



## **Final Surrender Report**

### **Exploration Licence 23931**

***Holder: Legend International Holdings Inc.***

***Operator: Legend International Holdings Inc.***

***Reporting Period: 3<sup>rd</sup> February 2004 to 4<sup>th</sup> November 2011***

***Sheet Reference: Bauhinia Downs 1:250,000 (SE53-03)***

***Due Date: 4th January 2012***

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Date:	3 <sup>rd</sup> November 2011
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Copies To:	Dept. Resources - NT NADL

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## **SUMMARY**

*This Final Surrender Report outlines exploration activities undertaken by Legend International Holdings Inc. on Exploration Licence 23931 between the 3<sup>rd</sup> February 2004 and 4<sup>th</sup> November 2011.*

*EL 23931 is situated on the Bauhinia Downs (SE53-03) 1:250,000 geological mapsheet in the Batten Region of the Northern Territory and is located near old Bauhinia Downs homestead, approximately 75 kilometres west of Borroloola in the Gulf Region of the Northern Territory. The tenement lies in the central part of the Billengarra pastoral lease (administered by the Northern Territory Land Corporation) and is accessible via station tracks.*

*Field work completed during the reporting period included collection of 4 stream, gravel and loam HMA samples, EM Surveys and detailed data reviews to identify future sampling sites.*

## 1.0 INTRODUCTION

This report outlines exploration activities undertaken by Legend International Holdings Inc. on Exploration Licence 23931 between 3<sup>rd</sup> February 2004 and 4<sup>th</sup> November 2011.

## 2.0 LOCATION AND ACCESS

EL 23931 is situated on the Bauhinia Downs (SE53-03) 1:250,000 geological mapsheet in the Batten Region of the Northern Territory and is located near old Bauhinia Downs homestead, approximately 75 kilometres west of Borroloola in the Gulf Region of the Northern Territory. The tenement lies in the central part of the Billengarra pastoral lease (administered by the Northern Territory Land Corporation) and is accessible via station tracks.

## 3.0 LICENCE DETAILS

EL 23931 was granted on the 3<sup>rd</sup> February 2004. Initially, an application for waiver of reduction was granted. The tenement was compulsorily reduced in the subsequent years down to the 1 block it currently is. The Exploration License was renewed early in 2010 for a further 2 years. An SEL Application has been placed over EL22307 and EL23931 to join adjacent tenements and provide additional time for adequate exploration in the area.

*Table 1: Licence Details for EL23931.*

Name	Status	Effective Date	Grant Date	Expiry Date	Holder
EL23931	Granted	18/6/2003	3/2/2004	2/2/2012	Legend International Holdings Inc

## 4.0 GEOLOGY

EL 23931 lies within the Batten Trough of the Mesoproterozoic McArthur Basin. The N-S trending Tawallah Fault Zone is the largest scale structure in the district and it is regarded as having similar significance to the Emu Fault, which lies 40km east of the tenement and is associated with McArthur River Zn-Pb mine and the Merlin diamond mine, which lies 75km to the south east of the tenement.

The 1800-1400Ma stratigraphy and mineralisation of the Batten Trough, from youngest to oldest, can be summarised as follows:

- Roper Group arenites, shales, iron formations and dolerite sills.
- Nathan Group (or Mt Rigg Group) carbonates that host Zn-Pb mineralisation, eg, the Bulman Zn-Pb deposits.
- McArthur Group fine clastics and carbonates that host strata bound Zn-Pb-Ag and Cu deposits, eg, the HYC (McArthur) Zn-Pb-Ag mine, Batton Zn-Pb and Sly Creek Cu deposits.
- Tawallah Group arenites, black shales and basalts hosting Cu in the Redbank district and U at Westmoreland. There are also a number of Cu occurrences hosted Talwallah Group proximal to the McArthur Project area.

Proterozoic outcrops within the project area are predominantly McArthur Group.

## **5.0 EXPLORATION**

### **5.1 Previous Exploration**

A number of strata-bound and vein-hosted base metal occurrences hosted by Proterozoic sediments are located near the Scrutton Range which lies north of EL 23931 and this area also included in the Rio Tinto – DMA farm-in agreement. Several prospects, including Great Scott, Tanabur and Johnstone, lie within the tenement to the north.

A substantial amount of historical diamond exploration work has been carried out on and around the tenement. The main prospect identified to date is the Tanaburs Prospect (also known as Leila Creek) which was identified by Ashton in the 1990s. The prospect is actually located in the small excised block internal to EL 23931 however, the source of diamond and indicator mineral anomalies within the excised block may well be sourced from within EL 23931.

Tanaburs is centred on a 6km by 1.5km outlier (plateau) of Cretaceous sediments overlying Tawallah Group and McArthur Group. Ashton noted that the Cretaceous sediments contain fossilised wood fragments similar to those found on the Merlin plateau. The prospect overlies the major, N-S trending Four Archers Fault Zone.

Stream sediment, loam and bulk sampling for diamonds, geomorphological studies,

detailed airborne magnetics and drilling have been completed around the Tanaburs area. Macrodiamonds (up to 1.15 cts), a few microdiamonds and indicator minerals (chromite) were recovered from drainages sourced from the Cretaceous sedimentary plateau.

Four RAB drill holes, testing airborne magnetic, EM and geomorphic features, did not intersect kimberlite. Only one of these RAB holes (BHO675; 22m) is located within EL 23931. The other three are within the excised portion. Ashton considered that a small mafic dyke, in the north of the excised portion of EL 23931, was not the source of the diamonds and indicator minerals. Ashton carried out infill sampling and detailed airborne magnetic surveys in three other areas of EL 23931.

During year 1 of Rio Tinto's tenure, available geophysical and geochemical data was reviewed confirming the considerable potential for diamondiferous kimberlites.

Prior to the formalisation of the Exploration Agreement with DMA and Gravity, Rio Tinto gathered 19 rock chip samples in the tenement as part of its regional base metal reconnaissance program.

On the basis of the anomalous diamond and base metal results, a Falcon™ airborne gravity gradiometer survey was planned and flown in September 2003. In addition to the gravity gradiometer data, the Falcon™ system records total magnetic intensity and laser scanner data, which is used to construct a very accurate (1m vertical resolution) digital elevation model.

The Falcon™ system was developed by BHP Billiton in the late 1990s and has since shown a remarkable ability to detect kimberlite pipes. The survey was flown on north-south oriented lines, 100m apart at a height of 80m above ground level. It covered 23km<sup>2</sup> within the tenement

### **Work Completed 2004 - 2005**

Data processing as well as preliminary interpretation and targeting were completed during the reporting year. Initial target areas were defined and first pass field reconnaissance was

scheduled to commence in late 2004.

### **Work Completed 2005 - 2006**

Although no priority Falcon anomalies were identified within the area covered by EL23931, previous sampling has recovered numerous, repeatable chromite results from a small tributary within the headwaters of Ten Mile Creek. The origin of these chromite results has not been resolved. Previous explorers have suggested the chromite are not kimberlitic, with either volcanic rocks of the Tawallah group or secondary Cretaceous conglomerates cited as the likely source of these grains. Given that chromites from the Abner Range, some 70km to the south, where DMA discovered the ABN021 kimberlite in 2004, were similarly described, Gravity maintained the view that EL 23931 could contain kimberlites. A brief field reconnaissance program was conducted during the 2005 field season, but owing to deployment priorities being focused on the Abner Range discovery, access to desired sample sites was not achieved.

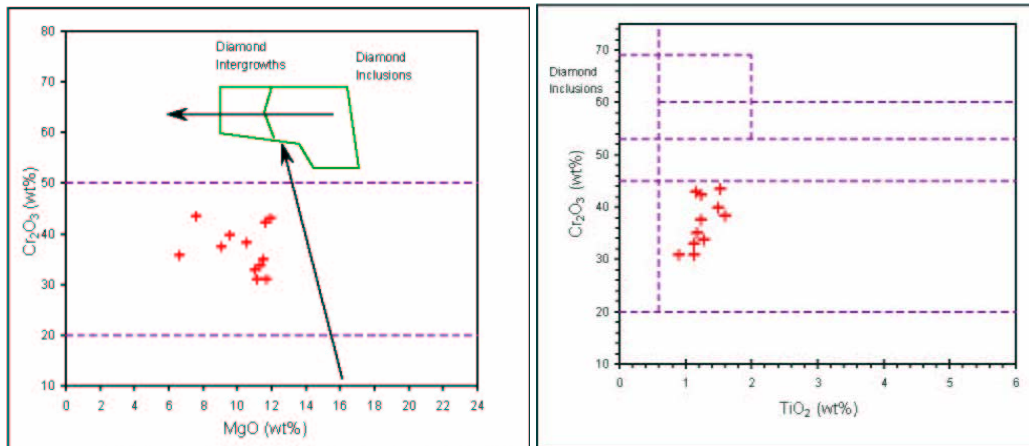
### **Work Completed 2006 - 2007**

During the 2006-2007 reporting period a single gravel sample (163937) was collected in the Ten Mile Creek tributary which had previously reported chromite. The sample was collected with the aim of recovering chromite grains for SEM analysis, as no probe data for previously recovered grains was available. Sample details are shown in Table 2 and Figure 2. Further details are contained in Appendix 1.

The gravel sample was sent to Diatech Laboratories in Perth for processing through a micro DMS plant and recovery of kimberlite indicator minerals from the -1.2mm +0.3mm fraction of the DMS concentrate. Recovered indicator mineral grains were probed by Dr Greg Pooley at the University of Western Australia using a JEOL 6400 SEM fitted with link EDS detection and digital pulse processor. A variety of stoichiometric oxides and silicates as well as pure metal standards are used to standardise the instrument, while several silicate and oxide standards are used to routinely check the quality of the data. This is performed prior to every analytical session or approximately every 1.5 hours.

Results from the sample collected during 2006 have been received, with 15 chromites recovered. Preliminary interpretation of the probe data indicates that the recovered grains

appeared unlikely to be sourced from a kimberlite, as illustrated in the  $\text{Cr}_2\text{O}_3$  vs  $\text{MgO}$  and  $\text{Cr}_2\text{O}_3$  vs  $\text{TiO}_2$  plots below.



### Work Completed 2007 - 2008

During the fourth year of tenure an airborne gravity anomaly with a weak to moderate magnetic signature (TAN016 anomaly) only 1.6 km southeast of the tenement (on a tenement under the Rio Tinto / Gravity exploration agreement) was loam sampled. The anomaly returned 2 chromites of unambiguous kimberlitic affinity and prompted an urgent reassessment of similar gravity / magnetic features on EL 23931, in particular in the source region of the drainage (Ten Mile Creek) that supplied the result reported in the 2007 Annual Report. The dataset was interrogated with the following products created or remodelled by Gravity staff members who had extensive experience with Falcon Gradiometer data

This reassessment highlighted a further six target areas with gravity anomalies of similar amplitude and coherency to the TAN016 anomaly within the neighbouring tenement EL 22307. Field assessment was carried out on each of these areas and each was assessed as being in an area of thick (>2.0m) alluvial sheetwash and minor colluvium. Several areas of Tertiary laterite were also noted although this may contain a large proportion of transported material. Access to the targets is difficult being in sandy swaley flat plains however unrehabilitated pastoral tracks exist in relative close proximity to several.

### Work Completed 2008 - 2009

During the 2008-2009 year of tenure plans were formulated to fly a helicopter-borne Falcon® gravity program covering the tenement. An unfortunate accident associated with the heliborne Falcon system, grounding the helicopter and system mid season led to the program being unable to



be implemented. With the onset of the global liquidity crisis further funding to carry out extensive ground based programs have proved unavailable. With the onset of the global financial crisis further funding to carry out extensive ground based programs have proved unavailable. The management of Gravity Diamonds Limited secured a commercial agreement with Legend International Holdings Inc.

Nonetheless reassessment of both the morphology and chemistry of the chromites recovered from this tenement area has been undertaken during the tenure year. Both the chemistry and morphology of recent and historic grains recovered and examined continue to be comparable to weathered grains recovered from the uppermost portions of the ABN021 kimberlite pipe.

### **Work Completed 2009 - 2010**

Legend completed a comprehensive open file review of the tenement and region. These studies identified the need for field studies and possible drilling. Field reconnaissance was conducted late in the sixth year with a view to replicate historic results in sampling and geophysics.

One stream sediment sample (ABH000066) was taken from a tributary located upstream of historic samples, and recovered one microdiamond and one chromite. Detailed examination of the microdiamond indicates it is of typically kimberlitic provenance, perhaps from the upper portions of a pipe.

A Ground EM-34 Survey was conducted in November 2009, over the majority of the northern part of the tenement and targeted the Flat Beat Creek, which drains into Ten Mile Creek further north. The initial phase was conducted using the 40m spacing cable and identified anomalous responses in the north-western corner which tend to mimick the creek systems.

Reassessment of both the morphology and chemistry of the chromites recovered from this tenement area was undertaken by Gravity as well as independently by Legend. Both the chemistry and morphology of recent and historic grains recovered and examined continued to be comparable to weathered grains recovered from the uppermost portions of the ABN021 kimberlite pipe and have similarities with grains derived from the low-grade EMU pipe closer to Merlin. Sample details are shown in Table 2 and Figure 2.

### **Work Completed 2010 – 2011**

Field reconnaissance exploration was conducted during the reporting period as well as Heavy Mineral Analysis (“HMA”) with 2 samples collected, 1 loam (ABH000103) and 1 stream

(ABH000104). After processing, both samples returned a negative result. A ground EM Survey was also conducted on a target area based on anomalism of either indicator distribution or geochemical signatures. Survey details are shown in Table 3 and the location is shown in Figure 3.

## **6.0 EXPENDITURE**

Exploration expenditure on the tenement between 3<sup>rd</sup> February 2004 and the 4<sup>th</sup> November 2011 totalled \$156,473.89 as per the breakdown below.

<b>YEAR</b>	<b>EXPENDITURE</b>
Year 1 2004-2005	\$26,200
Year 2 2005-2006	\$10,406
Year 3 2006-2007	\$9,655
Year 4 2007-2008	\$488.49
Year 5 2008-2009	\$6,800
Year 6 2009-2010	\$25,951
Year 7 2010-2011	\$76,973.34
<b>Total</b>	<b>\$156,473.89</b>

## **7.0 REFERENCES**

Gravity Diamonds, (2005) EL 23931 Batten McArthur River Region, NT Annual Report on Exploration Activities, Year 1 of Tenure 3<sup>rd</sup> February 2004 to 2<sup>nd</sup> February 2005.

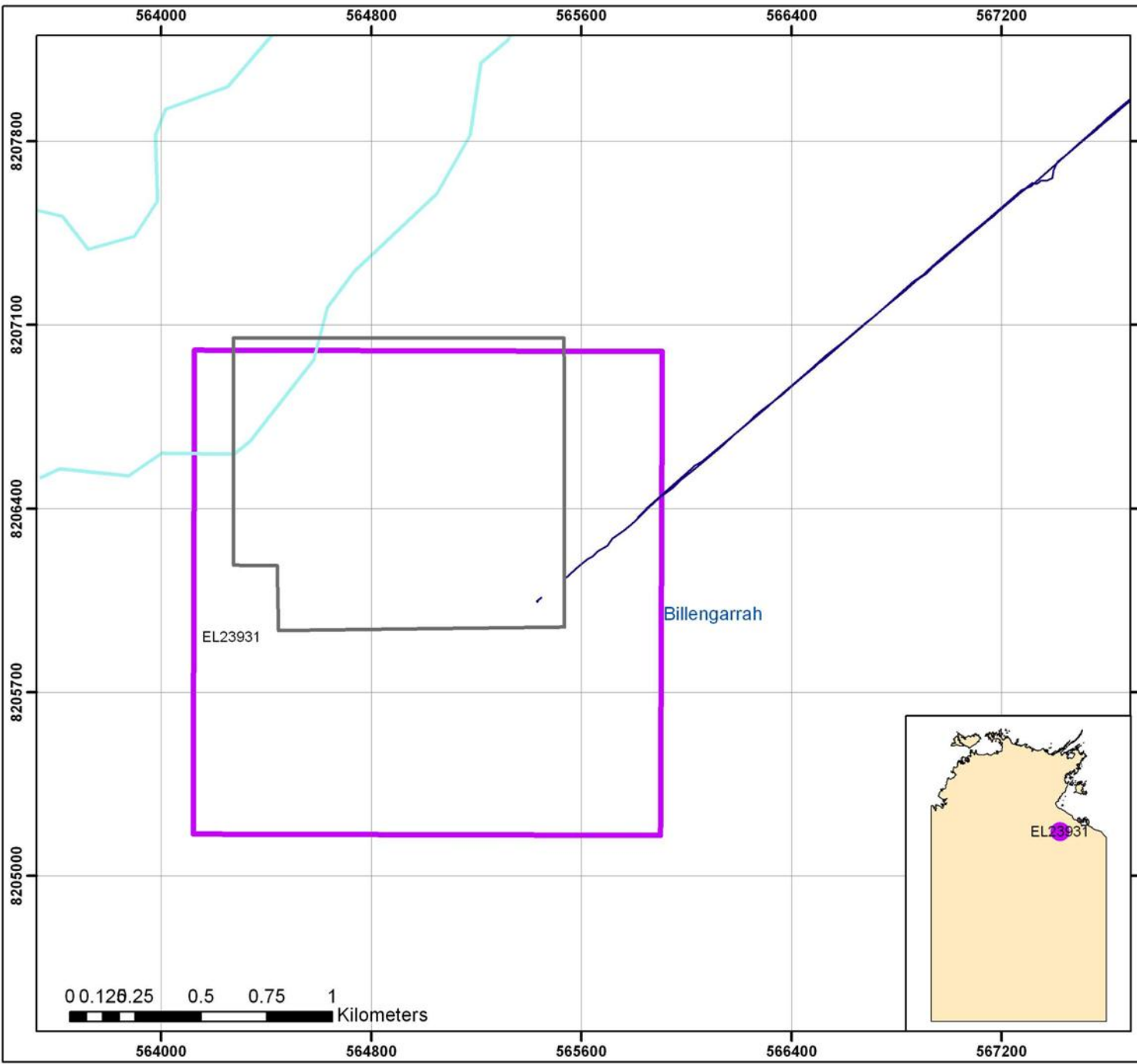
Gravity Diamonds, (2006) EL 23931 Batten McArthur River Region, NT Annual Report on Exploration Activities, Year 2 of Tenure 3<sup>rd</sup> February 2005 to 2<sup>nd</sup> February 2006.

Gravity Diamonds, (2007) EL 23931 Batten McArthur River Region, NT Annual Report on Exploration Activities, Year 3 of Tenure 3<sup>rd</sup> February 2006 to 2<sup>nd</sup> February 2007.

Gravity Diamonds, (2009) EL 23931 Batten McArthur River Region, NT Annual Report on Exploration Activities, Year 5 of Tenure 3<sup>rd</sup> February 2008 to 2<sup>nd</sup> February 2009.

Gravity Diamonds, (2010) EL 23931 Batten McArthur River Region, NT Annual Report on Exploration Activities, Year 6 of Tenure 3<sup>rd</sup> February 2009 to 2<sup>nd</sup> February 2010.

J. Abello, (2010) Abner Project Combined Annual Report for the Period 3<sup>rd</sup> August 2009 to 2<sup>nd</sup> August 2010. Legend International Holdings Inc, Ref: GR140/90.



**LEGEND**

- Northern Territory Land Corporation
- Crown Land
- Homesteads
- Towns
- Roads/Tracks
- Rivers/Creeks
- Tenements
- EM Survey Outline

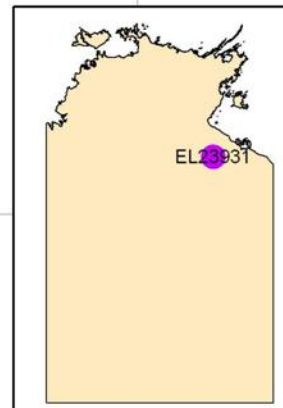
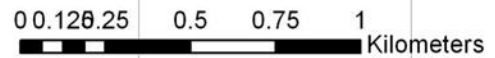
N  
GDA94/MGA53

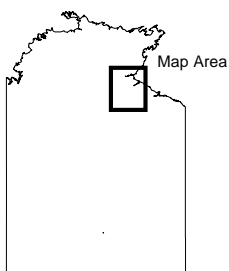
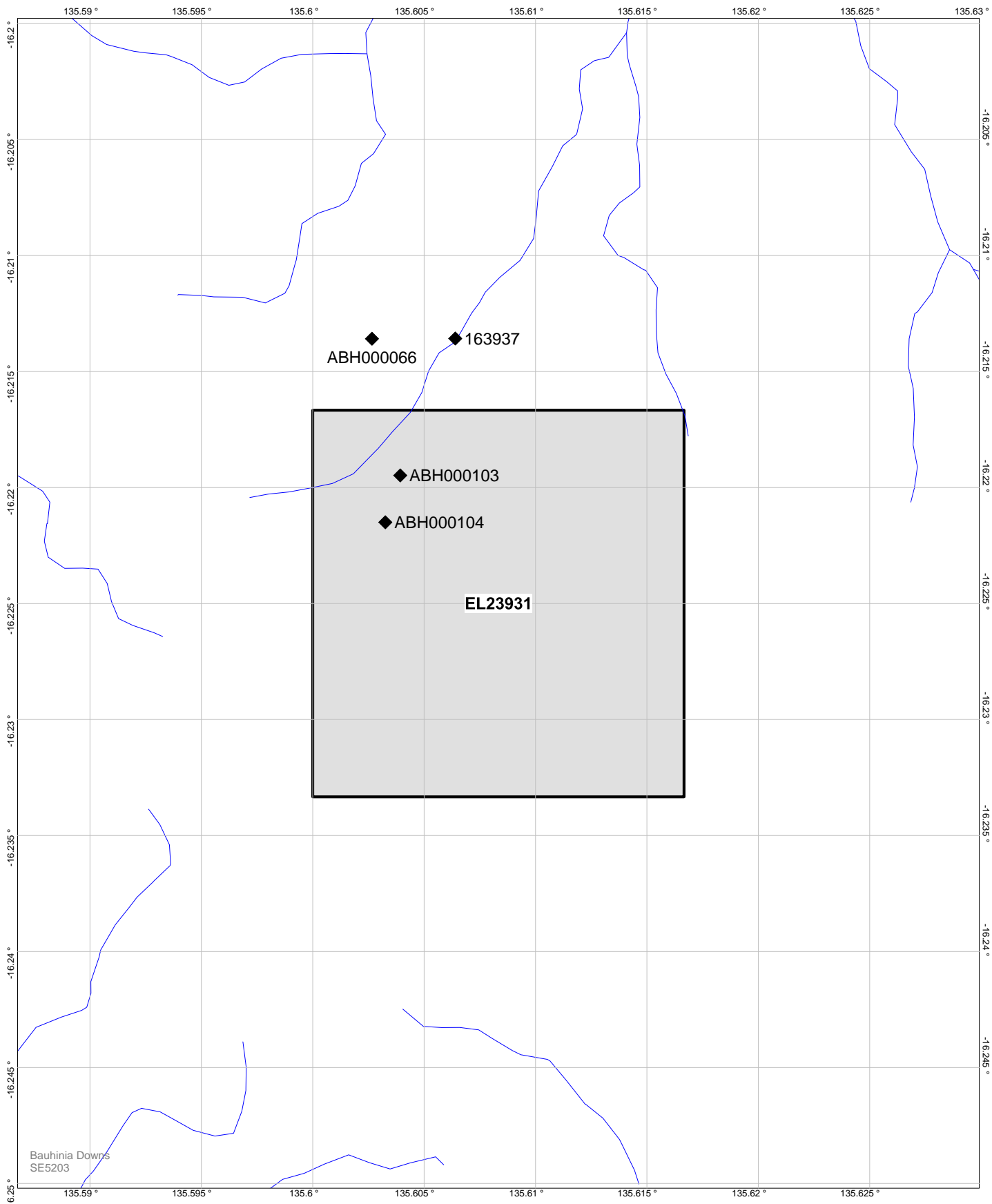
**LEGEND**  
ABN: 82 120 855 352

**Abner (Tanaburs) Project  
EL23931  
EM Survey Coverage**




Filepath: Tanaburs.mxd

DATE: 2/03/2010	AUTHOR: J. Abello	FIGURE 3
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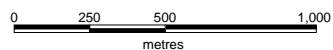


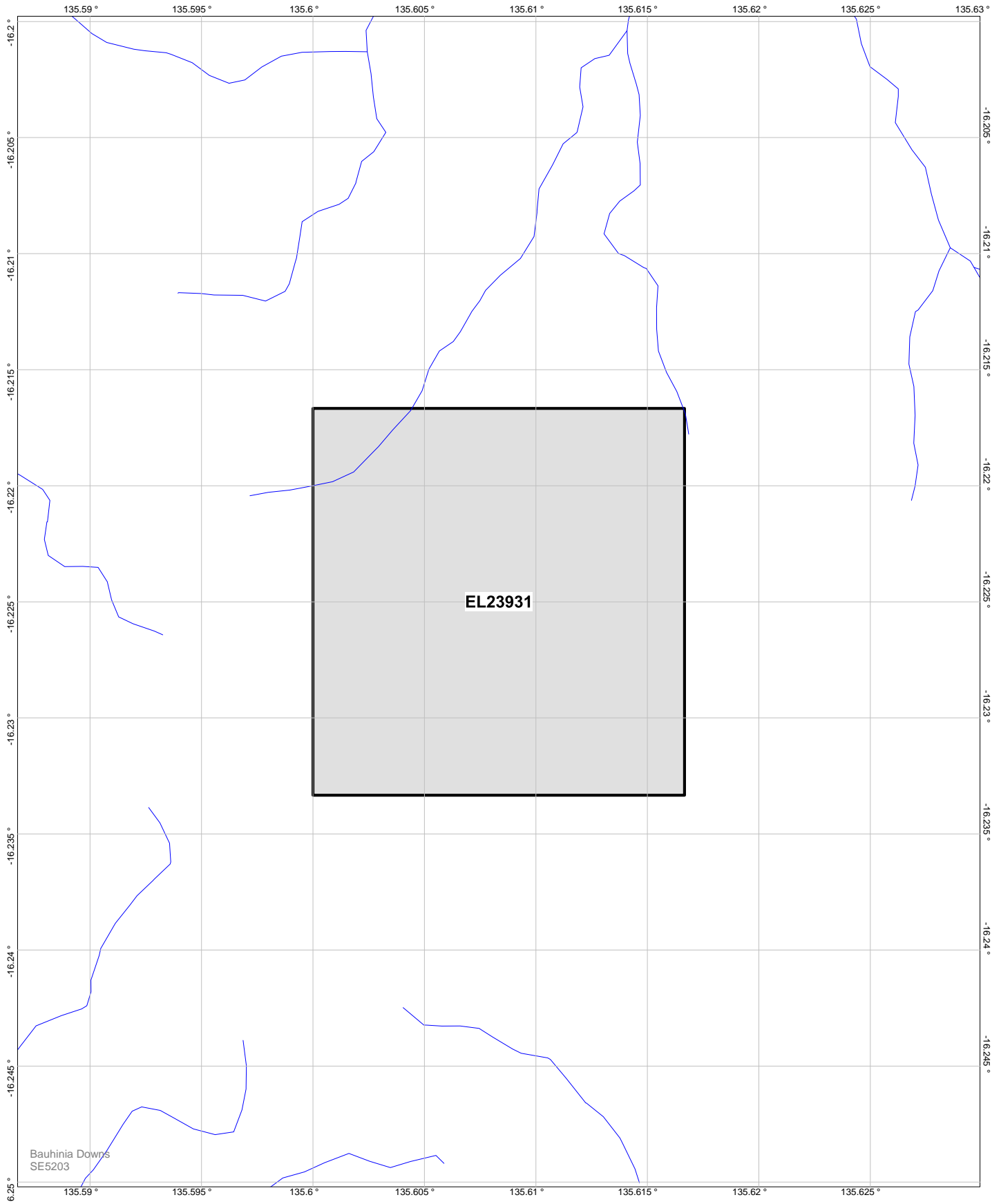
**Legend**

-  Tenement
-  Samples
-  Drainage

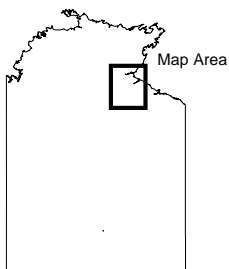
Legend International Holdings Inc

Date: 2012/2011	<b>Figure 2</b> <b>Sample Location Plan</b>
Author:	
Office:	
Drawing:	
Scale: 1:25000	Projection: Longitude / Latitude (Australia GDA84)







Bauhinia Downs  
SE5203



**Legend**

-  Tenement
-  Drainage

**Legend International Holdings Inc**

<b>Figure 1 Location Plan</b>	
Date: 2012/2011	
Author:	
Office:	
Drawing:	
Scale: 1:25000	Projection: Longitude / Latitude (Australia GDA94)

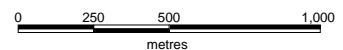


Table 2. Historic Sample Data

<b>SAMPLE</b>	<b>TENEMENT</b>	<b>TYPE</b>	<b>EASTIN G</b>	<b>NORTHIN G</b>	<b>DATU M</b>	<b>ZON E</b>	<b>RESULT</b>	<b>DIAMON D</b>	<b>CHROMITE</b>
163937	EL23931	GRAVEL	564811	8207344	GDA94	53	POSITIVE	0	15
ABH00006 6	EL23931	STREAM	564411	8207344	GDA94	53	POSITIVE	1	1
ABH00010 3	EL23931	LOAM	564545	8206692	GDA94	53	NEGATIVE	0	0
ABH00010 4	EL23931	STREAM	564473	8206469	GDA94	53	NEGATIVE	0	0

Table 3. EM Survey Details

Midpoint Easting	Midpoint Northing	READING	ROCK TYPE	VEG_TYPE	LINEORI	
565479.7	8206988	20	Clay	trees	E-W	24/11/2009
565440.9	8207002	13.2	Clay	trEES	E-W	24/11/2009
565403.3	8207004	10.9	sand	latERITE COARSE	E-W	24/11/2009
565361.6	8207004	14.3	latERITE COARSE	silver trEES	E-W	24/11/2009
565321	8207003	17.3	laterITE COARSE	silver trEES	E-W	24/11/2009
565282.2	8207006	16.5	laterITE COARSE	trEES	E-W	24/11/2009
565238.4	8207006	11.9	sand	tall trEES	E-W	24/11/2009
565198.1	8207011	9	sand	tall trEES	E-W	24/11/2009
565158.2	8206999	8.6	sand	tall trEES	E-W	24/11/2009
565122.6	8207007	8.9	sand	tall trees	E-W	24/11/2009
565081.2	8207006	8.2	sand	tall trees	E-W	24/11/2009
565043.1	8207005	7.8	Sand	tall trees	E-W	24/11/2009
565000.9	8207005	5.6	Sand	tall trEES	E-W	24/11/2009
564960.1	8207003	5.7	Sand	tall trees	E-W	24/11/2009
564918.6	8207010	5.1	Sand	tall trees	E-W	24/11/2009
564882.1	8207007	6.2	Sand	talltrees	E-W	24/11/2009
564840	8207001	7.7	sand	tall trees	E-W	24/11/2009
564798.5	8207001	10.4	Sand	tall trees	E-W	24/11/2009
564759.7	8207002	15.2	Sand	tall trees	E-W	24/11/2009
564718.2	8207004	22.2	Sand	tall trees	E-W	24/11/2009
564683.3	8206999	46.5	Sand	tall trees	E-W	24/11/2009
564641.2	8207000	52.5	Sand	tall trEES	E-W	24/11/2009
564597.8	8206998	49.2	sandstone purple	tall trEES	E-W	24/11/2009
564558.8	8207003	48.2	Sand	tall trees	E-W	24/11/2009
564522.8	8207008	43.4	Sand	trEES grass	E-W	24/11/2009
564482.5	8207002	34.9	Sand	tall trees grassy	E-W	24/11/2009
564441.4	8207002	30.7	clay slopes	tall trees	E-W	24/11/2009
564400.9	8207004	22.8	sandstone purple slope	tall trees gums	E-W	24/11/2009
564361.7	8206996	17.2	sandstone purple slope	tall trees	E-W	24/11/2009
564319.3	8206998	15	iron stone	tall trees	E-W	24/11/2009
564322.6	8206906	22.7	Sandstone	tall trees gums	W-E	24/11/2009
564359.9	8206896	22.7	sandstone oRANGE	tall trees gums	W-E	24/11/2009
564399.7	8206897	28.5	sandstone oRANGE	tall trees grass	W-E	24/11/2009
564437.6	8206899	32.3	sandstone oRANGE	trees grass slope	W-E	24/11/2009
564486.4	8206901	40.1	Sand	trees creek	W-E	24/11/2009
564525.1	8206896	44.2	Sand	tall trees	W-E	24/11/2009
564559.4	8206897	44	Sand	tall trees	W-E	24/11/2009
564603.5	8206901	38.7	Sand	tall trees	W-E	24/11/2009
564639.4	8206898	35.1	Sand	tall trees	W-E	24/11/2009
564680.2	8206896	28.8	Sand	tall trees	W-E	24/11/2009
564722.3	8206895	17.8	Sand	tall trees	W-E	24/11/2009



564755.8	8206899	11.2	Sand	tall trees	W-E	24/11/2009
564801.2	8206902	8.5	Sand	tall trees	W-E	24/11/2009
564837.2	8206904	6.7	Sand	tall trees	W-E	24/11/2009
564885.4	8206897	6.5	Sand	tall trees	W-E	24/11/2009
564908.9	8206898	7	sand	tall trees	W-E	24/11/2009
564956.5	8206903	6	Sand	trees	W-E	24/11/2009
564999.4	8206898	6.5	Sand	tall trees	W-E	24/11/2009
565044.3	8206892	8.4	Sand	tall trees	W-E	24/11/2009
565083.1	8206894	8.5	sand red	tall trees	W-E	24/11/2009
565121.1	8206895	9.5	sand red	tall trees	W-E	24/11/2009
565162.4	8206899	12.2	sand red	tall trees	W-E	24/11/2009
565204.1	8206904	11.8	sand red	tall trees	W-E	24/11/2009
565236.2	8206903	12.8	red sand	tall trees	W-E	24/11/2009
565283.6	8206898	15.3	red sand	tall trees	W-E	24/11/2009
565322.2	8206891	18.2	red sand	tall trees	W-E	24/11/2009
565361.1	8206900	17.7	sandstone oRANGE	tall trees	W-E	24/11/2009
565402	8206892	14.5	Sandstone	tall trees	W-E	24/11/2009
565441.9	8206896	13.5	Sand	trees grass	W-E	24/11/2009
565439.9	8206796	17.6	red sand	trees grass	E-W	24/11/2009
565399.1	8206794	18.9	red sand	trees grass	E-W	24/11/2009
565360.1	8206797	18.2	red sand	trees grass	E-W	24/11/2009
565316.3	8206797	15.3	red sand	tall trees	E-W	24/11/2009
565280.9	8206798	15.2	red sand	tall trees	E-W	24/11/2009
565241.3	8206801	13.6	red sand	tall trees grass	E-W	24/11/2009
565199.5	8206803	12.1	red sand	tall trees grass	E-W	24/11/2009
565161.9	8206808	12.3	red sand	tall trees grass	E-W	24/11/2009
565119.5	8206805	14.8	red sand	trees grass	E-W	24/11/2009
565080.5	8206803	13.1	red sand	tall trees grass	E-W	24/11/2009
565040.9	8206802	10.3	red sand	tall trees	E-W	24/11/2009
564999.4	8206804	7.8	red sand	tall trees	E-W	24/11/2009
564961.5	8206802	7.1	red sand	tall trees	E-W	24/11/2009
564922.1	8206806	6.6	red sand	tall trees	E-W	24/11/2009
564878.8	8206807	6.5	red sand	tall trees	E-W	24/11/2009
564841.4	8206811	7.3	red sand	tall trees	E-W	24/11/2009
564803.3	8206809	8.6	Sand	tall trees	E-W	24/11/2009
564765.2	8206806	12.8	Sand	tall trees	E-W	24/11/2009
564723.5	8206802	18.2	Sand	tall trees	E-W	24/11/2009
564679.5	8206802	21.6	Sand	tall trees	E-W	24/11/2009
564642.6	8206805	28.4	Sand	tall trees	E-W	24/11/2009
564601.5	8206803	37.2	Sand	tall trees	E-W	24/11/2009
564557.3	8206801	37.1	Sand	tall trees	E-W	24/11/2009
564516.5	8206799	35.4	Sand	tall trees	E-W	24/11/2009
564479.3	8206803	38.1	Sand	tall trees	E-W	24/11/2009
564441.5	8206804	37.9	Sand	tall trees	E-W	24/11/2009
564400	8206801	36.4	clay creek	tall trees	E-W	24/11/2009

564364.4	8206806	27.2	sandstone oRANGE slope	tall trees	E-W	24/11/2009
564322.5	8206802	21.6	sandstone oRANGE slope	trees grass	E-W	24/11/2009
564323.9	8206701	37.5	sandstone oRANGE slope gentle	trees grass	W-E	24/11/2009
564362.7	8206703	40.8	clay slopes	tall trees grass	W-E	24/11/2009
564401.9	8206697	36.2	sand laterITE	tall trees	W-E	24/11/2009
564439.3	8206699	25.1	sand laterITE	tall trees	W-E	24/11/2009
564479.2	8206698	15.2	sand	tall trees	W-E	24/11/2009
564519.7	8206696	24.9	sand	tall trees	W-E	24/11/2009
564558.7	8206699	39	sand	tall trees	W-E	24/11/2009
564601.6	8206694	32.8	sand	tall trees	W-E	24/11/2009
564642.4	8206694	23.8	sand	tall trees	W-E	24/11/2009
564681.6	8206696	19.7	sand	tall trees	W-E	24/11/2009
564721.5	8206701	18.3	sand	tall trees	W-E	24/11/2009
564762.8	8206696	15.8	sand	tall trees	W-E	24/11/2009
564802.2	8206695	10.8	red sand	tall trees	W-E	24/11/2009
564841.6	8206699	9.4	red sand	tall trees	W-E	24/11/2009
564878.1	8206697	8	red sand	tall trees	W-E	24/11/2009
564918.5	8206701	7.2	red sand	tall trees	W-E	24/11/2009
564960.9	8206695	7.4	red sand	tall trees	W-E	24/11/2009
565001.9	8206700	9.8	red sand	tall trees	W-E	24/11/2009
565041.9	8206697	11.1	red sand	tall trees	W-E	24/11/2009
565077.9	8206700	15.4	red sand	tall trees	W-E	24/11/2009
565118.2	8206702	17.7	red sand	tall trees	W-E	24/11/2009
565158.3	8206698	17.3	red sand grass	trees grass	W-E	24/11/2009
565198.9	8206696	15.7	red sand grass	tall trees	W-E	24/11/2009
565239.9	8206699	15.2	red sand grass	tall trees	W-E	24/11/2009
565279.2	8206696	18.3	red sand grass	tall trees	W-E	24/11/2009
565320.9	8206695	22.4	red sand	tall trees	W-E	24/11/2009
565359.4	8206697	26.1	red sand grass	tall trees	W-E	24/11/2009
565396.1	8206696	24.9	red sand grass	tall trees	W-E	24/11/2009
565442.6	8206699	25.3	sandstone purple	trees grass	W-E	24/11/2009
565447.2	8206613	26.2	red sand grass	tall trees	E-W	24/11/2009
565402.8	8206603	23.7	red sand	tall trees	E-W	24/11/2009
565357.7	8206599	21.3	red sand grass	tall trees	E-W	24/11/2009
565318.2	8206596	18.2	red sand grass	trees grass	E-W	24/11/2009
565279.7	8206597	14.2	red sand grass	tall trees	E-W	24/11/2009
565235.7	8206599	14.1	red sand grass	tall trees	E-W	24/11/2009
565197.3	8206603	14.3	red sand grass	tall trees	E-W	24/11/2009
565162.5	8206607	15.2	red sand grass	tall trees	E-W	24/11/2009
565118.3	8206603	14.6	red sand grass	tall trees	E-W	24/11/2009
565078.4	8206599	13.1	red sand grass	tall trees	E-W	24/11/2009
565038.5	8206603	9.6	red sand grass	tall trees	E-W	24/11/2009
565002.6	8206608	8.5	red sand grass	tall trees	E-W	24/11/2009
564966.2	8206604	8.5	red sand grass	tall trees	E-W	24/11/2009
564915.6	8206601	9.3	red sand grass	tall trees	E-W	24/11/2009

564878.9	8206601	8.6	red sand grass	tall trees	E-W	24/11/2009
564839.7	8206601	8.6	red sand grass	tall trees	E-W	24/11/2009
564801.6	8206606	12.2	red sand grass	tall trees	E-W	24/11/2009
564761.9	8206598	10.5	red sand grass	tall trees	E-W	24/11/2009
564718.1	8206599	13.4	red sand grass	tall trees	E-W	24/11/2009
564681.4	8206600	20.4	red sand grass	tall trees	E-W	24/11/2009
564640.6	8206603	25.8	red sand grass	tall trees	E-W	24/11/2009
564601.6	8206593	32.9	red sand	tall trees	E-W	24/11/2009
564562.6	8206596	34.4	red sand	tall trees	E-W	24/11/2009
564520.9	8206596	20.5	red sand	trees	E-W	24/11/2009
564476.3	8206595	13.4	large sandstone outcrop		E-W	24/11/2009
564441.6	8206595	25.4	sandstone	trees	E-W	24/11/2009
564401.2	8206595	39	sandstone bedrock	trees	E-W	24/11/2009
564362	8206603	38.6	red sand	trees	E-W	24/11/2009
564322.1	8206593	28.5	red clay	trees grass	E-W	24/11/2009
564327	8206496	28.2	clay FLAT	trees grass	W-E	24/11/2009
564365.7	8206506	21.9	clay FLAT	trees grass	W-E	24/11/2009
564404	8206504	18.2	sand	trees grass	W-E	24/11/2009
564444.6	8206501	17.9	sandstone	trees grass	W-E	24/11/2009
564486.5	8206499	15.1	sandstone purple outcrop	trees	W-E	24/11/2009
564526.6	8206500	18.1	sand	trees	W-E	24/11/2009
564566.3	8206500	28.7	sand	tall trees	W-E	24/11/2009
564608.2	8206502	29.5	red sand	tall trees	W-E	24/11/2009
564646.4	8206500	24.1	red sand	trees	W-E	24/11/2009
564684.4	8206496	20.5	red sand	tall trees	W-E	24/11/2009
564722.7	8206498	15.6	red sand	tall trees	W-E	24/11/2009
564768.3	8206501	12.8	red sand	tall trees	W-E	24/11/2009
564810.7	8206501	12.8	red sand	tall trees	W-E	24/11/2009
564847.9	8206498	9.5	red sand	tall trees	W-E	24/11/2009
564879.4	8206499	8.5	red sand	tall trees	W-E	24/11/2009
564922.9	8206503	8.4	red sand	tall trees	W-E	24/11/2009
564960.8	8206498	7.9	red sand grass	tall trees	W-E	24/11/2009
565004.1	8206498	8.8	red sand	tall trees	W-E	24/11/2009
565050.5	8206509	8.4	red sand	tall trees	W-E	24/11/2009
565086.8	8206498	9.9	red sand	tall trees	W-E	24/11/2009
565120.5	8206500	12	red sand	tall trees	W-E	24/11/2009
565165.7	8206504	11.1	red sand	tall trees	W-E	24/11/2009
565205.8	8206500	9.7	red sand grass	tall trees	W-E	24/11/2009
565241.6	8206506	10.2	red sand		W-E	24/11/2009
565281.1	8206503	12.4	red sand grass	tall trees	W-E	24/11/2009
565327.8	8206504	14.8	red sand grass	tall trees	W-E	24/11/2009
565364.7	8206500	15.7	red sand grass	tall trees	W-E	24/11/2009
565405.8	8206500	17.2	red sand grass	tall trees	W-E	24/11/2009
565444.6	8206497	20.1	red sand grass	tall trees	W-E	24/11/2009
565419.4	8206410	17.3	red sand grass	tall trees	E-W	24/11/2009

565408.6	8206403	15.7	red sand	tall trees	E-W	24/11/2009
565355.9	8206404	12.5	red sand grass	tall trees	E-W	24/11/2009
565316.7	8206395	12.8	red sand grass	tall trees	E-W	24/11/2009
565277	8206398	11	red sand grass	tall trees	E-W	24/11/2009
565240.7	8206401	10.5	red sand grass	tall trees	E-W	24/11/2009
565200.2	8206407	9.3	red sand grass	tall trees	E-W	24/11/2009
565163.5	8206407	9.4	red sand grass	tall trees	E-W	24/11/2009
565120.2	8206400	9.5	red sand grass	tall trees	E-W	24/11/2009
565080.4	8206407	9.2	red sand grass	tall trees	E-W	24/11/2009
565038.6	8206396	8.2	red sand grass	tall trees	E-W	24/11/2009
564992.7	8206403	8.8	red sand grass	tall trees	E-W	24/11/2009
564959.8	8206413	7.5	red sand grass	tall trees	E-W	24/11/2009
564920	8206399	7.5	red sand grass	tall trees	E-W	24/11/2009
564881	8206405	9.1	red sand grass	tall trees	E-W	24/11/2009
564838.3	8206402	12.3	red sand	tall trees	E-W	24/11/2009
564799.3	8206405	15.7	red sand	tall trees	E-W	24/11/2009
564759.9	8206406	17.1	red sand	trees	E-W	24/11/2009
564720.2	8206400	18.5	red sand	tall trees	E-W	24/11/2009
564678.8	8206398	21.2	red sand	tall trees	E-W	24/11/2009
564638.7	8206400	28.7	red sand	tall trees	E-W	24/11/2009
564599.9	8206404	31.2	red sand	tall trees	E-W	24/11/2009
564560	8206408	36.3	sand	tall trees	E-W	24/11/2009
564520.5	8206400	28.9	sand wash zone	trees	E-W	24/11/2009
564480.7	8206397	19.6	sandstone	trees	E-W	24/11/2009
564438.4	8206402	21.9	sandstone	trees	E-W	24/11/2009
564399.9	8206401	26.2	sandstone	trees	E-W	24/11/2009
564359.1	8206401	27.1	sandstone	trees	E-W	24/11/2009
564321.3	8206397	22.9	clay FLAT	trees	E-W	24/11/2009
564359.2	8206292	12.3	sandstone	tall trees	W-E	24/11/2009
564399	8206299	22.3	sandstone	tall trees	W-E	24/11/2009
564439.2	8206300	22.1	sandstone	tall trees	W-E	24/11/2009
564478.2	8206301	17.9	sandstone	tall trees	W-E	24/11/2009
564518.7	8206296	21.1	sandstone	tall trees	W-E	24/11/2009
564560.4	8206300	25.7	sandstone oRANGE	tall trees	W-E	24/11/2009
564598.3	8206304	24.1	sandstone	trees	W-E	24/11/2009
564637	8206304	19.5	sand	tall trees	W-E	24/11/2009
564681.7	8206298	17.1	red sand	tall trees	W-E	24/11/2009
564717.8	8206302	14.1	sand	tall trees	W-E	24/11/2009
564757.5	8206300	12.2	red sand	tall trees	W-E	24/11/2009
564798.5	8206305	11.5	sand	tall trees	W-E	24/11/2009
564836.6	8206304	10.9	red sand	tall trees	W-E	24/11/2009
564875.6	8206299	8.1	red sand	tall trees	W-E	24/11/2009
564917.7	8206299	7.2	red sand	tall trees	W-E	24/11/2009
564958.1	8206300	6.6	red sand	tall trees	W-E	24/11/2009
564998.4	8206297	7.2	red sand	tall trees	W-E	24/11/2009

565039	8206299	7.7	red sand	tall trees	W-E	24/11/2009
565081.2	8206304	7.6	red sand	tall trees	W-E	24/11/2009
565122.9	8206301	7.8	red sand	tall trees	W-E	24/11/2009
565163.3	8206305	8.6	red sand	tall trees	W-E	24/11/2009
565198.1	8206307	7.1	red sand	tall trees	W-E	24/11/2009
565239.4	8206304	8.5	red sand	tall trees	W-E	24/11/2009
565279.6	8206298	12.4	red sand	tall trees	W-E	24/11/2009
565316.2	8206300	31.6	red sand	tall trees	W-E	24/11/2009
565358.2	8206303	42.1	sand	tall trees	W-E	24/11/2009
565395.6	8206302	35	sand	tall trees	W-E	24/11/2009
565440.6	8206290	19.2	sand	tall trees	W-E	24/11/2009
565392.4	8206295	11.9	red sand	tall trees	W-E	24/11/2009
565430.7	8206210	11.6	red sand	tall trees	E-W	25/11/2009
565392.5	8206198	8.9	red sand grass	tall trees	E-W	25/11/2009
565359.8	8206203	9.5	red sand grass	tall trees	E-W	25/11/2009
565316.3	8206203	7.6	red sand grass	tall trees	E-W	25/11/2009
565284.6	8206204	9.8	red sand grass	tall trees	E-W	25/11/2009
565241.1	8206201	7.7	red sand grass	tall trees	E-W	25/11/2009
565195.2	8206197	6.5	red sand grass	tall trees	E-W	25/11/2009
565156	8206200	7.4	red sand grass	tall trees	E-W	25/11/2009
565117.2	8206204	7.1	red sand grass	tall trees	E-W	25/11/2009
565079.4	8206203	5.8	red sand	tall trees	E-W	25/11/2009
565036.1	8206197	5.7	red sand	tall trees	E-W	25/11/2009
564999.6	8206203	6.1	red sand	tall trees	E-W	25/11/2009
564957.7	8206203	5.9	red sand	tall trees	E-W	25/11/2009
564920	8206197	6.3	red sand	tall trees	E-W	25/11/2009
564881	8206201	7.3	red sand	tall trees	E-W	25/11/2009
564838.9	8206201	8.9	red sand	tall trees	E-W	25/11/2009
564799.5	8206200	7.8	red sand	tall trees	E-W	25/11/2009
564758.6	8206199	7.7	sand	tall trees	E-W	25/11/2009
564724	8206203	8.9	sand	tall trees	E-W	25/11/2009
564679.8	8206199	10.7	sand	tall trees	E-W	25/11/2009
564642.6	8206204	14.9	sand	tall trees	E-W	25/11/2009
564599	8206206	19.2	sand	tall trees	E-W	25/11/2009
564557.8	8206202	24.1	sandstone	tall trees	E-W	25/11/2009
564516.5	8206206	22.3	sandstone	tall trees	E-W	25/11/2009
564518.4	8206102	11.7	sandstone slope	tall trees	W-E	25/11/2009
564556.7	8206099	15.4	sandstone	tall trees	W-E	25/11/2009
564594	8206101	20.3	sandstone	tall trees	W-E	25/11/2009
564638	8206097	19.5	sandstone	tall trees	W-E	25/11/2009
564678.6	8206093	15.1	sandstone	tall trees	W-E	25/11/2009
564717.1	8206099	9.7	sandstone	tall trees	W-E	25/11/2009
564765.1	8206097	8.2	sand	tall trees	W-E	25/11/2009
564806.3	8206102	7.8	sand	tall trees	W-E	25/11/2009
564839.6	8206101	7.8	sand	tall trees	W-E	25/11/2009

564877.7	8206097	7.6	red sand	tall trees	W-E	25/11/2009
564917.8	8206103	6.9	red sand	tall trees	W-E	25/11/2009
564961.6	8206096	5.9	red sand	tall trees	W-E	25/11/2009
564995.6	8206100	6.3	red sand	tall trees	W-E	25/11/2009
565038.8	8206100	6.4	red sand	tall trees	W-E	25/11/2009
565075.4	8206099	7	red sand	tall trees	W-E	25/11/2009
565117.1	8206098	5.8	red sand	tall trees	W-E	25/11/2009
565159.2	8206101	6.7	red sand	tall trees	W-E	25/11/2009
565196.6	8206095	6.7	red sand	tall trees	W-E	25/11/2009
565239.2	8206102	5.9	red sand	tall trees	W-E	25/11/2009
565277.1	8206097	7.2	red sand	tall trees	W-E	25/11/2009
565320.4	8206096	7.6	red sand	tall trees	W-E	25/11/2009
565355.5	8206096	8.9	red sand	tall trees	W-E	25/11/2009
565402.1	8206103	9.9	red sand grass	tall trees	W-E	25/11/2009
565433.3	8206103	9.5	red sand grass	tall trees	W-E	25/11/2009
565440.4	8206005	7.3	red sand grass	tall trees	E-W	25/11/2009
565398.9	8206000	7.2	red sand grass	tall trees	E-W	25/11/2009
565357.6	8205997	6.5	red sand grass	tall trees	E-W	25/11/2009
565318.7	8206001	6.4	red sand grass	tall trees	E-W	25/11/2009
565279.9	8206005	6.7	red sand grass	tall trees	E-W	25/11/2009
565246.2	8205999	6.6	red sand	tall trees	E-W	25/11/2009
565200.5	8206000	5.8	red sand	tall trees	E-W	25/11/2009
565159.7	8206005	5.8	red sand	tall trees	E-W	25/11/2009
565120.7	8206000	5.9	red sand	tall trees	E-W	25/11/2009
565082	8206002	6.8	red sand	tall trees	E-W	25/11/2009
565043.7	8206000	7.6	red sand	tall trees	E-W	25/11/2009
564999.3	8205996	7.8	red sand	tall trees	E-W	25/11/2009
564959.3	8206002	7.5	red sand	tall trees	E-W	25/11/2009
564919.6	8206002	7.4	red sand	tall trees	E-W	25/11/2009
564884.6	8206000	9.1	red sand	tall trees	E-W	25/11/2009
564842.2	8206000	12.4	red sand	tall trees	E-W	25/11/2009
564802.5	8206002	13.2	sand	tall trees	E-W	25/11/2009
564759.8	8206000	15.2	sand	tall trees	E-W	25/11/2009
564719.1	8205997	14.8	sand	tall trees	E-W	25/11/2009
564686	8206006	18.7	sandstone	tall trees	E-W	25/11/2009
564643.8	8206002	21.5	sandstone	tall trees	E-W	25/11/2009
564599.8	8205995	13.2	sandstone slope steep	tall trees	E-W	25/11/2009
564561.3	8205997	5.8	sandstone slope steep	tall trees	E-W	25/11/2009