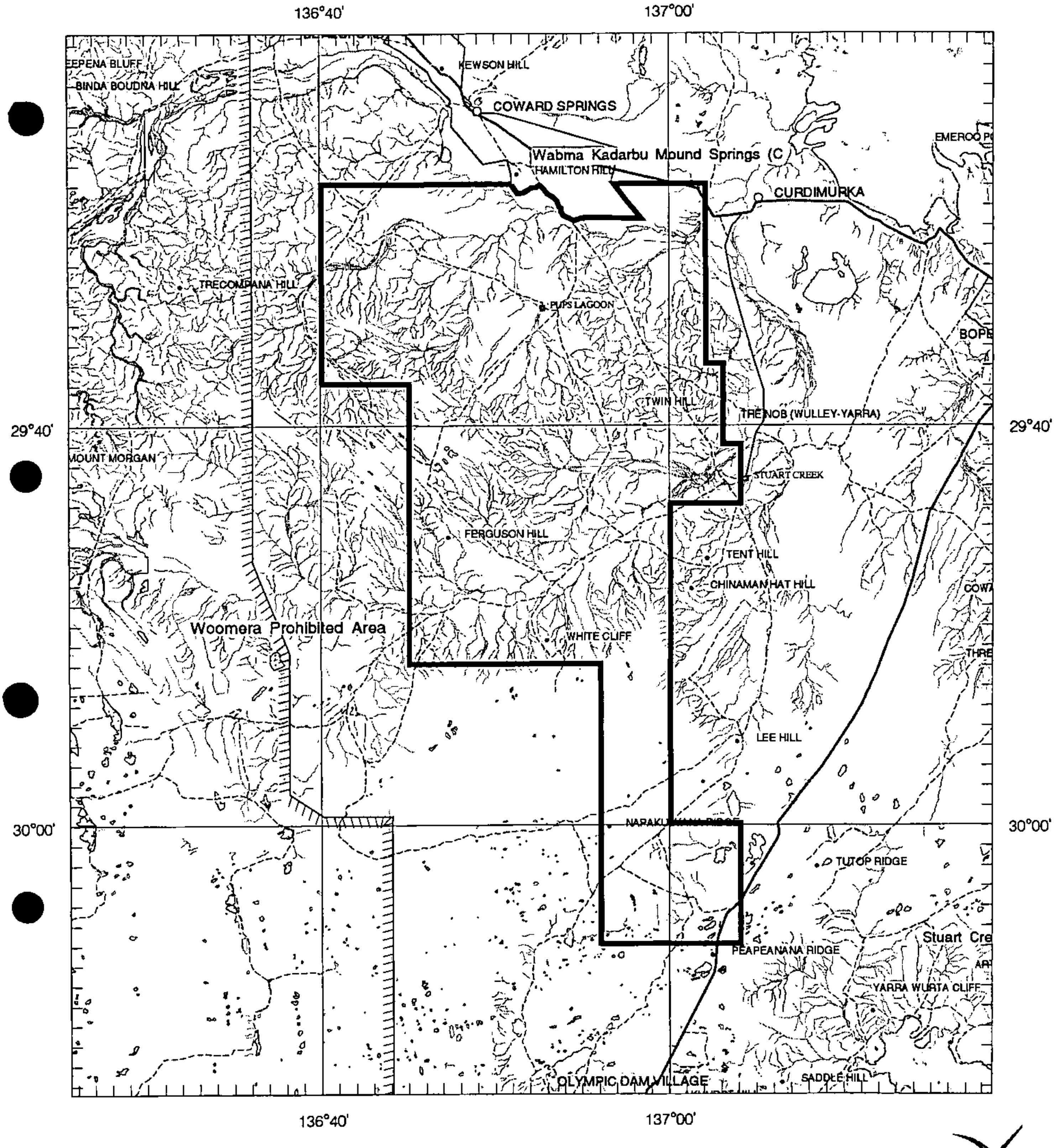
Government of South Australia
Department of State Development

SCHEDULE A



SCALE 1: 500 000

KILOMETRES 10 0 10 20 30 40 50 KILOMETRES

APPLICATION LODGED IN : DATUM AGD66

GDA
GEOCENTRIC DATUM OF AUSTRALIA

APPLICANT : **TASMAN RESOURCES NL**

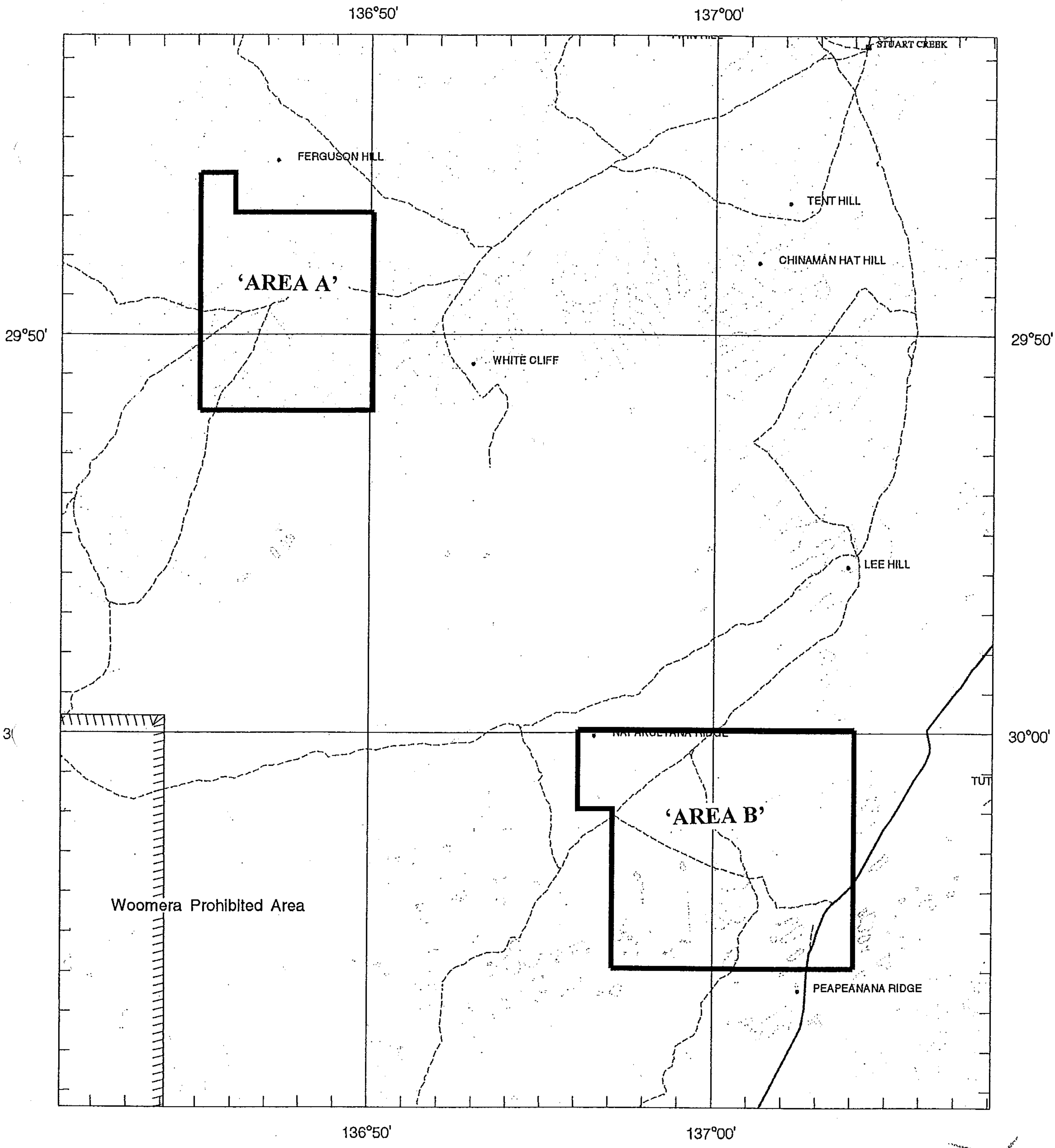
FILE REF : **178/02** TYPE : **MINERAL ONLY** AREA : **1563** km² (approx.)

1:250000 MAPSHEETS : **CURDIMURKA ANDAMOOKA**

LOCALITY : **WHITE CLIFF AREA - Approximately 70 km NNW of Andamooka**

DATE GRANTED : **24 July 2003** DATE EXPIRED : **23 July ~~2004~~** 2005 **EL No : 3109**

SCHEDULE A



SCALE 1: 250 000

KILOMETRES 5 0 5 10 15 20 25 KILOMETRES

LICENCE GRANTED IN : DATUM AGD66

GDA

APPLICANT : **TASMAN RESOURCES NL**

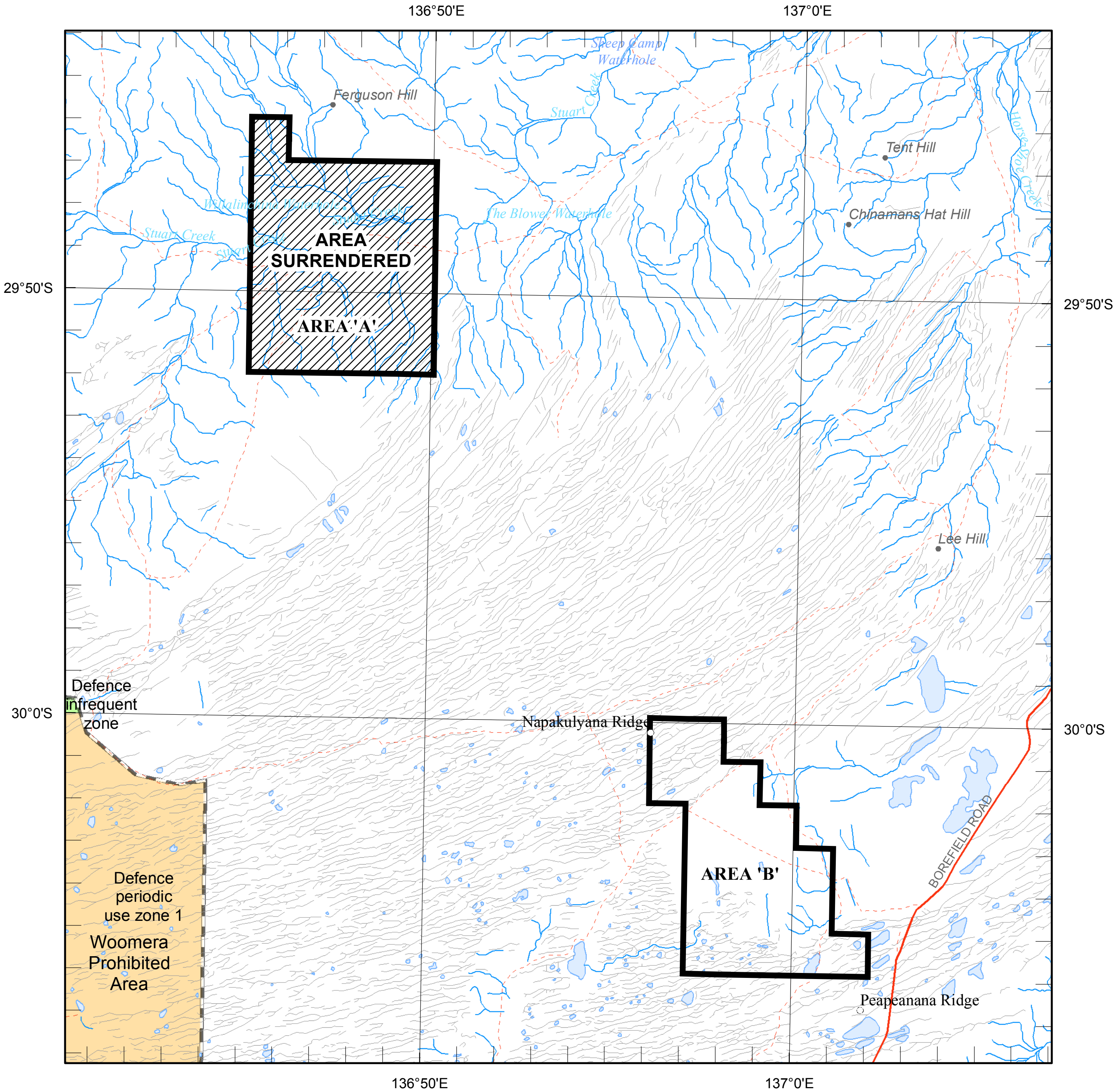
FILE REF : **201/08** TYPE : **MINERAL ONLY** AREA : **208** km² (approx.)

1:250000 MAPSHEETS : **CURDIMURKA ANDAMOOKA**

LOCALITY : **WHITE CLIFF AREA - Approximately 70 km NNW of Andamooka**

DATE GRANTED : **17-Nov-2008** DATE EXPIRED : **16-Nov-2009** EL NO : **4206**

SCHEDULE A



SCALE 1 : 250 000

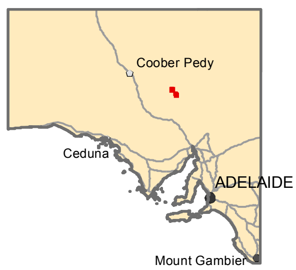
4 0 4 8 12 16 20

Kilometres

GDA GEOCENTRIC DATUM OF AUSTRALIA

APPLICATION BOUNDARIES LODGED IN : DATUM AGD66

LOCALITY



APPLICANT : **TASMAN RESOURCES LIMITED**

FILE REF : **2013/00159** TYPE : **MINERAL ONLY**

AREA : **62** sq km (approx)

1 : 250 000 MAPSHEETS : **CURDIMURKA ANDAMOOKA**

LOCALITY : **WHITE CLIFF AREA**
Approximately 70 km NNW of Andamooka

DATE GRANTED: **17-Nov-2013** DATE EXPIRED: **16-Nov-2015** EL NO: **5366**

ACN 009 253 187

LAKE TORRENS PROJECT:

FINAL SURRENDER REPORT

EL 5366 (WHITE CLIFF):

(INCLUDING PART OF FORMER ELS 4206 AND 3109)

HELD BY:	Tasman Resources Ltd			
MANAGER and OPERATOR:	Tasman Resources Ltd			
AUTHOR:	R N Smith			
DUE DATE FOR SUBMISSION:	29 April 2016			
MAP SHEETS:	1:250,000:	SH/53-12 Andamooka		
GEOGRAPHIC COORDS:	Min East:	686,600mE	Max East:	696,100mE
	Min North:	6,668,600mN	Max North:	6,679,800mN
Datum: GDA 94:	MGA Zone: 53			
COMMODITY(s):	Copper, Gold, Zinc, Lead, Uranium			
KEY WORDS:	Geochemistry			

Distribution:

- DSD, South Australia
- Tasman Resources Ltd

February, 2016

SUMMARY OF WORK COMPLETED

Tasman Resources Ltd was first granted an exploration licence in the White Cliff area (currently EL 5366) in 2002, and this licence was included within the Lake Torrens Amalgamated Expenditure and Reporting Agreement area (AEA) with DSD till early 2016 when the most recent licence, EL 5366 was surrendered. The location of the licence is shown in Figure 1.

Almost all of the detailed exploration within the AEA was conducted within EL 4322 its predecessors and other tenements, with only minimal work being conducted in the White Cliff (EL 5366) area.

The detailed work at White Cliff consisted initially of the generation of a conceptual target for Mississippi-style base metal mineralisation within the Cambrian-age Andamooka Limestone. This target envisaged the migration of metals from pre-Cambrian sediments along relatively late-stage faults and structures clearly recognisable in regional magnetics and the main seismic reflection traverse conducted through the area by Geoscience Australia in 2003. These structures are believed to be related to late stage activity associated with the Torrens Hinge Zone. For further details see Appendix 1.

To follow up this conceptual target, a detailed geochemical survey was conducted over one of the main structures recognised, with a view to defining drill targets. A relatively new geochemical technique, SDP Soil Gas was adopted, and further details of how this technique works, sampling details in the tenement and results of the SDP survey are provided in Appendix 1, which has been extracted from Tasman’s 2005 Annual Technical Report for the AEA to DSD.

Complete details of the SDP sampling over EL 5366 and the tenement to the south (formerly EL 3209, now EL 5499) are provided in Appendix 1, however drilling designed to follow up SDP anomalies conducted on the tenement to the south, is not reported here. A small number of the SDP samples included here are from a portion of EL 5499 that was surrendered concurrently with the surrender of EL 5366 in early 2016.

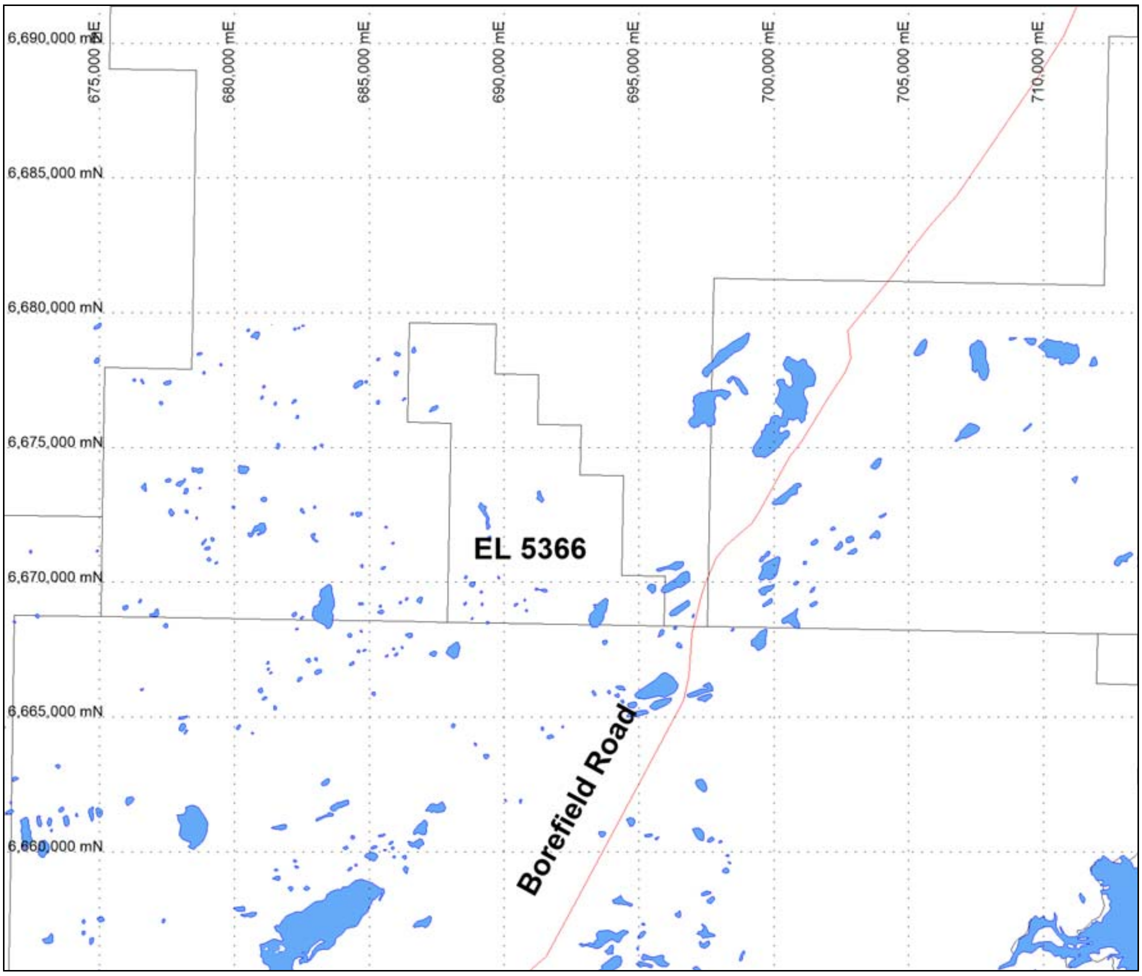


Figure 1: Location plan of EL 5366. (GDA 94; Zone 53).

Appended Report:

Details of the base metal model and target, SDP Soil Gas geochemistry sampling and results are included in Appendix 1, which has been extracted from Tasman's Annual Technical report for the Lake Torrens AEA for 2005.

Appendix 1

Tasman Resources NL

ACN 009 253 187

JOINT ANNUAL TECHNICAL REPORT

LAKE TORRENS PROJECT

Amalgamated Reporting Group

for

Exploration Licences

2832, 2989, 3109, 3123, 3140, 3174, 3175, 3176, 3177, 3209, & 3441

For the Year Ending December 2005

Tasman Resources NL Report Number 2006-1

HELD BY:	Tasman Resources NL			
MANAGER and OPERATOR:	Tasman Resources NL			
AUTHOR:	M J Glasson			
SUBMITTED TO:	G Solomon			
DUE DATE FOR SUBMISSION:	31 January 2006			
PROSPECTS:				
MAP SHEETS:	**1:250,000:**	SH/53-08 Curdimurka SH/53-12 Andamooka		
GEOGRAPHIC COORDS	Min East:	**662000mE**	Max East:	**810000mE**
	Min North:	**6628000mN**	Max North:	**6758000mN**
	Datum: AGD84	Zone: 53		
COMMODITY(s):	**Copper, Gold, Zinc, Lead, Uranium**			
KEY WORDS:	AMT, Andamooka, Cambrian, Copper, Curdimurka, Diamonds, Diamond Drilling, Geophysical Interpretation, Gravity, Heavy Mineral Sampling, IOCG, Lead, Marathon South, Mesoproterozoic, MVT, Neoproterozoic, Petrophysics, Soil Sampling, Soil Desorption Pyrolysis, Stuart Shelf, Zinc.			

Distribution:

- Tasman Resources NL
- Primary Industries and Resources SA

March 2006

8. WORK CARRIED OUT DURING THE REPORTING PERIOD

During 2005 Tasman completed the following work on the Lake Torrens Project:

- SDP soil gas sampling;
- Petrophysical data measurements;
- Geophysical modelling – development of a density-susceptibility model for Marathon South;
- Geophysical data processing and interpretation for kimberlite diamond targets;
- Geological interpretation of seismic data;
- Diamond target reconnaissance and heavy mineral sampling;
- NQ core drilling, core logging, sampling and geochemical analysis of drill samples.

8.1. Geochemistry

8.1.1. SDP Soil Sampling Program

A soil sampling program was carried out over 28km of strike along an interpreted northwest striking, northeast dipping basin margin fault within Tasman's ELs 3109 and 3209. This fault (Figure 3) is evident on the seismic survey conducted along the bore field road to the north of Olympic Dam by Geoscience Australia in 2003. The fault transects a flat lying sequence of Proterozoic sediments overlain by the Cambrian Andamooka Limestone. The latter is approximately 100-150m thick and is a potential host for Missisippi Valley Type (MVT) Pb-Zn deposits derived from upward mineralised fluid migration along basin margin faults due to dewatering of underlying Proterozoic sediments, possibly during the Delamerian inversion of the basin. Tasman's exploration rationale is that any MVT deposits are likely to have formed in close proximity to the basin margin faults as is the case on the Lennard Shelf in Western Australia. Other deep seated parallel faults exist further eastwards however these are considered lower priority targets at this stage.

An orientation line was also sampled across the Ediacara Pb-Zn deposit on the eastern side of Lake Torrens to provide a comparative template over known mineralisation of similar style to that being targeted by Tasman's survey.

The soil samples were sent to SDP Pty Ltd in Brisbane for soil gas analysis using Soil Desorption Pyrolysis (SDP). SDP is a recently developed tool for mineral exploration under cover and is claimed to have the ability to detect many styles of mineralization at considerable depth and in areas where no other method works.

SDP measures trace amounts of volatile compounds which are adsorbed onto clay-sized particles in soil. Volatiles such as light hydrocarbons are known to migrate readily through thick columns of rock. Most of these compounds reach the surface and are lost to the atmosphere however a tiny proportion of the gases present just below ground level are adsorbed onto the surface of clay particles which can be sampled and the gas content measured.

The SDP method for mineral exploration is based on the fact that rocks degas constantly as a result of processes of burial, metamorphism and interaction with groundwater. However, ore deposits and the fluids from which they are derived are chemically very different from their surroundings, and are frequently also associated with high temperatures. The net result is that the gas flux above a buried ore deposit is quite distinct from the regional background signal although the differences are subtle, but with careful sampling and laboratory procedures, they can be measured.

240 soil samples (sample nos. Z001 to Z240) were collected at 300m spacings on 48 lines spaced 600m apart along the interpreted location of the basin margin fault

(Figure 3). An additional 25 samples (Z241 to Z265) were collected at 500m spacings along 3 background lines on the southwest side of the fault. Sample locations were recorded with a handheld GPS and later downloaded to a notebook computer. Sample locations, sample numbers and site descriptions are included in Appendix 1.

At each sample site the top 10cm of soil and scree were removed over a 1m^2 area and the soil beneath collected and sieved to –80#. A 0.5-1.0kg sieved sample was collected in an air tight zip lock plastic bag for SDP analysis. A -40# sample was also taken at each site for possible future geochemical analysis.

Plate 1: SDP Sample Site on Lower Silcrete Plain Beneath Breakaways

The sampling grid can be broadly split into three or four geomorphological or geological domains (refer figure in Appendix 1):

1. Samples Z001 to Z067, Z146 to Z175, Z177, Z178, Z183, Z188 & Z241 to 248 - in gently undulating country covered with a thin veneer of Tertiary silcrete scree over weathered Mesozoic sediments (Bull Dog Shale). (A thin mantle of Tertiary gravels appears to overlie the Mesozoic in places).

2. Sample nos. Z067 to Z145, Z149, Z150 & Z256 to Z265 - all in sand dune country blanketing Mesozoic sediments. Sample locations were selected to avoid the dunes themselves as it was considered by SDP's consultant that the sand dunes, due to their mobility and permeability, may have already degassed to some extent and hence should be avoided.

3. Sample nos. Z176 to Z193 - around the edge of breakaways in the SE portion of the grid where Bull Dog Shale is exposed.

4. Sample nos. Z193 to Z248 - mostly a thin veneer of Tertiary silcrete scree over weakly sub cropping Cambrian Yarrawurta Shale which overlies the Andamooka Limestone MVT target. The eastern most sampling traverse exhibited very soft highly gypsum rich clays.

A west to north west trending valley dissecting the breakaways in the eastern portion of the grid (Figure 3) is coincident with the interpreted position of the basin margin fault and as it is cutting through the Mesozoic in the breakaways the fault may have been reactivated post Mesozoic. One of the seismic profiles also exhibits a dislocation in the upper sedimentary sequence above the interpreted fault position which also implies that the fault disrupts the younger sediments.

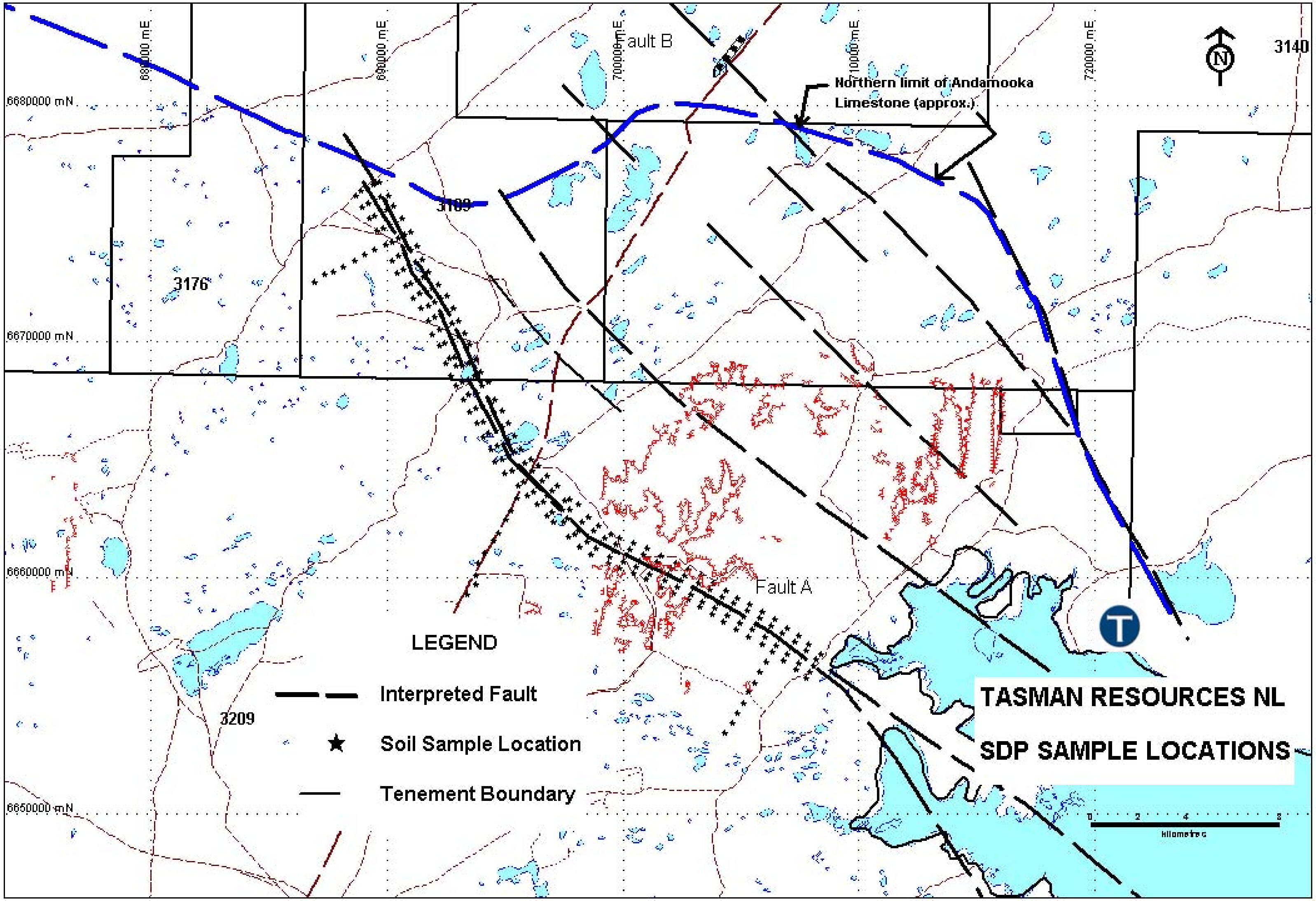


Figure 3: SDP Soil Sample Locations and Interpreted Basin Margin Faults

RESULTS

The SDP results were compared with 3 different templates, two derived from a confidential orientation study optimised to respond to the mineralisation at Ediacara and a third derived from data from the Bonarparte Basin. A report by SDP Pty Ltd outlining the methodology in more detail is attached as Appendix 1.

Analysis of the data yielded two coherent anomalies (Figure 4) on opposite sides of the borefield road which are easily accessible. The most coherent anomaly ("Target 1") is at 695,300E, 6,665,600N, around sample Z103. Inspection of Figure 4 suggests that this is at the SE end of an anomalous region which extends along strike nearly 6km to Z057. The second coherent anomaly ("Target 2") is around sample Z139 at 697,400E, 6,662,400N.

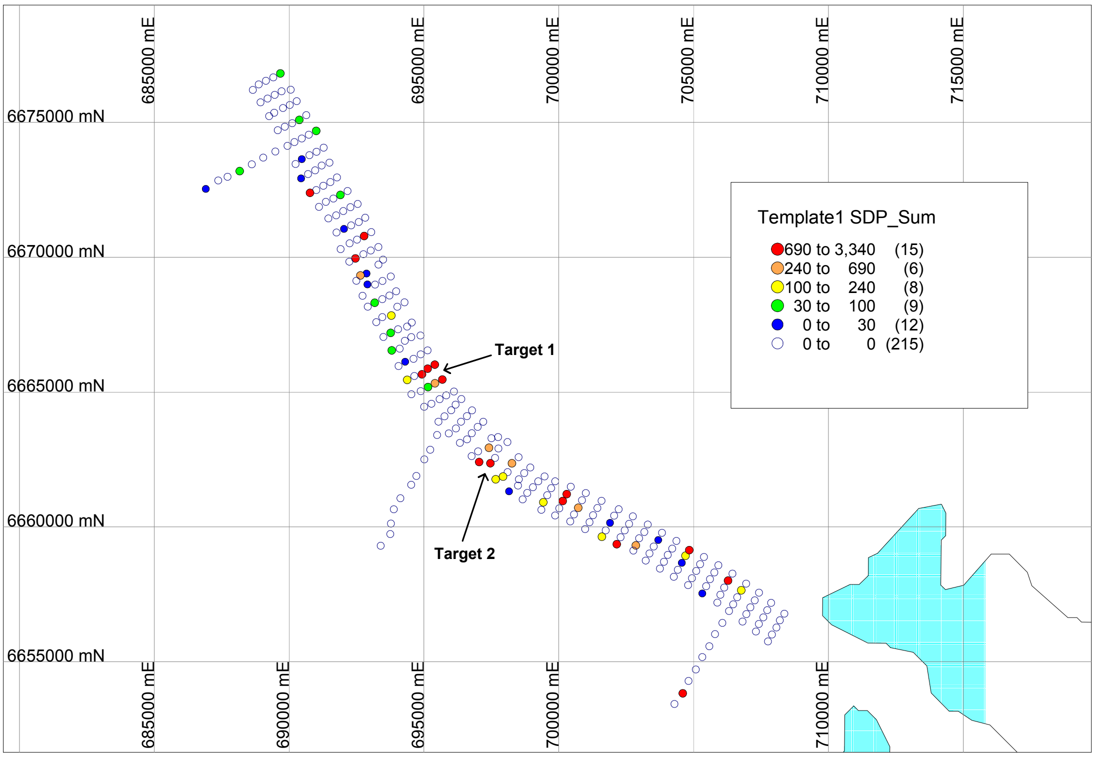


Figure 4: SDP Sample Locations Showing Target Areas

SDP recommended drilling of Target 1, followed by Target 2 and in the event of success at Target 1, it would make sense to pursue the mineralization to the northwest. They note that SDP is not especially depth sensitive, so depth to basement is best extrapolated from the seismic traverse.

Field checking of the two anomalies revealed that both are in sand dune country on claypans however the significance of this, if any, is not known.

SDP Pty Ltd

Soil-Gas Geochemistry

SDP Soil Gas Geochemistry Survey

Batch 162, 169

Roxby Downs
South Australia
Australia

A Report For

Tasman Resources Limited

14 March 2006

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Summary

Three hundred and forty nine soil samples in Batch 162 and 27 soil samples in Batch 169 were submitted for SDP analysis. Location and sampling data were provided for all samples. The 27 samples of Batch 169 were collected over a known area of carbonate hosted Zn-Pb mineralization in the Ediacara Range, South Australia. The Batch 169 samples were intended as a template control area for the nearby, larger surveys of Batch 162. Batch 162 contained two groups of samples. The 84 Y-series samples were collected for a petroleum/natural gas target. The 265 Z-series samples were collected for a carbonate hosted Zn-Pb (MVT) target.

Sample preparation consisted of cleaning and separating the 0.2-2.0 micron size fraction (for convenience termed the clay fraction) from the soil samples. Separation was done using a Stokes Law settling and centrifugation procedure.

Samples were analysed by SDP (soil desorption-pyrolysis), which is a variant of the flash pyrolytic method where isothermal pyrolysis occurs in an inert atmosphere. Approximately 150 mg of the separated clay is used per sample. The sample is placed into a Pyrex tube on top of a quartz wool plug and capped with a septa and crimp cap. The samples are transferred via an auto sampler to the pyrolysis chamber (gas chromatograph injector) coupled to a gas chromatograph mass spectrometer (gc-ms). Prior to pyrolysis the samples are held at 50^{o}C and purged with ultra-high purity helium to remove atmospheric gases. The samples are then rapidly heated to 450^{o}C for a fixed time to desorb the sorbed gases. The helium carrier gas is used to transfer the desorbed gases to the mass spectrometer.

SDP compound data are processed by a form of discriminant analysis using compound ratios in order to detect the pattern of anomalous SDP ratios that characterise the underlying mineralisation relative to the SDP patterns of the surrounding non-ore. Such a pattern of SDP ratios is a SDP template.

The Ediacara samples of Batch 169 were not able to be used to generate a viable local MVT template due a combination of the limited number of samples and the multiple geomorphologic/geological domains in the control area. The large number of domains and the limited number of samples resulted in insufficient samples in each domain to reliably differentiate mineralization from coincident non-mineral geomorphologic/geologic features. The approach taken was to evaluate and modify existing MVT templates from other areas using the Ediacara data. These Ediacara modified MVT templates were applied to the Torrens Hinge project Z-series Batch 162 samples. These results are listed in Appendix B

No Australian petroleum templates were available to be applied to the Batch 162 Y-series samples. The only templates available were three petroleum templates derived from the San Juan Basin, Colorado, U.S.A., using data generated by a different mass spectrometer and different analytical procedure. These templates were applied to the Arthur Hill anticline bore field road traverse (Y-series samples). The results are shown in Appendix C.

As requested, templates from sediment hosted mineral deposits were also applied to the Y-series data. The Y-series data were processed through one of the MVT templates applied to the Z-series samples and a template from the HYC deposit. The results are listed in Appendix D.

Sampling Procedures

Soil Sampling

BATCH 162	**Total**
Samples listed	349
Net samples submitted	349
Total clay separations	349
Insufficient clay	0
Net SDP analyses	349

BATCH 169	**Total**
Samples listed	27
Net samples submitted	27
Total clay separations	27
Insufficient clay	0
Net SDP analyses	27

Table 1: Tasman Resources SDP samples processed

The individual samples in Batch 162 consisted of an average of 1000 g of dry, sieved fine red soil in polyethylene zip lock bags. The Batch 169 samples averaged 600 g of fine red soil in zip lock polyethylene sample bags.

Figure 1: Batch 169 - 27 samples of Batch 169 collected over a known area of carbonate hosted Zn-Pb mineralization in the Ediacara Range, South Australia as a template control area

The 27 samples in Batch 169 were collected over a known area of Zn-Pb mineralization. From west to east, the samples are numbered ED017, ED016, ED015, ED001-ED014, and ED018-ED027. According to Tasman Resources, the Zn-Pb mineralization is located in the west side of a syncline in Cambrian Ajax Limestone overlying NeoProterozoic Pound sandstone. The west to East dimension of the Cambrian limestone syncline roughly corresponds to the close spaced sample location in Figure 1. The wide spaced samples in the east half of the traverse probably overlie Proterozoic sandstone. In the west part of the line, (ED017-ED009) the soil samples were collected in areas of limestone outcrop. In the east part of the line (ED010-ED027) the soil samples were collected in silcrete scree.

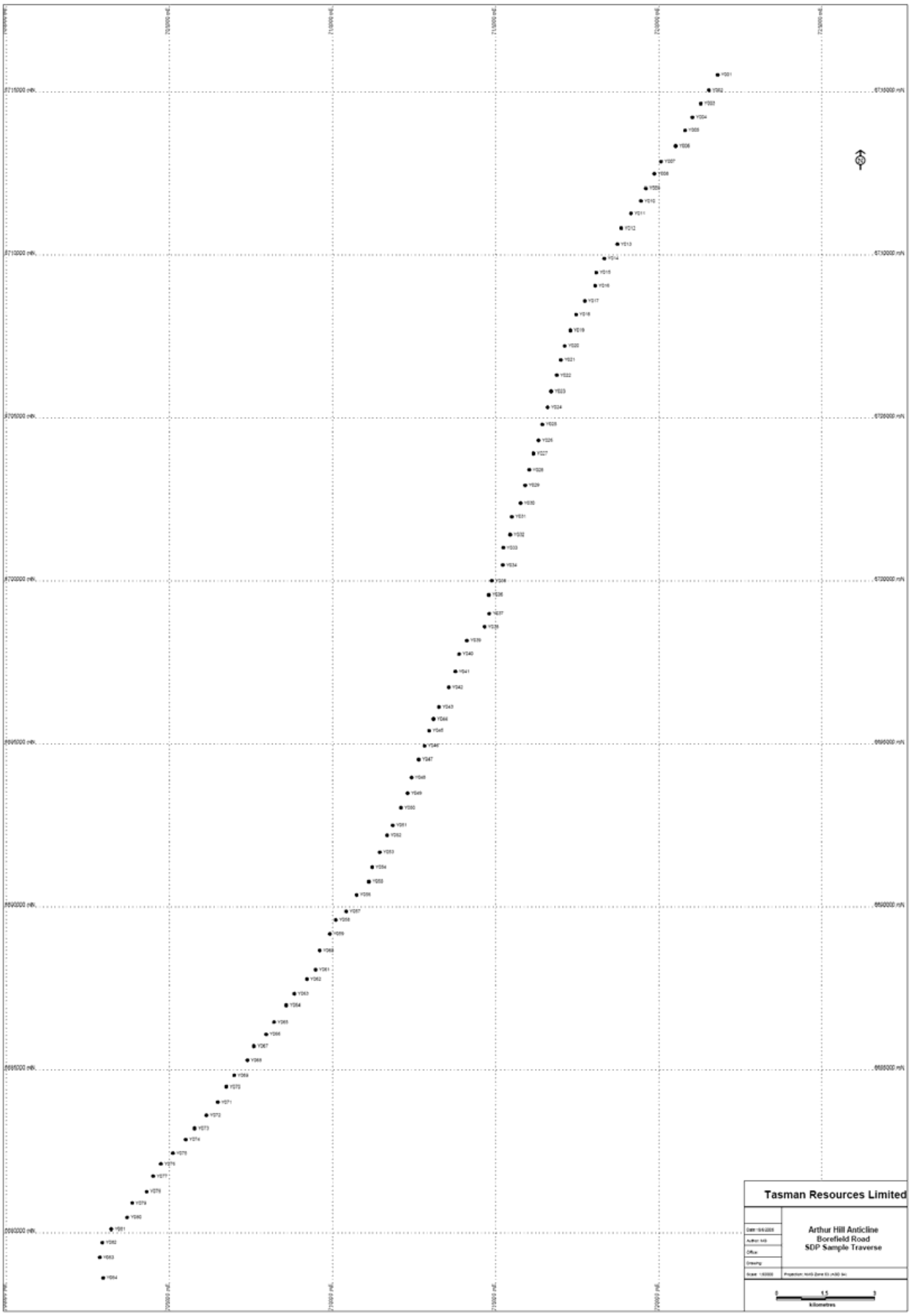


Figure 2: Batch 162 - 84 Y-series samples collected for a petroleum/natural gas target

Sample numbers Y001 to Y084 are from the approximate N-S traverse (500m sample intervals) along the WMC bore field road over the Arthur Hill Anticline - the Proterozoic gas target. Cretaceous shale outcrops near the northern end of this line and gently dipping Cretaceous? sandstone near the southern end. Probably much of the traverse is underlain by the shale. The first 30 samples were on flat silcrete covered plain and the remainder in sand dune country (only swales or the edges of dunes were sampled).

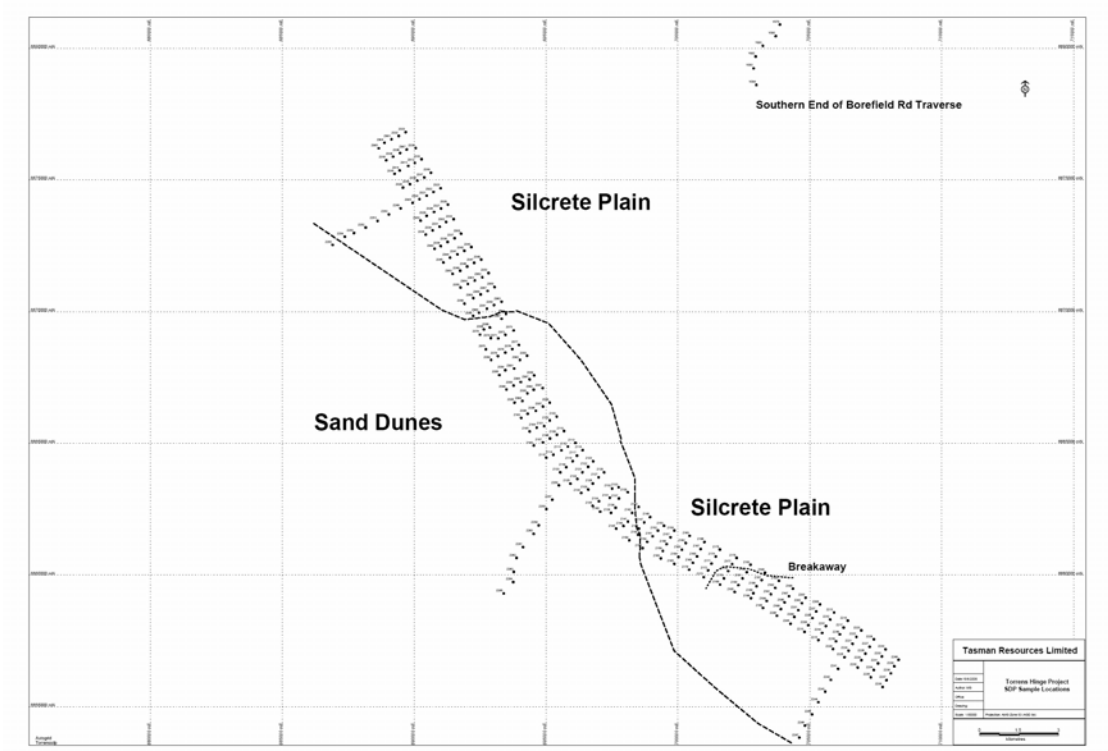


Figure 3: Batch 162 - 265 Z-series samples collected for a carbonate hosted Zn-Pb (MVT) target.

There are 265 Z-series samples (Z001–Z265). Samples Z001 to Z240 are from the approximate 600x300m grid along the interpreted position of the basin margin fault (MVT target). Samples Z241 to Z265 form 3 background lines extending from the sample grid (Figure 3). The north background line contains samples Z249-Z255 over the silcrete plain to the edge of the sand dunes. The central background line samples are Z256-Z265 in sand dune country adjacent to the bore field road. The south background line samples are Z241-Z247 over a silcrete covered plain below the breakaways to the northern edge of the sand dunes.

Sample numbers Z067 to Z145 were all in sand dune country however sample locations were selected to avoid the dunes so the grid shows variation in this area. Some of the eastern most samples below the breakaways closer to Lake Torrens may have significant gypsum content. Tasman Resources suggest that broadly, the sampling grid can be split into 3 or 4 geomorphologic/geological domains (Figure 3).

The first domain consists of samples Z001 to Z067, Z146 to Z175, Z177 ,Z178, Z183, Z188 and Z241 to 248 and is gently undulating country covered with thin veneer of Tertiary silcrete scree over weathered Mesozoic sediments (Bull Dog Shale). (A thin mantle of Tertiary gravels appears to overlie the Mesozoic in places).

The second domain consists of sand dune country blanketing Mesozoic sediments (Z068 to Z145, Z149, Z150 and Z256 to Z265.

The third domain includes the edge of the breakaways where Bull Dog Shale is exposed (Z176 to Z193) and an area of mostly thin veneer of Tertiary silcrete scree over weakly sub cropping Cambrian Yarrawurta Shale (samples Z193 to Z248) that overlies the Andamooka Limestone MVT target. Sample Z233 was collected on a wide silty floodplain adjacent to a large creek draining the breakaway. The eastern most line of samples exhibited very soft highly gypsiferous clays.

Tasman Resources suggest that the W to NW trending valley between the breakaways in the eastern portion of the grid is coincident with the interpreted position of the basin margin fault and as it is cutting through the Mesozoic in the breakaways the fault may have been reactivated post Mesozoic. The creek referred to above is probably on the fault.

Sample Preparation

Sample preparation consisted of cleaning and separating the 0.2-2.0 micron size fraction (for convenience termed the clay fraction) from the soil samples. Separation is done using a Stokes Law settling and centrifugation procedure.

Sample preparation time had to be increased, as there is sufficient electrolyte material in some of the samples to cause flocculation of the clay fraction during separation. The clay fraction was deflocculated by dialysis with distilled water, which involved multiple cycles of centrifugation, washing and re-suspension. The samples underwent wash cycles until the clay fraction did not flocculate. The number of wash cycles required for each sample was recorded. The number of additional wash cycles required for the clay to remain in suspension varied from zero to 29.

A concern about flocculating samples is the effect of a variable number of wash cycles and varying dialysis times on the SDP contents of the samples. Increased dialysis time might result in progressive removal of sorbed SDP compounds from the 0.2-2 micron fraction. Raw data and compound data, wash cycle data and SDP anomalism data have been examined and correlations calculated in previous test work. At this time the data indicate that repeated washing and dialysis of the samples does not appreciably degrade either the raw SDP compound concentrations or the resulting calculated SDP sum and count anomalism.

The one-kilogram minimum sample weight proved adequate and sufficient clay was extracted from all samples, although in some cases, a large amount of the sample submitted had to be processed.

Sample Contamination

In an area that has been subject to drilling and mining operations, it is often difficult to determine in the field if a sample has been contaminated by drilling fluids, waste, and particularly fuel that is dumped or spilled either accidentally or deliberately during the course of drilling operations. Obvious areas where samples are likely to be contaminated such as drill pads, roads and tracks can be recognised during sampling and avoided with minimal effort. Some contaminated samples can only be detected by SDP analysis. Potential sources of contamination were noted in the field descriptions of the samples. No obvious contamination was evident in the current set of samples.

Analytical Procedures

Samples were analysed by SDP (soil desorption-pyrolysis), which is a variant of the flash pyrolytic method where static isothermal pyrolysis occurs in an inert atmosphere. Approximately 150 mg of the separated clay is used per sample. The sample is placed into a Pyrex tube on top of a quartz wool plug and capped with a septa and crimp cap. The samples are transferred via an auto sampler to the pyrolysis chamber (gas chromatograph injector) coupled to a gas chromatograph mass spectrometer (gc-ms). Prior to pyrolysis the samples are held at 50^{o}C and purged with ultra-high purity helium to remove atmospheric gases. The samples are then rapidly heated to 450^{o}C for a fixed time to desorb the sorbed gases. The helium carrier gas is used to transfer the desorbed gases to the mass spectrometer.

The mass spectrometer is calibrated for both peak position and peak intensity prior to the analysis of each batch of samples. A known volatile reference material is used to calibrate peak intensity across the analytical range with the intensity of fragments compared and the overall peak intensity.

Gas species identification is accomplished by measuring appropriate quadrupole m/z peaks. Correction factors are applied to the peaks to account for contributions to the m/z value by minor peaks from other compounds.

Precision and Reproducibility

Reproducibility is checked using repeat analyses of both prepared samples and ambient atmosphere. Twenty-eight air samples analysed over four days yielded a relative standard deviation (std dev/mean) of 2.66% for raw un-normalized doubly ionised argon at m/z 20.

An indication of the relative precision of the analytical methodology for determining compounds is indicated by the data in Table 2 from a typical SDP sample. The table shows the precision of the five compounds with the lowest RSD using raw un-normalized data from nine repeats of a typical sample. For most samples, the RSD of any SDP compound almost never exceeds 15 percent and 10 percent is more normal.

The values of times 10^{-11} amps represent detector current for corrected spectrometer peaks and are proportional to compound concentrations. The compounds shown do not include any atmospheric gases and have approximate concentrations in the range of 10^{-8} to 10^{-10} torr/gram. The analytical precision of course drops considerably as the detection limit for any compound is approached.

Reproducibility of the SDP anomaly results are monitored by standards prepared by SDP Pty Ltd. SDP control standards are also inserted in the sample runs as an analytical quality control measure. The control standards used by SDP Pty Ltd are of necessity batch standards that are freshly made from one or more of the samples in the submitted batch. The criterion used by SDP Pty Ltd to select the standard is content of clay size material. The samples have to contain sufficient clay size material so that it is feasible to split the soil submitted and have each split yield sufficient clay size material for analysis. In practice, a split from each sample is first prepared and the amount of remaining soil evaluated to determine if there is sufficient material for standard or duplicate preparation. In the case where there is insufficient material from any single sample to make a standard, material from multiple samples is mixed to make a composite standard.

	Compound 1	Compound 2	Compound 3	Compound 4	Compound 5
Split-01	576	4652	10364	2450	3587
Split-02	565	4683	10378	2544	3724
Split-03	563	4984	11441	2708	3650
Split-04	559	4578	10072	2409	3442
Split-05	556	4626	10267	2465	3716
Split-06	527	4568	10281	2460	3338
Split-07	526	4646	10387	2508	3503
Split-08	590	4831	10792	2471	3798
Split-09	584	5115	11075	2701	3806
Std	22.43	192.69	447.00	108.93	163.24
Mean	560.67	4742.56	10561.89	2524.00	3618.22
RSD	4.00%	4.06%	4.23%	4.32%	4.51%

Table 2: Precision of compound data

Lack of SDP template precision can have three causes: sample variations, analytical variations and variations in the applicability of the template to the samples. The use of ratios in the template can greatly amplify previously acceptable variations in the raw analytical data. One criterion of selecting the ratios in a template is that the ratios show acceptable precision on samples from the template source area. Ratios that amplify small-scale sample and analytical variations into large-scale random ratio noise are filtered out. When the template is applied to other areas, the degree of fit of the template to the new areas will range from zero to 100 percent. When the template fit is less than ideal, some ratios that previously worked well in the original template area do not work in the new area and generate noise. As the degree of fit of the template decreases, the component of ratios that generate noise increases. That noise is usually first reflected in a decrease in precision.

The apparent relationship between the degree of applicability of a template to an area and the tested precision of that template in the area is useful in internally evaluating template results and especially in comparing the results from multiple templates on the same data.

Absolute reproducibility of near background samples can be poor although the actual variation in anomalism is very small in magnitude compared to the magnitude of strong anomalies. ***Low-level SDP anomalism should not be viewed or used like low-level anomalism generated by conventional geochemical surveys***. SDP anomaly data are composite anomalies generated by combining the hundreds to thousands of individual compound ratio anomalies. As such, there is a noise level at the background threshold.

In past surveys the relative standard deviation of strongly anomalous samples of both the laboratory and field duplicates and splits is fairly consistent. The average RSD for past field samples is 25.25% for the sum and 19.05% for the count whereas the average RSD for past laboratory repeats is 22.05% for sum and 15.24% for the count. It is significant that the RSD of field duplicates has been no worse than that of field splits.

Data Procedures

SDP compound data are processed by a form of discriminant analysis using compound ratios in order to detect the pattern of anomalous SDP ratios that characterise the underlying mineralisation relative to the SDP patterns of the surrounding non-ore. Ratios of SDP compounds are used instead of absolute amounts of SDP compounds since ratios assist in suppression of statistical noise, show much less variation than compound data due to sampling and analytical variables, and are useful in identifying contamination.

The first stage of processing is the determination of the non-ore pattern in terms of SDP compounds and ratios of those compounds. In an orientation survey, the second stage of processing is the determination if a population of SDP ratios that distinguish the particular type of mineralization sought compared to the SDP non-ore is present. Such a population of ratios, if present, is termed the template. The number of SDP ratios in a template is dependent upon the orientation survey and the criteria used to select the template ratios. One part of the selection process of the template ratios is a coefficient of variation test of the ratios selected. The coefficient of variation test is run on a significant number of repeat samples and acts as a filter to remove ratios that at first may seem to delineate the mineralization, but exhibit an unacceptably high coefficient of variation upon repeat analysis.

SDP data are then processed using the template to determine the distribution of SDP anomalies characteristic to the template mineralization. As part of the process, a background value is determined for each SDP ratio in the template. The standard deviation for each SDP ratio is also determined. For each survey sample, the background value of a SDP ratio is subtracted from the sample value for each corresponding SDP ratio in the template. The resulting greater than background value of each ratio is divided by the corresponding standard deviation of that ratio.

[(Ratio value-median)/standard deviation]

This process converts all SDP ratio values that are greater than background for all samples into a common unit relative to background, times standard deviation values, which can then be combined and further processed. For anomaly definition, a median plus two standard deviations threshold is used.

[(Ratio value-median)/standard deviation]-2

The greater than two sigma anomalous values for all the ratios in the template, for each sample point are then combined into a single anomaly value for the sample called the SDP anomaly sum. Samples in which none of the SDP ratios in the template exceed the two-sigma criteria for anomalism will have a SDP anomaly sum value of zero.

For each sample, the number of SDP ratios which are anomalous will vary between a maximum which is the total number of ratios in the template and a minimum of zero or no ratios in the template anomalous for that sample. The number of anomalous ratios in the template for each sample is called the SDP anomaly count.

As SDP anomalies are composite anomalies, interpretation of SDP data can be aided if the two SDP anomaly values for each sample (SDP anomaly sum and SDP anomaly count) are used together in evaluating results.

The SDP sum is the primary result and shows the composite magnitude of the SDP anomaly for each sample. The SDP count shows the number of anomalous ratios contributing to the sum anomaly and can be used as a rough similarity index for samples with similar sum values.

SDP Template Process

The SDP compound data is first examined to determine if multiple sample populations are present. A principal tool in the population analysis is cumulative probability analysis. The SDP software has the capability to process multiple populations of samples independently and can both derive templates based on multiple populations and process multiple populations independently through a template. The advantage of population specific processing is that a much higher anomaly to background contrast is achieved and the anomaly often has a much greater resolution. The advantage of single population processing is that if a template can successfully be derived from multi-population data treated as a single population, it is then less affected by population variations when employed as a survey tool.

Designation of not-ore samples is perhaps the most critical step in the derivation of a template as the process is dependent upon a discriminant analysis between whatever is designated not-ore and ore.

Increasing the number of not-ore samples incorporated in the template can make significant changes in the results, particularly in the early stages of template development where the number of not-ore samples is relatively small. A large population of not-ore samples ensures that the template derived discriminates between ore and as many not-ore geologic situations as is likely to be encountered. The greater the number of not-ore environments incorporated into the template, the lower the chance of spurious anomalies being caused by non-ore situations that have not been incorporated into the template. Ideally, the template should be revised and recalculated when the locations of additional non-ore samples that may be present in a group of survey samples are identified.

The template and the template generating process are tested in a number of ways. First, the template that is derived using the designated samples representing ore and not-ore is applied to all the samples as if they were an actual survey. That is, no sample designation as to ore or non-ore is made and results are calculated on the basis that background is determined from the total sample population. This is basically a test of the robustness of the template ore anomaly as the sample population in this test is biased with ore samples, and therefore the background determined from this sample population will be considerably higher than anything likely to be found during an actual exploration survey. If the SDP ore anomaly persists with such an elevated background, it is most likely to be viable during exploration use when the normal practice would be to have background determined from the total survey population. It would normally be assumed that an actual survey would have far fewer samples located over mineralization and consequently a lower background than this orientation survey. The inclusion of anomalous samples has the effect of raising background and lowering the calculated sum and count anomalism. This effect is minor when an exploration survey is conducted and the number of anomalous samples is generally a small portion of the sample population. The effect can be significant when short test lines are run over known anomalous features as the anomalous samples them are a significant part of the sample population.

Another way in which the template can be tested is to conduct a test survey over known mineralization and to provide geologic data on half of the samples and have half the samples as blind samples. The template is derived from the known samples and then applied to the blind samples. This method generally works well with the proviso that the known samples are truly representative of all the ore and not-ore variations that are present in the blind samples. In some previous tests, problems have been encountered when the ore deposit and non-ore geology was significantly different between the known and blind samples. As an example, when the ore body changes along trend from oxide to sulfide, or from Cu to Pb-Zn sulfides or the host rock changes, the practice of sampling two lines and selecting one as known and one as blind or selecting samples from one half of the ore deposit as known and the other half as blind can come to grief as the known samples are not representative of the unknown samples. Therefore the template that discriminates between the ore and not-ore based on the known samples may not work when applied to the blind samples. It is much preferable therefore, to select the known and blind samples so that both populations have the best chance of being representative of the ore and not-ore of the entire test area. Two ways of accomplishing this are to designate alternate samples along lines or if the total sample population is large enough, select the known and blind samples using a random number generator.

The blind test method can be applied to the sample population by splitting the sample population in half using a random number generator. A SDP template can then be derived independently for each data set. Each template can then be tested on a completely blind basis on the other half of the data set. This method results in two completely independently derived templates that are then tested on two blind data sets.

The Excel "Rand" function is used to assign a random number between zero and one for each sample. The samples were then sorted based on the random number and the sample population split in two. The result is two samples sets with randomly selected samples that each contains ore and not-ore samples.

Ediacara SDP Template

The Batch 169 Ediacara samples were to be used to construct a local MVT template which could then be applied to the samples of Batch 162. Unfortunately, interpretation of the Ediacara sample data indicated that an acceptable MVT template could not be derived from the Ediacara samples. There were two principal problems. The first was the limited number of samples. There were insufficient samples to enable the samples to be split into two random subsets using the procedure described previously. Without the random subset template testing procedure, the applicability of the template to blind samples could not be verified.

The second and more severe problem is that there were at least three physiographic/geologic features in the traverse that more or less also corresponded to the location of mineralization.

1. soil type
    a. Residual – (Mineralization present)
    b. Elutriated silcrete scree

2. Geology
    a. Carbonate – (Mineralization present)

   b. Sandstone

3. Topography
   a. Ridge-outcrop – (Mineralization present)
   b. Flats

The ore samples correlate with the upland residual soil samples over carbonates. This is unavoidable but causes problems with BG selection as samples from all three groups have to be present as BG or for example a very strong template will be derived with a huge number of ratios that locate the samples over carbonate or the residual soil samples. There is also a problem with the westernmost three samples (ED017, ED016 and ED015) that are down slope from the old working at the major area of mineralization. These samples appear in many ratios to have a signature that is "almost" indistinguishable from the ore. Only ED001, ED002 ED003 over the main ore area and ED005 and ED006 over the satellite body to the East were classified as ore.

It must be certain that the template is locating mineralization rather than the presence of residual soil, underlying carbonates, or ridge-outcrop topography. In order to accomplish this, there must be a statistically significant number of background samples located over residual soil, carbonate geology and ridge-outcrop topography. In this case, it was felt that there were not sufficient samples to ensure that a derived template would be tuned to mineralization rather than other factors. Therefore, it was concluded that a template derived solely from the Ediacara samples would be unreliable.

Instead, the approach taken was to evaluate and modify existing MVT templates from other areas using the Ediacara data. The resulting templates are EDIAC_L2.004 and EDIAC_L1.005. The EDIAC_L2.004 template gives a broader zone of anomalism about the target. In contrast, the EDIAC_L1.005 template appears to restrict anomalism to the more intensely mineralized areas. These templates were then applied to the rest of the Batch 162 data.

The results from the two modified MVT templates applied to the Ediacara samples are listed in Appendix A.

Results

Torrens Hinge MVT Project

Three different templates are presented. The first two are derived from another (confidential) orientation study which we have on file. They are, however, optimised to respond to the mineralisation at Ediacara, essentially by rejecting any ratios in the original template which fail to respond to any of the Ediacara ore samples. This process retains the broader response of the precursor template but tunes it for the local conditions. Template 1 responds to all the MVT deposits which we have on file. Template 2 was originally derived from the high-grade portion of a deposit, and so might be expected to have a more restricted response. Template 3 is from historical SDP work in the Bonaparte Basin. It is included for completeness, with the caveat that it was developed using a different mass spectrometer which has quite different sensitivity by mass response from our current instrument. However, when all three templates respond together, it can give us a greater degree of confidence.

Template 1 is regarded as the first choice for targeting. Appendix B shows both Sum and Count anomalism for this template. The Count parameter is the number of compound ratios in any given template which exceed a threshold of median plus 2 standard deviations, normalised to a possible maximum of 1000. The Sum is the total of all the ratios in a particular template. As a general rule, the Sum shows the most anomalous samples in a survey, while the Count is good for mapping out which areas are anomalous.

Two areas are prominent. The most coherent anomaly ("Target 1") is at 695,300E, 6.665.600N, around sample Z103. The Data suggests that this is at the SE end of an anomalous region which extends along strike nearly 6km to Z057. The second coherent anomaly ("Target 2") is around sample Z139 at 697,400E, 6,662,400N.

If any targets are to be drilled, our recommendation would be Target 1, followed by Target 2. In the event of success at Target 1, it would make sense to pursue the mineralization to the northwest. Note that SDP is not especially depth sensitive, so depth to basement is best extrapolated from the seismic traverse.

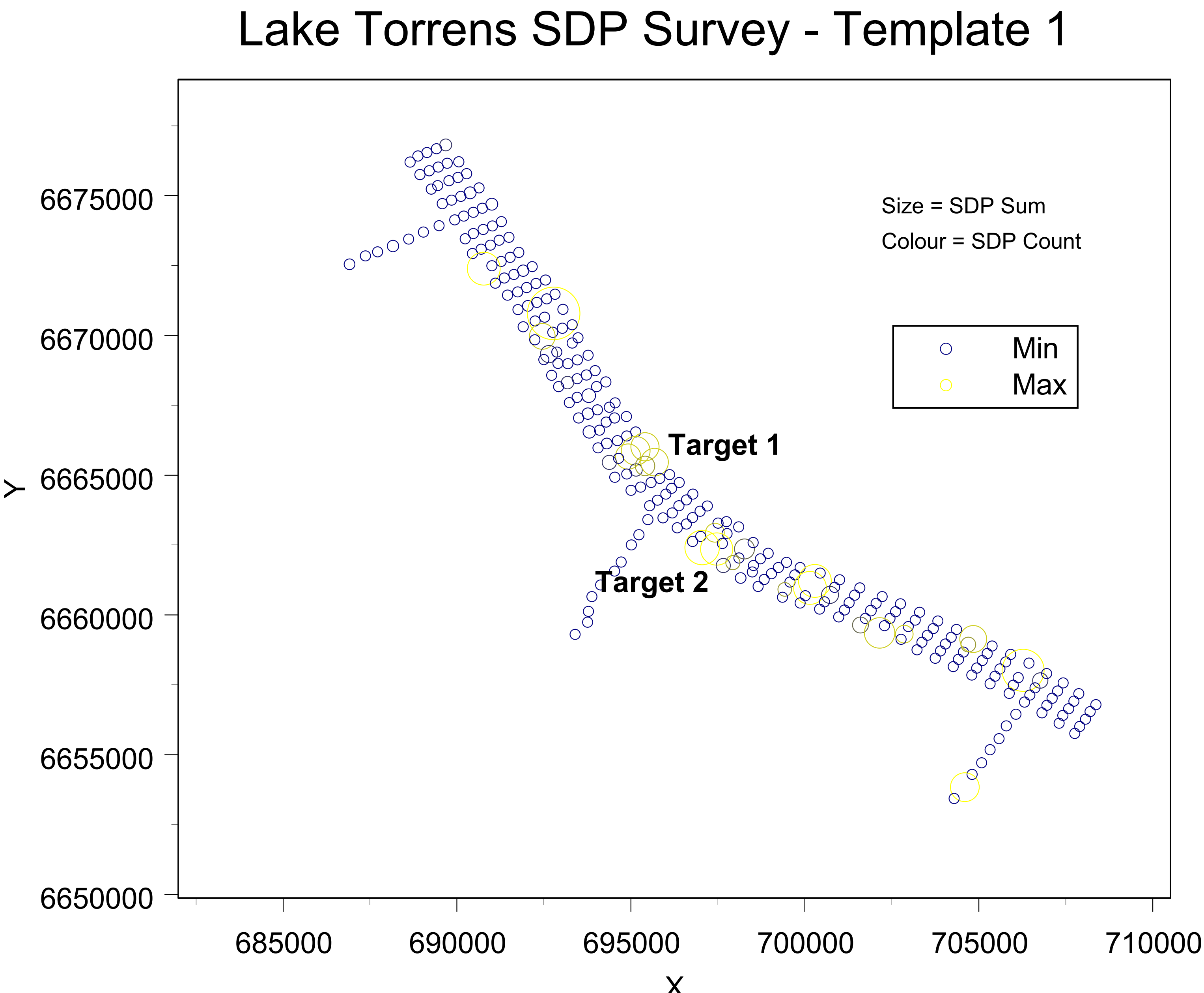
The MVT anomalies produced by the three MVT templates on the MVT grid are comparable in both area and intensity to the MVT control areas where the templates were developed.

Arthur Hill Traverse - Petroleum

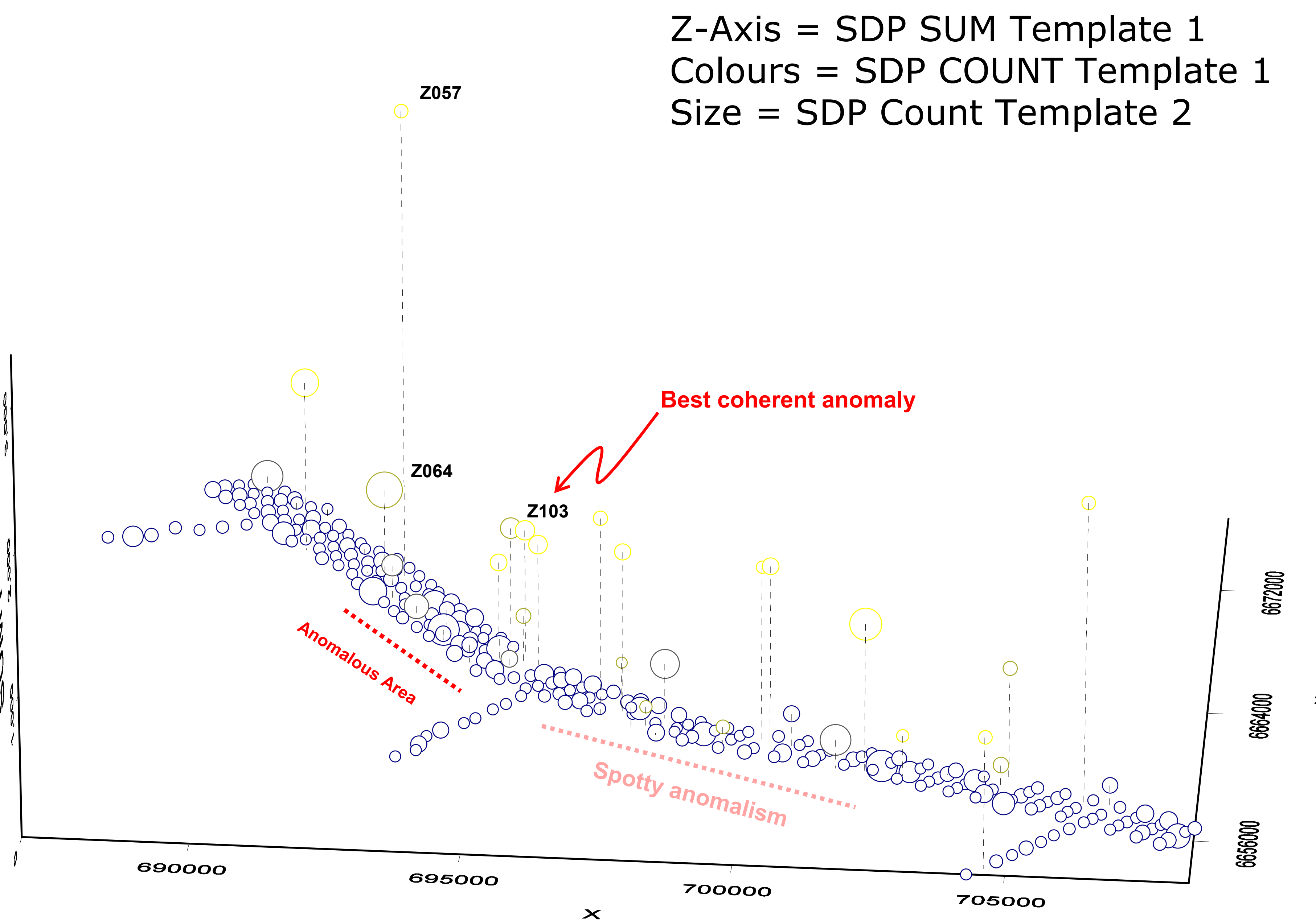
Results from three templates are listed in Appendix C. These templates are historical petroleum templates derived form the San Juan Basin in Colorado, U.S.A. These templates were used as they are the only petroleum templates that SDP Pty Ltd has available. However, again there is the caveat that they were developed using a different mass spectrometer which has quite different sensitivity by mass response from our current instrument. The Campo template was derived from samples over the Campo oil field which is located at a depth of 1219 m in the Pennsylvanian Lansing Group. The NW Castaneda template was derived from samples over the NE Castaneda oil field which is at a depth of 518 m in the Permian Red Cave Formation. The unbiased template is a synthetic template derived from theoretical principles. It should be emphasized that these templates were developed over petroleum targets in the U.S.A. and their application to natural gas targets and Australian petroleum targets is uncertain.

Arthur Hill Traverse - Minerals

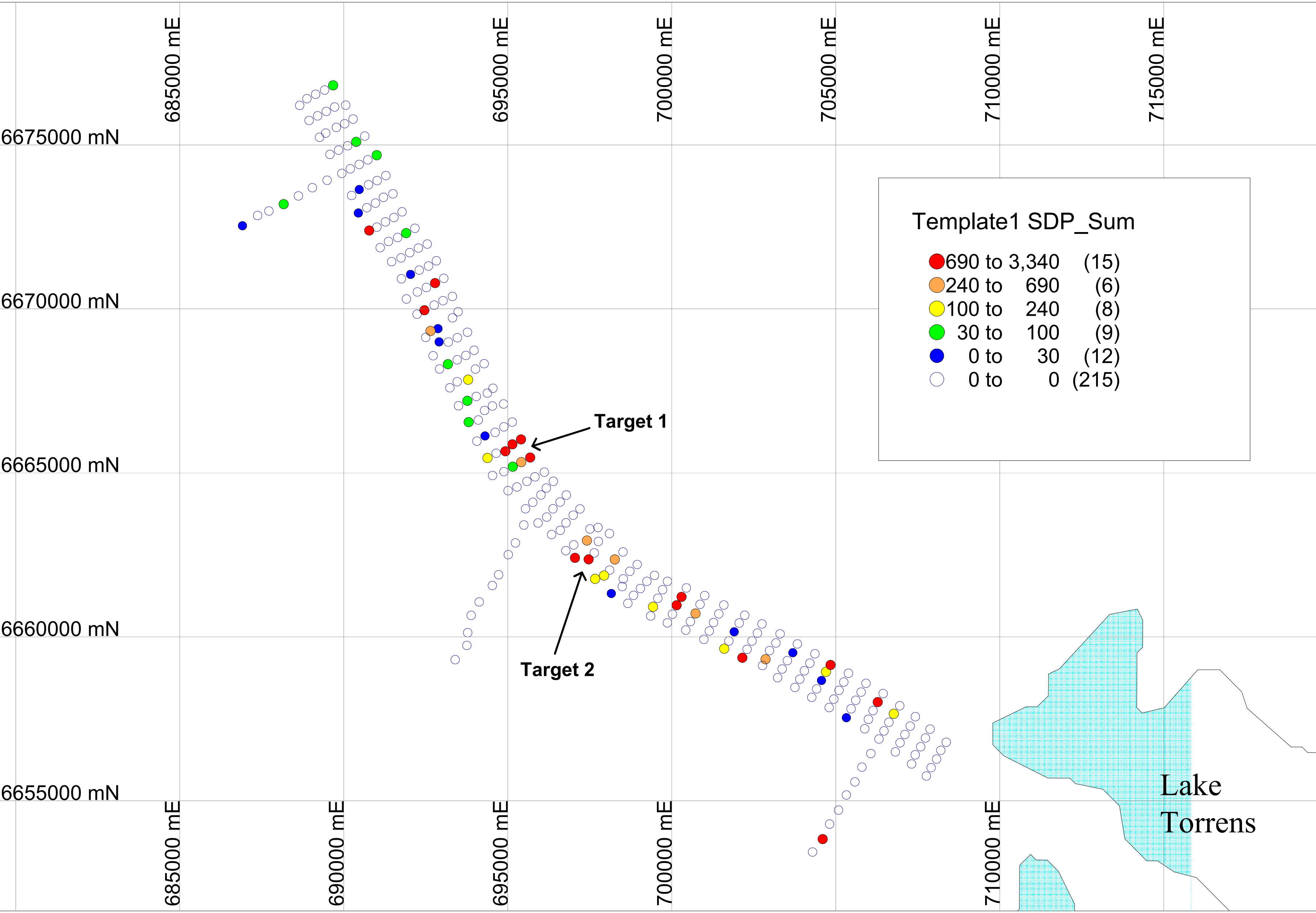
As requested, two sediment-hosted mineral deposit templates were run over the “Y traverse” petroleum samples. Template 1 is the “high Grade” MVT template that produced the most restricted anomalies on the MVT samples previously reported. Template 2 is derived from the HYC deposit at McArthur River. Interestingly, both templates show an anomalous zone from sample Y016 or Y017 to sample Y031, an approximate distance of 8 km along the traverse. It should be noted however, that the other two MVT templates that were used on the MVT grid produced only scattered and discontinuous single point anomalism along the Y traverse.



Lake Torrens SDP Survey - Template 1
Size = SDP Sum
Colour = SDP Count
Min
Max
Target 1
Target 2
6675000
6670000
6665000
6660000
6655000
6650000
685000
690000
695000
700000
705000
710000
Y
X



Z-Axis = SDP SUM Template 1
Colours = SDP COUNT Template 1
Size = SDP Count Template 2
Z057
Z064
Z103
Best coherent anomaly
Anomalous Area
Spotty anomalism
690000
695000
700000
705000
X
6656000
6664000
6672000


685000 mE
690000 mE
695000 mE
700000 mE
705000 mE
710000 mE
715000 mE
6675000 mN
6670000 mN
6665000 mN
6660000 mN
6655000 mN
Template1 SDP_Sum
690 to 3,340 (15)
240 to 690 (6)
100 to 240 (8)
30 to 100 (9)
0 to 30 (12)
0 to 0 (215)
Target 1
Target 2
Lake Torrens

Appendix A – Ediacara Batch 169 SDP Anomaly Results

Field Name	X	Y	EDIAC_L2.004 Template			EDIAC_L1.005 Template	
			Std SDP Sum	Std SDP Count		Std SDP SuM	Std SDP Count
ED015	225623	6589043	56	61		0	0
ED016	225528	6589037	0	0		0	0
ED017	225435	6589080	0	0		0	0
ED001	225728	6589050	36	51		0	0
ED002	225833	6589026	197	210		0	0
ED003	225931	6589024	74	95		0	0
ED004	226034	6589030	55	90		0	0
ED005	226128	6589034	1062	652		0	0
ED006	226231	6589054	122	163		597	1000
ED007	226324	6589053	39	56		0	0
ED008	226427	6589067	0	0		0	0
ED009	226525	6589093	0	0		0	0
ED010	226633	6589100	0	0		0	0
ED011	226736	6589100	0	0		0	0
ED012	226839	6589133	0	0		0	0
ED013	226934	6589139	0	0		0	0
ED014	227038	6589136	0	0		0	0
ED018	227540	6589157	0	0		0	0
ED019	228039	6589180	0	0		0	0
ED020	228540	6589241	0	0		0	0
ED021	229066	6589267	0	0		0	0
ED022	229553	6589308	0	0		0	0
ED023	230041	6589373	0	0		0	0
ED024	230544	6589410	0	0		0	0
ED025	231043	6589456	0	0		0	0
ED026	231544	6589512	0	0		0	0
ED027	232034	6589537	0	0		0	0

Appendix B – Torrens Hinge Project Batch 169 SDP Anomaly Results

Field Name	X	Y	EDIAC_L1.005 Template			EDIAC_L2.004 template			Bonaparte.012 Template	
			Std SDP SUM	Std SDP COUNT		Std SDP SUM	Std SDP COUNT		Std SDP SUM	Std SDP COUNT
Z001	689142	6676545	0	0		0	4		5	25
Z002	689416	6676673	0	0		0	0		0	0
Z003	689677	6676817	47	222		428	449		124	107
Z004	688876	6676413	0	0		22	46		21	68
Z005	688658	6676204	0	0		37	68		0	0
Z006	689467	6676024	0	0		0	2		0	0
Z007	689721	6676158	0	0		0	4		4	14
Z008	690059	6676213	0	0		1	12		65	161
Z009	689202	6675887	0	0		15	48		1398	652
Z010	688942	6675748	0	0		23	36		7	25
Z011	689775	6675533	0	0		1	14		9	30
Z012	690026	6675648	0	0		12	34		13	32
Z013	690284	6675788	0	0		28	44		9	34
Z014	689450	6675361	0	0		4	17		0	0
Z015	689261	6675233	0	0		0	0		0	0
Z016	690116	6674973	0	0		0	0		3	7
Z017	690382	6675094	45	111		4	12		1	7
Z018	690640	6675271	0	0		0	0		0	0
Z019	689843	6674841	0	0		17	44		15	28
Z020	689579	6674711	0	0		0	0		0	0
Z021	690473	6674405	0	0		0	0		0	0
Z022	690734	6674546	0	0		30	53		38	77
Z023	691005	6674687	53	111		0	0		2	5
Z024	690200	6674271	0	0		18	34		17	23
Z025	689940	6674133	0	55		120	73		106	73
Z026	690754	6673787	0	0		97	100		16	60
Z027	691018	6673915	0	0		0	4		0	0
Z028	691281	6674066	0	0		18	44		2	7
Z029	690473	6673640	7	111		0	0		0	0
Z030	690242	6673459	0	0		134	205		14	35
Z031	690967	6673226	0	0		0	7		8	21
Z032	691210	6673405	0	0		0	0		0	0
Z033	691498	6673511	0	0		0	0		0	0
Z034	690701	6673086	0	0		0	0		2	3
Z035	690443	6672925	2	55		1	7		1	3
Z036	691269	6672650	0	0		0	0		1	7
Z037	691532	6672789	0	0		30	58		25	53
Z038	691777	6672962	0	0		0	4		1	14
Z039	691008	6672493	0	0		0	9		2	28
Z040	690775	6672390	1211	777		722	332		240	96
Z041	691642	6672178	0	0		27	24		481	465
Z042	691902	6672311	33	111		0	0		0	1
Z043	692168	6672456	0	0		0	0		0	0
Z044	691363	6672055	0	0		0	2		1	5
Z045	691109	6671868	0	0		5	24		1	7
Z046	692009	6671712	0	0		6	22		58	60
Z047	692274	6671855	0	0		38	90		6	17
Z048	692545	6671978	0	0		4	17		20	57
Z049	691745	6671555	0	0		0	0		0	0
Z050	691459	6671439	0	0		0	0		0	0
Z051	692301	6671182	0	0		0	0		0	0
Z052	692584	6671306	0	0		0	0		0	7
Z053	692823	6671467	0	0		0	0		0	0

Field Name	X	Y	EDIAC_L1.005 Template			EDIAC_L2.004 template			Bonaparte.012 Template	
			Std SDP SUM	Std SDP COUNT		Std SDP SUM	Std SDP COUNT		Std SDP SUM	Std SDP COUNT
Z054	692036	6671050	12	55		0	0		38	69
Z055	691758	6670918	0	0		0	0		0	0
Z056	692521	6670655	0	0		24	56		20	60
Z057	692785	6670789	3331	888		35	36		28	23
Z058	693048	6670934	0	0		0	0		0	0
Z059	692244	6670518	0	0		0	0		0	0
Z060	691909	6670303	0	0		5	14		16	28
Z061	692757	6670114	0	0		0	0		0	0
Z062	693028	6670250	0	0		0	0		0	0
Z063	693314	6670380	0	0		0	2		0	0
Z064	692459	6669960	719	611		2490	586		200	96
Z065	692235	6669838	0	0		195	320		14	32
Z066	692872	6669399	5	55		2	4		8	19
Z067	693315	6669729	0	0		6	19		5	21
Z068	693485	6669914	0	0		2	2		4	12
Z069	692644	6669327	246	277		190	173		63	59
Z070	692496	6669131	0	0		0	0		0	0
Z071	693188	6668987	0	0		49	107		25	26
Z072	693464	6669122	0	0		180	312		26	60
Z073	693771	6669287	0	0		17	80		15	55
Z074	692907	6668995	5	55		0	2		11	16
Z075	692723	6668573	0	0		0	0		0	0
Z076	693722	6668581	0	0		0	0		0	0
Z077	693970	6668740	0	0		48	51		27	50
Z078	693457	6668446	0	0		12	29		0	0
Z079	693177	6668313	70	222		173	242		69	57
Z080	692919	6668168	0	0		1	12		5	14
Z081	693793	6667842	106	111		64	66		1	7
Z082	694012	6668165	0	0		88	114		467	329
Z083	694280	6668329	0	0		108	102		60	112
Z084	693458	6667779	0	0		0	0		0	0
Z085	693232	6667594	0	0		2	4		1	5
Z086	694042	6667331	0	0		92	210		0	1
Z087	694378	6667430	0	0		0	0		0	0
Z088	694547	6667580	0	0		0	0		0	0
Z089	693767	6667197	32	111		630	447		287	283
Z090	693499	6667046	0	0		0	0		0	0
Z091	694873	6667099	0	0		0	0		0	1
Z092	694532	6667040	0	0		0	0		0	0
Z093	694293	6666902	0	0		18	63		26	68
Z094	694101	6666610	0	0		84	88		245	198
Z095	693807	6666549	76	55		143	58		45	26
Z096	694615	6666235	0	0		1	7		0	0
Z097	694883	6666401	0	0		224	273		5	21
Z098	695138	6666547	0	0		0	0		48	102
Z099	694304	6666125	10	111		17	36		2	5
Z100	694059	6665969	0	0		20	68		104	227
Z101	694927	6665658	699	722		70	80		16	44
Z102	695141	6665872	923	611		219	154		157	121
Z103	695403	6666018	896	666		156	129		147	114
Z104	694646	6665597	0	0		28	61		80	206
Z105	694380	6665454	125	166		176	63		68	46
Z106	695151	6665187	65	222		114	83		86	64
Z107	694881	6665036	0	0		97	105		34	60
Z108	694537	6664920	0	0		5	9		2	3
Z109	695410	6665328	360	555		23	53		2	16
Z110	695684	6665468	856	666		147	112		46	51
Z111	695584	6664739	0	0		0	7		14	30
Z112	695828	6664878	0	0		161	134		72	102

Field Name	X	Y	EDIAC_L1.005 Template			EDIAC_L2.004 template			Bonaparte.012 Template	
			Std SDP SUM	Std SDP COUNT		Std SDP SUM	Std SDP COUNT		Std SDP SUM	Std SDP COUNT
Z113	696115	6665020	0	0		0	4		0	0
Z114	695278	6664568	0	0		0	7		0	1
Z115	695009	6664456	0	0		0	4		5	16
Z116	696010	6664326	0	0		6	12		8	19
Z117	696174	6664534	0	0		27	58		1282	505
Z118	696389	6664742	0	0		60	83		87	172
Z119	695763	6664100	0	0		0	2		0	0
Z120	695540	6663903	0	0		0	0		0	1
Z121	696378	6663903	0	0		0	0		3	23
Z122	696597	6664110	0	0		0	0		0	0
Z123	696784	6664322	0	0		50	95		53	123
Z124	696186	6663651	0	0		4	12		0	1
Z125	695922	6663471	0	0		6	14		4	14
Z126	696776	6663475	0	0		0	2		1	5
Z127	696993	6663711	0	0		0	0		104	125
Z128	697201	6663900	0	0		8	29		73	172
Z129	696600	6663249	0	0		55	75		145	125
Z130	696335	6663118	0	0		22	46		11	23
Z131	697414	6662936	319	611		1	4		14	21
Z132	697505	6663287	0	0		23	39		1	3
Z133	697751	6663333	0	0		56	68		0	0
Z134	697008	6662803	0	0		4	7		0	0
Z135	696770	6662625	0	0		0	7		0	0
Z136	697636	6662560	0	0		0	0		0	0
Z137	697763	6662910	0	0		108	200		580	370
Z138	698098	6663148	0	0		48	68		0	1
Z139	697465	6662361	1166	888		37	70		54	41
Z140	697050	6662409	1392	777		26	44		14	12
Z141	698104	6662034	0	0		0	0		0	0
Z142	698264	6662359	387	388		614	371		95	48
Z143	698512	6662587	0	0		41	66		1154	474
Z144	697934	6661867	132	444		5	17		7	17
Z145	697661	6661768	134	166		0	2		2	8
Z146	698521	6661766	0	0		0	0		0	0
Z147	698721	6661999	0	0		0	0		0	1
Z148	698946	6662203	0	0		0	0		0	0
Z149	698489	6661534	0	0		0	0		0	0
Z150	698156	6661322	12	55		111	83		0	0
Z151	699043	6661474	0	0		172	229		178	241
Z152	699241	6661690	0	0		0	0		3	10
Z153	699473	6661875	0	0		1	7		0	1
Z154	698834	6661263	0	0		12	22		0	0
Z155	698660	6661021	0	0		7	12		15	50
Z156	699573	6661175	0	0		0	0		0	0
Z157	699718	6661437	0	0		0	0		0	0
Z158	699867	6661691	0	0		0	0		0	0
Z159	699428	6660915	116	500		9	34		5	12
Z160	699354	6660635	0	0		5	9		0	0
Z161	700149	6660964	1248	833		6	17		40	28
Z162	700295	6661217	1230	777		106	80		37	41
Z163	700444	6661492	0	0		0	9		0	0
Z164	700020	6660689	0	0		0	0		0	0
Z165	699864	6660427	0	0		22	46		5	12
Z166	701002	6661256	0	0		0	0		5	10
Z167	700860	6660991	0	0		0	0		0	0
Z168	700723	6660711	252	166		63	70		5	12
Z169	700566	6660466	0	0		136	102		22	43
Z170	700427	6660205	0	0		2	7		15	34
Z171	701274	6660436	0	0		0	0		0	0

Field Name	X	Y	EDIAC_L1.005 Template			EDIAC_L2.004 template			Bonaparte.012 Template	
			Std SDP SUM	Std SDP COUNT		Std SDP SUM	Std SDP COUNT		Std SDP SUM	Std SDP COUNT
Z172	701144	6660178	0	0		41	61		156	177
Z173	700978	6659921	0	0		0	0		55	64
Z174	701435	6660702	0	0		0	0		0	0
Z175	701586	6660968	0	0		0	2		7	25
Z176	701903	6660152	10	55		9	48		89	157
Z177	702054	6660419	0	0		1	7		16	48
Z178	702223	6660655	0	0		0	0		8	26
Z179	701741	6659873	0	0		0	2		3	8
Z180	701597	6659638	199	333		417	427		82	73
Z181	702446	6659874	0	0		587	449		528	340
Z182	702610	6660113	0	0		1	2		0	0
Z183	702749	6660393	0	0		40	56		77	96
Z184	702292	6659619	0	0		0	2		0	1
Z185	702151	6659359	1054	722		964	464		216	100
Z186	702979	6659578	0	0		143	173		228	306
Z187	703172	6659812	0	0		0	0		0	0
Z188	703301	6660088	0	0		0	0		0	0
Z189	702858	6659314	283	722		4	17		3	5
Z190	702767	6659125	0	0		0	2		0	1
Z191	703522	6659274	0	0		5	19		2	8
Z192	703689	6659514	3	111		23	53		1	7
Z193	703829	6659783	0	0		20	51		8	19
Z194	703366	6659019	0	0		0	4		0	0
Z195	703224	6658755	0	0		0	0		0	0
Z196	704042	6658964	0	0		0	0		0	0
Z197	704209	6659197	0	0		85	178		72	154
Z198	704362	6659482	0	0		0	0		0	0
Z199	703903	6658709	0	0		0	0		0	0
Z200	703752	6658455	0	0		0	0		0	0
Z201	704563	6658667	2	55		0	0		0	3
Z202	704700	6658934	147	500		33	61		1	5
Z203	704840	6659141	807	611		23	44		4	10
Z204	704414	6658411	0	0		50	110		123	152
Z205	704267	6658152	0	0		0	0		3	7
Z206	705098	6658369	0	0		9	41		0	1
Z207	705242	6658619	0	0		0	4		6	19
Z208	705386	6658888	0	0		2	12		0	0
Z209	704939	6658099	0	0		0	0		0	0
Z210	704798	6657843	0	0		114	205		0	0
Z211	705607	6658064	0	0		0	0		0	0
Z212	705772	6658314	0	0		6	22		0	5
Z213	705919	6658581	0	0		0	0		0	0
Z214	705464	6657805	0	0		4	12		63	114
Z215	705323	6657532	5	55		1	12		6	8
Z216	706136	6657751	0	0		0	0		0	0
Z217	706279	6658010	2101	833		29	31		15	17
Z218	706442	6658269	0	0		0	0		0	0
Z219	705992	6657486	0	0		0	0		0	0
Z220	705880	6657194	0	0		0	0		7	17
Z221	706619	6657394	0	0		0	2		0	0
Z222	706767	6657653	179	166		32	63		84	111
Z223	706948	6657899	0	0		0	7		0	0
Z224	706469	6657131	0	0		0	0		0	0
Z225	706315	6656883	0	0		0	2		0	0
Z226	707107	6657019	0	0		1	9		6	19
Z227	707267	6657279	0	0		0	0		0	0
Z228	707426	6657563	0	0		47	92		56	78
Z229	706957	6656769	0	0		0	0		0	0
Z230	706815	6656493	0	0		0	0		0	1

Field Name	X	Y	EDIAC_L1.005 Template			EDIAC_L2.004 template			Bonaparte.012 Template	
			Std SDP SUM	Std SDP COUNT		Std SDP SUM	Std SDP COUNT		Std SDP SUM	Std SDP COUNT
Z231	707587	6656646	0	0		0	7		2	10
Z232	707731	6656913	0	0		0	2		67	129
Z233	707873	6657183	0	0		175	102		25	34
Z234	707420	6656401	0	0		38	53		2442	681
Z235	707311	6656121	0	0		1	14		0	1
Z236	708071	6656272	0	0		480	246		231	173
Z237	707905	6656010	0	0		30	61		106	134
Z238	707758	6655754	0	0		11	26		89	121
Z239	708199	6656539	0	0		0	0		67	130
Z240	708365	6656783	0	0		9	34		74	107
Z241	706070	6656442	0	0		1	7		0	3
Z242	705796	6656024	0	0		0	2		0	0
Z243	705584	6655576	0	0		0	0		0	0
Z244	705322	6655176	0	0		10	46		0	0
Z245	705083	6654713	0	0		0	0		0	0
Z246	704812	6654289	0	0		12	26		74	123
Z247	704600	6653832	913	777		17	34		1	5
Z248	704291	6653435	0	0		0	0		0	0
Z249	689490	6673923	0	0		0	0		2	3
Z250	689041	6673694	0	0		6	14		21	48
Z251	688616	6673447	0	0		0	0		0	0
Z252	688167	6673193	37	55		1	14		31	78
Z253	687720	6672985	0	0		11	34		48	143
Z254	687374	6672847	0	0		148	156		1767	598
Z255	686910	6672536	21	55		12	7		102	44
Z256	695488	6663410	0	0		0	0		0	0
Z257	695235	6662864	0	0		0	0		0	1
Z258	695015	6662504	0	0		0	0		0	0
Z259	694722	6661892	0	0		0	4		0	0
Z260	694531	6661565	0	0		0	0		0	0
Z261	694128	6661064	0	0		37	75		122	241
Z262	693884	6660653	0	0		0	0		0	0
Z263	693778	6660124	0	0		27	75		4	8
Z264	693754	6659737	0	0		0	0		0	0
Z265	693396	6659303	0	0		0	2		2	8

Appendix C – Arthur Hill Traverse Batch 169 SDP Anomaly Results – Petroleum Templates

Field Name	X	Y	Unbiased Template			Campo template			Castenada Template	
			Std SDP Sum	Std SDP Count		Std SDP Sum	Std SDP Count		Std SDP Sum	Std SDP Count
Y001	721809	6715524	0	2		0	0		0	0
Y002	721539	6715056	6	14		13	17		0	0
Y003	721291	6714641	0	3		0	2		0	2
Y004	721036	6714217	39	55		13	22		0	4
Y005	720810	6713823	849	463		1445	678		3323	947
Y006	720521	6713340	36	45		0	2		0	0
Y007	720074	6712854	114	111		27	24		0	0
Y008	719868	6712488	0	2		0	0		0	0
Y009	719605	6712043	0	1		0	0		0	0
Y010	719456	6711648	0	1		0	2		0	0
Y011	719147	6711275	0	0		0	0		0	0
Y012	718855	6710818	24	32		19	28		0	0
Y013	718736	6710322	0	0		0	0		0	0
Y014	718333	6709886	0	3		0	1		0	0
Y015	718088	6709459	1	5		0	1		0	0
Y016	718056	6709045	12	52		0	2		0	0
Y017	717735	6708581	8	20		0	0		0	0
Y018	717470	6708173	176	224		33	71		0	0
Y019	717291	6707680	21	45		0	0		0	0
Y020	717123	6707198	0	1		0	0		0	0
Y021	717002	6706776	2	9		0	0		0	0
Y022	716878	6706313	545	435		394	369		740	554
Y023	716702	6705812	284	308		155	190		71	154
Y024	716595	6705316	13	48		2	15		0	9
Y025	716438	6704791	33	94		0	1		0	0
Y026	716319	6704310	1	2		0	0		0	0
Y027	716164	6703903	112	178		7	19		0	4
Y028	716035	6703397	72	184		12	43		0	3
Y029	715910	6702922	123	185		34	64		0	0
Y030	715767	6702381	0	0		0	0		0	0
Y031	715500	6701969	234	226		22	38		0	0
Y032	715450	6701415	0	0		0	0		0	0
Y033	715240	6701013	0	1		0	0		0	0
Y034	715222	6700479	135	148		25	29		0	0
Y035	714886	6700005	0	2		0	0		0	0
Y036	714791	6699563	3	11		0	0		0	0
Y037	714807	6698984	11	15		2	5		0	0
Y038	714667	6698586	61	58		135	109		13	31
Y039	714120	6698168	0	4		0	0		0	0
Y040	713882	6697742	32	82		23	74		8	45
Y041	713769	6697209	0	0		0	0		0	0
Y042	713566	6696728	5	8		3	7		0	2
Y043	713265	6696125	4	17		6	18		2	9
Y044	713099	6695753	14	31		4	18		0	5
Y045	712967	6695396	9	8		3	4		0	0
Y046	712825	6694932	1	3		0	0		0	0
Y047	712643	6694512	69	166		7	30		15	76
Y048	712427	6693950	0	1		0	3		0	0
Y049	712302	6693477	0	0		0	0		0	1
Y050	712101	6693036	0	0		0	0		0	2
Y051	711849	6692498	0	0		0	0		0	0
Y052	711675	6692184	613	396		1191	613		1155	673
Y053	711452	6691666	0	4		2	10		0	0

Field Name	X	Y	Unbiased Template			Campo template			Castenada Template	
			Std SDP Sum	Std SDP Count		Std SDP Sum	Std SDP Count		Std SDP Sum	Std SDP Count
Y054	711221	6691212	106	83		296	159		352	147
Y055	711116	6690765	77	142		241	347		166	284
Y056	710744	6690352	4	10		5	11		0	0
Y057	710425	6689850	31	46		52	73		32	54
Y058	710100	6689584	0	0		0	0		0	0
Y059	709921	6689160	1	4		0	0		0	0
Y060	709611	6688655	0	0		0	0		0	0
Y061	709485	6688065	88	163		119	229		62	163
Y062	709219	6687769	34	55		62	76		0	0
Y063	708834	6687324	1	6		1	6		0	0
Y064	708585	6686969	26	71		45	136		2	19
Y065	708211	6686447	1	4		0	0		0	0
Y066	707973	6686077	5	10		11	18		0	0
Y067	707591	6685715	8	18		16	39		6	34
Y068	707396	6685279	14	25		17	27		0	0
Y069	706993	6684823	2	7		1	7		0	0
Y070	706748	6684473	6	13		14	24		0	1
Y071	706488	6683992	0	1		0	1		0	0
Y072	706140	6683594	99	213		220	420		212	359
Y073	705777	6683192	0	3		0	0		0	0
Y074	705504	6682848	3	6		1	1		0	0
Y075	705111	6682437	0	1		0	0		0	0
Y076	704742	6682100	0	0		0	0		0	0
Y077	704506	6681728	0	2		0	0		0	0
Y078	704307	6681253	82	107		202	259		12	28
Y079	703866	6680899	8	24		17	48		21	49
Y080	703709	6680461	28	46		47	73		8	40
Y081	703219	6680097	0	1		0	0		0	0
Y082	702949	6679685	40	101		122	231		31	115
Y083	702869	6679238	0	2		0	0		0	0
Y084	702973	6678605	9	18		20	34		0	0

Appendix D – Arthur Hill Traverse Batch 169 SDP Anomaly Results – Sediment Hosted Mineral Deposit Templates

Field Name	X	Y	EDIAC_L1.005 Template			HYC Template	
			Std SDP SUM	Std SDP COUNT		Std SDP SUM	Std SDP COUNT
Y001	721809	6715524	0	0		0	0
Y002	721539	6715056	0	0		26	68
Y003	721291	6714641	0	0		12	51
Y004	721036	6714217	0	0		25	103
Y005	720810	6713823	0	0		591	482
Y006	720521	6713340	0	0		71	51
Y007	720074	6712854	404	444		42	34
Y008	719868	6712488	0	0		0	0
Y009	719605	6712043	0	0		0	0
Y010	719456	6711648	0	0		0	0
Y011	719147	6711275	0	0		0	0
Y012	718855	6710818	17	55		2	17
Y013	718736	6710322	0	0		0	0
Y014	718333	6709886	0	0		0	0
Y015	718088	6709459	0	0		0	0
Y016	718056	6709045	20	111		0	0
Y017	717735	6708581	35	55		22	34
Y018	717470	6708173	641	833		19	51
Y019	717291	6707680	103	111		49	51
Y020	717123	6707198	0	0		135	155
Y021	717002	6706776	38	111		0	0
Y022	716878	6706313	418	555		219	310
Y023	716702	6705812	1053	833		391	310
Y024	716595	6705316	0	0		116	258
Y025	716438	6704791	118	444		17	51
Y026	716319	6704310	0	0		50	51
Y027	716164	6703903	246	555		54	86
Y028	716035	6703397	207	555		88	258
Y029	715910	6702922	770	833		140	189
Y030	715767	6702381	0	0		0	0
Y031	715500	6701969	1413	1000		161	206
Y032	715450	6701415	0	0		0	0
Y033	715240	6701013	0	0		0	0
Y034	715222	6700479	1129	888		90	172
Y035	714886	6700005	0	0		15	34
Y036	714791	6699563	0	0		6	17
Y037	714807	6698984	0	0		7	17
Y038	714667	6698586	0	0		86	51
Y039	714120	6698168	0	0		0	0
Y040	713882	6697742	0	0		35	103
Y041	713769	6697209	0	0		0	0
Y042	713566	6696728	0	0		0	0
Y043	713265	6696125	0	0		17	86
Y044	713099	6695753	0	0		0	0
Y045	712967	6695396	0	0		0	0
Y046	712825	6694932	0	0		0	0
Y047	712643	6694512	38	55		297	396
Y048	712427	6693950	0	0		9	68
Y049	712302	6693477	0	0		0	0
Y050	712101	6693036	0	0		0	0
Y051	711849	6692498	0	0		0	0
Y052	711675	6692184	0	0		197	103

Field Name	X	Y	EDIAC_L1.005 Template			HYC Template	
			Std SDP SUM	Std SDP COUNT		Std SDP SUM	Std SDP COUNT
Y053	711452	6691666	0	0		9	34
Y054	711221	6691212	1	55		163	206
Y055	711116	6690765	0	0		2	17
Y056	710744	6690352	0	0		0	0
Y057	710425	6689850	0	0		12	17
Y058	710100	6689584	0	0		0	0
Y059	709921	6689160	0	0		0	0
Y060	709611	6688655	0	0		0	0
Y061	709485	6688065	0	0		9	34
Y062	709219	6687769	0	0		11	17
Y063	708834	6687324	0	0		0	0
Y064	708585	6686969	0	0		47	68
Y065	708211	6686447	0	0		0	0
Y066	707973	6686077	0	0		0	0
Y067	707591	6685715	0	0		0	0
Y068	707396	6685279	0	0		0	0
Y069	706993	6684823	0	0		0	0
Y070	706748	6684473	13	166		5	17
Y071	706488	6683992	0	0		0	0
Y072	706140	6683594	0	0		32	103
Y073	705777	6683192	0	0		0	0
Y074	705504	6682848	0	0		0	0
Y075	705111	6682437	0	0		0	0
Y076	704742	6682100	0	0		0	0
Y077	704506	6681728	0	0		0	0
Y078	704307	6681253	0	0		8	17
Y079	703866	6680899	0	0		12	86
Y080	703709	6680461	0	0		5	17
Y081	703219	6680097	0	0		1	34
Y082	702949	6679685	0	0		5	51
Y083	702869	6679238	0	0		0	0
Y084	702973	6678605	0	0		15	34


Silcrete Plain
Sand Dunes
Silcrete Plain
Breakaway
680000 mE
685000 mE
690000 mE
695000 mE
700000 mE
705000 mE
710000 mE
715000 mE
6680000 mN
6675000 mN
6670000 mN
6665000 mN
6660000 mN
6655000 mN
N
Tasman Resources Limited
Date:15/6/2005
Author: MG
Office:
Drawing:
Torrens Hinge Project
SDP Sample Locations
Scale: 1:50000
Projection: AMG Zone 53 (AGD 84)
0
1.5
3
kilometres
Autogrid
Torrenssdp

SAMPLE_NO	E_AGD84	N_AGD84	DATE	SAMPLER	TENEMENT	GEOMORPHOLOGY	SUBCROP GEOLOGY
Z001	689142	6676545	20-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z002	689416	6676673	20-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z003	689677	6676817	20-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z004	688876	6676413	20-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z005	688658	6676204	20-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z006	689467	6676024	20-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z007	689721	6676158	20-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z008	690059	6676213	20-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z009	689202	6675887	20-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z010	688942	6675748	20-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z011	689775	6675533	20-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z012	690026	6675648	20-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z013	690284	6675788	20-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z014	689450	6675361	20-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z015	689261	6675233	20-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z016	690116	6674973	20-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z017	690382	6675094	20-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z018	690640	6675271	20-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z019	689843	6674841	20-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z020	689579	6674711	20-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z021	690473	6674405	19-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z022	690734	6674546	20-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z023	691005	6674687	20-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z024	690200	6674271	20-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z025	689940	6674133	20-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z026	690754	6673787	21-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z027	691018	6673915	21-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z028	691281	6674066	21-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z029	690473	6673640	21-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z030	690242	6673459	21-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z031	690967	6673226	21-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z032	691210	6673405	21-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z033	691498	6673511	21-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z034	690701	6673086	21-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z035	690443	6672925	21-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z036	691269	6672650	21-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z037	691532	6672789	21-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z038	691777	6672962	21-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z039	691008	6672493	21-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z040	690775	6672390	21-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z041	691642	6672178	21-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z042	691902	6672311	21-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z043	692168	6672456	21-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z044	691363	6672055	21-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z045	691109	6671868	21-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z046	692009	6671712	21-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z047	692274	6671855	21-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z048	692545	6671978	21-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z049	691745	6671555	21-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z050	691459	6671439	21-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z051	692301	6671182	21-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z052	692584	6671306	21-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z053	692823	6671467	21-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z054	692036	6671050	21-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z055	691758	6670918	22-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z056	692521	6670655	22-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z057	692785	6670789	22-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z058	693048	6670934	22-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z059	692244	6670518	22-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z060	691909	6670303	22-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z061	692757	6670114	22-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z062	693028	6670250	27-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z063	693314	6670380	22-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z064	692459	6669960	22-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z065	692235	6669838	27-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z066	692872	6669399	27-May-05	MG/PG	EL3109	Silcrete Plain	Bull Dog Shale
Z067	693315	6669729	27-May-05	MG/PG	EL3109	Sand Dunes	Sand/Bull Dog Shale
Z068	693485	6669914	27-May-05	MG/PG	EL3109	Sand Dunes	Sand/Bull Dog Shale
Z069	692644	6669327	27-May-05	MG/PG	EL3109	Sand Dunes	Sand/Bull Dog Shale
Z070	692496	6669131	27-May-05	MG/PG	EL3109	Sand Dunes	Sand/Bull Dog Shale
Z071	693188	6668987	27-May-05	MG/PG	EL3109	Sand Dunes	Sand/Bull Dog Shale
Z072	693464	6669122	27-May-05	MG/PG	EL3109	Sand Dunes	Sand/Bull Dog Shale
Z073	693771	6669287	27-May-05	MG/PG	EL3109	Sand Dunes	Sand/Bull Dog Shale
Z074	692907	6668995	27-May-05	MG/PG	EL3109	Sand Dunes	Sand/Bull Dog Shale
Z075	692723	6668573	27-May-05	MG/PG	EL3109	Sand Dunes	Sand/Bull Dog Shale
Z076	693722	6668581	27-May-05	MG/PG	EL3109	Sand Dunes	Sand/Bull Dog Shale
Z077	693970	6668740	27-May-05	MG/PG	EL3109	Sand Dunes	Sand/Bull Dog Shale
Z078	693457	6668446	27-May-05	MG/PG	EL3109	Sand Dunes	Sand/Bull Dog Shale
Z079	693177	6668313	27-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z080	692919	6668168	27-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z081	693793	6667842	27-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z082	694012	6668165	28-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale

SAMPLE_NO	E_AGD84	N_AGD84	DATE	SAMPLER	TENEMENT	GEOMORPHOLOGY	SUBCROP GEOLOGY
Z083	694280	6668329	28-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z084	693458	6667779	28-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z085	693232	6667594	28-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z086	694042	6667331	28-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z087	694378	6667430	28-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z088	694547	6667580	28-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z089	693767	6667197	28-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z090	693499	6667046	28-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z091	694873	6667099	28-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z092	694532	6667040	28-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z093	694293	6666902	28-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z094	694101	6666610	28-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z095	693807	6666549	28-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z096	694615	6666235	28-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z097	694883	6666401	28-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z098	695138	6666547	28-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z099	694304	6666125	28-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z100	694059	6665969	28-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z101	694927	6665658	28-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z102	695141	6665872	29-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z103	695403	6666018	29-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z104	694646	6665597	29-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z105	694380	6665454	29-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z106	695151	6665187	29-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z107	694881	6665036	29-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z108	694537	6664920	29-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z109	695410	6665328	29-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z110	695684	6665468	29-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z111	695584	6664739	29-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z112	695828	6664878	18-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z113	696115	6665020	18-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z114	695278	6664568	19-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z115	695009	6664456	19-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z116	696010	6664326	19-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z117	696174	6664534	19-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z118	696389	6664742	19-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z119	695763	6664100	19-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z120	695540	6663903	19-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z121	696378	6663903	19-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z122	696597	6664110	19-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z123	696784	6664322	19-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z124	696186	6663651	19-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z125	695922	6663471	22-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z126	696776	6663475	22-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z127	696993	6663711	22-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z128	697201	6663900	22-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z129	696600	6663249	22-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z130	696335	6663118	22-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z131	697414	6662936	22-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z132	697505	6663287	22-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z133	697751	6663333	22-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z134	697008	6662803	22-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z135	696770	6662625	22-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z136	697636	6662560	22-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z137	697763	6662910	23-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z138	698098	6663148	23-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z139	697465	6662361	23-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z140	697050	6662409	23-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z141	698104	6662034	23-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z142	698264	6662359	23-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z143	698512	6662587	23-May-05	MG/PG	EL3209	Edge Breakaway	Bull Dog Shale
Z144	697934	6661867	23-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z145	697661	6661768	23-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z146	698521	6661766	23-May-05	MG/PG	EL3209	Silcrete Plain	Bull Dog Shale
Z147	698721	6661999	23-May-05	MG/PG	EL3209	Silcrete Plain	Bull Dog Shale
Z148	698946	6662203	23-May-05	MG/PG	EL3209	Silcrete Plain	Bull Dog Shale
Z149	698489	6661534	23-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z150	698156	6661322	23-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z151	699043	6661474	23-May-05	MG/PG	EL3209	Silcrete Plain	Bull Dog Shale
Z152	699241	6661690	23-May-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z153	699473	6661875	23-May-05	MG/PG	EL3209	Silcrete Plain	Bull Dog Shale
Z154	698834	6661263	23-May-05	MG/PG	EL3209	Silcrete Plain	Bull Dog Shale
Z155	698660	6661021	23-May-05	MG/PG	EL3209	Silcrete Plain	Bull Dog Shale
Z156	699573	6661175	23-May-05	MG/PG	EL3209	Silcrete Plain	Bull Dog Shale
Z157	699718	6661437	23-May-05	MG/PG	EL3209	Silcrete Plain	Bull Dog Shale
Z158	699867	6661691	23-May-05	MG/PG	EL3209	Silcrete Plain	Bull Dog Shale
Z159	699428	6660915	24-May-05	MG/PG	EL3209	Silcrete Plain	Bull Dog Shale
Z160	699354	6660635	23-May-05	MG/PG	EL3209	Silcrete Plain	Bull Dog Shale
Z161	700149	6660964	23-May-05	MG/PG	EL3209	Silcrete Plain	Bull Dog Shale
Z162	700295	6661217	23-May-05	MG/PG	EL3209	Silcrete Plain	Bull Dog Shale
Z163	700444	6661492	23-May-05	MG/PG	EL3209	Silcrete Plain	Bull Dog Shale
Z164	700020	6660689	23-May-05	MG/PG	EL3209	Silcrete Plain	Bull Dog Shale

SAMPLE_NO	E_AGD84	N_AGD84	DATE	SAMPLER	TENEMENT	GEOMORPHOLOGY	SUBCROP GEOLOGY
Z165	699864	6660427	23-May-05	MG/PG	EL3209	Silcrete Plain	Bull Dog Shale
Z166	701002	6661256	23-May-05	MG/PG	EL3209	Silcrete Plain	Bull Dog Shale
Z167	700860	6660991	24-May-05	MG/PG	EL3209	Silcrete Plain	Bull Dog Shale
Z168	700723	6660711	24-May-05	MG/PG	EL3209	Silcrete Plain	Bull Dog Shale
Z169	700566	6660466	24-May-05	MG/PG	EL3209	Silcrete Plain	Bull Dog Shale
Z170	700427	6660205	25-May-05	MG/PG	EL3209	Silcrete Plain	Bull Dog Shale
Z171	701274	6660436	25-May-05	MG/PG	EL3209	Silcrete Plain	Bull Dog Shale
Z172	701144	6660178	24-May-05	MG/PG	EL3209	Silcrete Plain	Bull Dog Shale
Z173	700978	6659921	26-May-05	MG/PG	EL3209	Silcrete Plain	Bull Dog Shale
Z174	701435	6660702	25-May-05	MG/PG	EL3209	Silcrete Plain	Bull Dog Shale
Z175	701586	6660968	24-May-05	MG/PG	EL3209	Silcrete Plain	Bull Dog Shale
Z176	701903	6660152	24-May-05	MG/PG	EL3209	Scree slope down breakaway	Bull Dog Shale
Z177	702054	6660419	24-May-05	MG/PG	EL3209	Silcrete Plain	Bull Dog Shale
Z178	702223	6660655	26-May-05	MG/PG	EL3209	Silcrete Plain	Bull Dog Shale
Z179	701741	6659873	26-May-05	MG/PG	EL3209	Scree slope below breakaway	Bull Dog Shale
Z180	701597	6659638	24-May-05	MG/PG	EL3209	Scree slope below breakaway	Bull Dog Shale
Z181	702446	6659874	24-May-05	MG/PG	EL3209		Bull Dog Shale
Z182	702610	6660113	24-May-05	MG/PG	EL3209	Base of breakaway	Bull Dog Shale
Z183	702749	6660393	24-May-05	MG/PG	EL3209	Silcrete Plain at top of breakaway	Bull Dog Shale
Z184	702292	6659619	26-May-05	MG/PG	EL3209	Scree slope down breakaway	Bull Dog Shale
Z185	702151	6659359	24-May-05	MG/PG	EL3209	Scree slope down breakaway	Bull Dog Shale
Z186	702979	6659578	24-May-05	MG/PG	EL3209	Floodplain below breakaway	Bull Dog Shale
Z187	703172	6659812	24-May-05	MG/PG	EL3209	Scree slope below breakaway	Bull Dog Shale
Z188	703301	6660088	26-May-05	MG/PG	EL3209	Silcrete Plain at top of breakaway	Bull Dog Shale
Z189	702858	6659314	26-May-05	MG/PG	EL3209	Scree slope below breakaway	Bull Dog Shale
Z190	702767	6659125	24-May-05	MG/PG	EL3209	Scree slope down breakaway	Bull Dog Shale
Z191	703522	6659274	24-May-05	MG/PG	EL3209	Scree slope below breakaway	Bull Dog Shale
Z192	703689	6659514	24-May-05	MG/PG	EL3209	Scree slope below breakaway	Bull Dog Shale
Z193	703829	6659783	24-May-05	MG/PG	EL3209	Silcrete Plain at top of breakaway	Bull Dog Shale
Z194	703366	6659019	24-May-05	MG/PG	EL3209	Silcrete Plain below Breakaway	?
Z195	703224	6658755	24-May-05	MG/PG	EL3209	Silcrete Plain below Breakaway	?
Z196	704042	6658964	24-May-05	MG/PG	EL3209	Silcrete Plain below Breakaway	?
Z197	704209	6659197	24-May-05	MG/PG	EL3209	Silcrete Plain below Breakaway at edge of floodplain	?
Z198	704362	6659482	24-May-05	MG/PG	EL3209	Silcrete Plain below Breakaway	?
Z199	703903	6658709	24-May-05	MG/PG	EL3209	Silcrete Plain below Breakaway	?
Z200	703752	6658455	24-May-05	MG/PG	EL3209	Silcrete Plain below Breakaway	?
Z201	704563	6658667	24-May-05	MG/PG	EL3209	Silcrete Plain below Breakaway	?
Z202	704700	6658934	25-May-05	MG/PG	EL3209	Silcrete Plain below Breakaway	?
Z203	704840	6659141	25-May-05	MG/PG	EL3209	Silcrete Plain below Breakaway	?
Z204	704414	6658411	25-May-05	MG/PG	EL3209	Silcrete Plain below Breakaway	?
Z205	704267	6658152	25-May-05	MG/PG	EL3209	Silcrete Plain below Breakaway	?
Z206	705098	6658369	25-May-05	MG/PG	EL3209	Silcrete Plain below Breakaway	?
Z207	705242	6658619	25-May-05	MG/PG	EL3209	Silcrete Plain below Breakaway	?
Z208	705386	6658888	25-May-05	MG/PG	EL3209	Silcrete Plain below Breakaway	Yarrawurta Shale
Z209	704939	6658099	25-May-05	MG/PG	EL3209	Silcrete Plain below Breakaway	Yarrawurta Shale?
Z210	704798	6657843	25-May-05	MG/PG	EL3209	Silcrete Plain below Breakaway	Yarrawurta Shale?
Z211	705607	6658064	25-May-05	MG/PG	EL3209	Silcrete Plain below Breakaway	Yarrawurta Shale?
Z212	705772	6658314	25-May-05	MG/PG	EL3209	Silcrete Plain below Breakaway	Yarrawurta Shale?
Z213	705919	6658581	25-May-05	MG/PG	EL3209	Silcrete Plain below Breakaway	Yarrawurta Shale?
Z214	705464	6657805	25-May-05	MG/PG	EL3209	Silcrete Plain below Breakaway	Yarrawurta Shale?
Z215	705323	6657532	25-May-05	MG/PG	EL3209	Silcrete Plain below Breakaway	Yarrawurta Shale?
Z216	706136	6657751	25-May-05	MG/PG	EL3209	Silcrete Plain below Breakaway	Yarrawurta Shale?
Z217	706279	6658010	25-May-05	MG/PG	EL3209	Silcrete Plain below Breakaway	Yarrawurta Shale?
Z218	706442	6658269	25-May-05	MG/PG	EL3209	Silcrete Plain below Breakaway	Yarrawurta Shale?
Z219	705992	6657486	25-May-05	MG/PG	EL3209	Silcrete Plain below Breakaway	Yarrawurta Shale?
Z220	705880	6657194	25-May-05	MG/PG	EL3209	Silcrete Plain below Breakaway	Yarrawurta Shale?
Z221	706619	6657394	25-May-05	MG/PG	EL3209	Silcrete Plain below Breakaway	Yarrawurta Shale?
Z222	706767	6657653	26-May-05	MG/PG	EL3209	Silcrete Plain below Breakaway	Yarrawurta Shale?
Z223	706948	6657899	26-May-05	MG/PG	EL3209	Silcrete Plain below Breakaway	Yarrawurta Shale?
Z224	706469	6657131	26-May-05	MG/PG	EL3209	Silcrete Plain below Breakaway	Yarrawurta Shale?
Z225	706315	6656883	26-May-05	MG/PG	EL3209	Silcrete Plain below Breakaway	Yarrawurta Shale?
Z226	707107	6657019	26-May-05	MG/PG	EL3209	Silcrete Plain below Breakaway	Yarrawurta Shale?
Z227	707267	6657279	26-May-05	MG/PG	EL3209	Silcrete Plain below Breakaway	Yarrawurta Shale?
Z228	707426	6657563	26-May-05	MG/PG	EL3209	Silcrete Plain below Breakaway	Yarrawurta Shale?
Z229	706957	6656769	26-May-05	MG/PG	EL3209	Silcrete Plain below Breakaway	Yarrawurta Shale?
Z230	706815	6656493	26-May-05	MG/PG	EL3209	Silcrete Plain below Breakaway	Yarrawurta Shale?
Z231	707587	6656646	26-May-05	MG/PG	EL3209	Weathered Yarrawurta Shale	Yarrawurta Shale
Z232	707731	6656913	26-May-05	MG/PG	EL3209	Soft Gypsiferous soil	Yarrawurta Shale?
Z233	707873	6657183	26-May-05	MG/PG	EL3209	Floodplain below breakaway	Yarrawurta Shale?
Z234	707420	6656401	26-May-05	MG/PG	EL3209	Weathered Yarrawurta Shale	Yarrawurta Shale
Z235	707311	6656121	26-May-05	MG/PG	EL3209	Weathered Yarrawurta Shale	Yarrawurta Shale
Z236	708071	6656272	26-May-05	MG/PG	EL3209	Soft Gypsiferous soil	Yarrawurta Shale?
Z237	707905	6656010	25-May-05	MG/PG	EL3209	Soft Gypsiferous soil	Yarrawurta Shale?
Z238	707758	6655754	25-May-05	MG/PG	EL3209	Soft Gypsiferous soil	Yarrawurta Shale?
Z239	708199	6656539	25-May-05	MG/PG	EL3209	Soft Gypsiferous soil	Yarrawurta Shale?
Z240	708365	6656783	25-May-05	MG/PG	EL3209	Silcrete Plain below Breakaway	Yarrawurta Shale?
Z241	706070	6656442	25-May-05	MG/PG	EL3209	Silcrete Plain below Breakaway	Yarrawurta Shale?
Z242	705796	6656024	25-May-05	MG/PG	EL3209	Silcrete Plain below Breakaway	Yarrawurta Shale?
Z243	705584	6655576	25-May-05	MG/PG	EL3209	Silcrete Plain below Breakaway	Yarrawurta Shale?
Z244	705322	6655176	25-May-05	MG/PG	EL3209	Silcrete Plain below Breakaway	Yarrawurta Shale?
Z245	705083	6654713	29-May-05	MG/PG	EL3209	Silcrete Plain below Breakaway	Yarrawurta Shale?
Z246	704812	6654289	29-May-05	MG/PG	EL3209	Silcrete Plain below Breakaway	Yarrawurta Shale?

SAMPLE_NO	E_AGD84	N_AGD84	DATE	SAMPLER	TENEMENT	GEOMORPHOLOGY	SUBCROP GEOLOGY
Z247	704600	6653832	29-May-05	MG/PG	EL3209	Silcrete Plain below Breakaway	Yarrawurta Shale?
Z248	704291	6653435	29-May-05	MG/PG	EL3209	Silcrete Plain below Breakaway	Yarrawurta Shale?
Z249	689490	6673923	29-May-05	MG/PG	EL3209	Silcrete Plain	Yarrawurta Shale?
Z250	689041	6673694	29-May-05	MG/PG	EL3209	Silcrete Plain	Yarrawurta Shale?
Z251	688616	6673447	29-May-05	MG/PG	EL3209	Silcrete Plain	Yarrawurta Shale?
Z252	688167	6673193	1-Jun-05	MG/PG	EL3209	Silcrete Plain	Yarrawurta Shale?
Z253	687720	6672985	1-Jun-05	MG/PG	EL3209	Silcrete Plain	Yarrawurta Shale?
Z254	687374	6672847	1-Jun-05	MG/PG	EL3209	Silcrete Plain	Yarrawurta Shale?
Z255	686910	6672536	1-Jun-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z256	695488	6663410	2-Jun-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z257	695235	6662864	2-Jun-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z258	695015	6662504	2-Jun-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z259	694722	6661892	2-Jun-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z260	694531	6661565	2-Jun-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z261	694128	6661064	2-Jun-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z262	693884	6660653	2-Jun-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z263	693778	6660124	2-Jun-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z264	693754	6659737	2-Jun-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale
Z265	693396	6659303	2-Jun-05	MG/PG	EL3209	Sand Dunes	Sand/Bull Dog Shale