

# EXPLORATION LICENCES 24115 and 24195 BOWGAN PROJECT

# FOURTH ANNUAL REPORT FOR THE PERIOD 13 OCTOBER 2007 – 12 OCTOBER 2008

Mount Drummond, Walhallow, Brunette Downs, Calvert River 1:250,000 Map Sheets

Registered titleholder: Marengo Mining Limited

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## **SUMMARY**

The Bowgan Project, located 250 km northeast of Tennant Creek, consists of two contiguous exploration licences, EL 24115 and 24195. EL 24196 is located southwest of the other two licences and is reported separately.

In April 2006, Hindmarsh Resources Limited (now Mega Hindmarsh Pty Ltd) and Marengo Mining Limited entered into a Joint Venture agreement, whereby Hindmarsh is entitled to earn a 51% interest in the Bowgan Project by spending \$200,000 in three years.

The primary mineralisation model considered was unconformity related uranium and gold at the contact between the crystalline basement rocks (in particular the Murphy Metamorphics) and the overlying sedimentary rocks of the South Nicholson Basin. Identification of a potential chemical trap, such as cross-cutting dolerite or graphitic shale, was also used as a targeting criterion. A review of data identified nineteen targets, for initial ground follow-up, relying on geophysical data (AEM, ATMI) drill hole information and geological interpretation. These targets were thought to contain either the interpreted unconformity with linear magnetic (dolerite) and basement conductor (graphite) features.

Exploration activities by the company during the 2008 reporting period consisted of rehabilitation work at 19 historical drilling sites (Marengo-era) and the completion of a biogeochemical (vegetation) sampling program in seven target prospect areas identified by previous geophysical survey.

#### 1. INTRODUCTION

The Bowgan Project is located 250 km northeast of Tennant Creek on the Barkly Tableland (Figure 1). Access to the licences is via the Calvert Road and a network of well maintained graded station tracks.

This report, the fourth annual report for the Bowgan Project, details mineral exploration activities undertaken by Mega Hindmarsh Pty Limited (Hindmarsh) during the reporting period on ELs 24115 and 24195. The main activities included rehabilitation work at 19 historical drilling sites (Marengo-era) and a biogeochemical (vegetation) sampling program in seven target prospect areas identified by previous geophysical surveys.

#### 2. TENEMENT DETAILS

#### 2.1 Tenure

Marengo Mining Limited is the registered titleholder of two contiguous exploration licences EL 24115 and 24195 as detailed in Table 1. These exploration licences lie within the Walhallow Pastoral Lease.

**Table 1:** Tenement Details

Tenement	Name	Tenement Holder	No. of graticular blocks	Date Granted
EL 24115	Bowgan	Marengo Mining	55 (180 sq km)	7/10/2004
EL 24195	Benmara	Marengo Mining	63 (206 sq km)	7/10/2004

In April 2006 Mega Hindmarsh and Marengo Mining Limited entered into a Joint Venture arrangement, whereby Hindmarsh is entitled to earn a 51% interest in the Bowgan Project by expending \$200,000 in three years. Mega Hindmarsh is Manager and Operator of the Joint Venture.

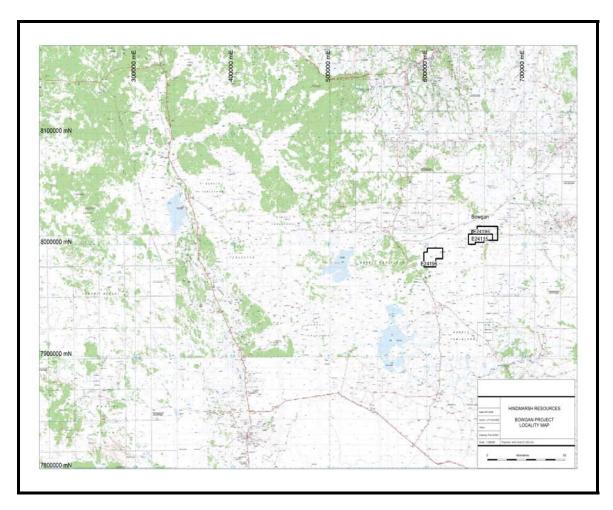
## 2.2 Native Title Parties and Aboriginal Heritage

In May 2005, Marengo convened a meeting with Northern Land Council (NLC) representatives and registered native title claimants at Benmara Homestead. The meeting was not attended by the native title claimants.

Marengo also requested an inspection of the Register of Sacred Sites maintained by the Aboriginal Areas Protection Authority (AAPA). This was completed in January 2005, with results indicating that a number of registered sacred sites and recorded sacred sites are located within the project area. Hindmarsh has planned its exploration program to avoid these sites.

#### 2.3 Consultation with Pastoralists

The station managers at Walhallow and Brunette Downs were informed of Mega Hindmarsh's field activities and will continue to be consulted on all aspects of access and rehabilitation.



**Figure 1:** Location of Bowgan Project, EL24115 (Bowgan) and EL24195 (Benmara).

#### 3. GEOLOGY

The project lies within the South Nicholson Basin, the geology of which is dominated by a central dome of South Nicholson Group (magnetically quiet and some sub-crop of sandstone). The dome axis/crest is marked by a linear east-west trending magnetic feature belonging to the underlying Murphy Inlier and lies adjacent to the interpreted position of the Fish River Fault. Three ground magnetic lines surveyed over this feature by Marengo indicate that it is deep; at its shallowest, the depth to the top of the magnetic body is estimated to be approximately 150-200m. Flanking the dome to the north, south and west is Cambrian basalt (noisy magnetic signature). The basalt is interpreted to overlie Tawallah Group sediments and volcanics (McArthur Basin) in the north and South Nicholson Group sediments (Nicholson Basin) to the south.

The area east of the crest has a distinctive layered magnetic pattern and previous drilling by Marengo confirmed that this is Murphy Metamorphics.

According to Marengo, the area is located at the intersection of several deep crustal structures, namely:

- the east-west trending Fish River Fault
- a set of north-westerly trending faults associated with the Walhallow Fault Zone
- the south trending extension of the Emu Fault Zone

The combination of deep crustal faults, a basement dome, suitable source rocks and unconformity relationship makes this area very prospective for unconformity style uranium-gold mineralisation.

#### 4. PREVIOUS EXPLORATION

Previous work in the district for gold, base metals and uranium has been undertaken by BHP, who explored along the Fish River Fault for SEDEX style mineralisation, and diamond explorers, who have been active in this area for many years.

Exploration activities undertaken by Marengo Mining Limited in the 2005 field season consisted of:

- Interpretation of geophysical data sets acquired from the Northern Territory Geological Survey
- Four ground magnetic survey lines across the interpreted position of the Fish River Fault
- Preparation of drill site access
- Drilling of nineteen reverse circulation drill holes to test a variety of geophysical targets.

Detailed results are described in First Annual Report for the period 13 October 2004 to 12 October 2005, by Marengo Mining.

#### 5. 2006 EXPLORATION

A reconnaissance geological survey was undertaken in August 2006. Following this, Hawke Geophysics Pty Ltd was contracted to review previously acquired geophysical data in order to identify the unconformity contact between the crystalline basement rocks (in particular the Murphy Metamorphics) and the overlying sedimentary rocks of the South Nicholson Basin.

The primary mineralisation model considered was for unconformity related uranium and gold at this contact, with identification of a potential chemical trap, such as a cross cutting dolerite or graphitic shale, also used as a targeting criteria.

To assist in the geological interpretation of the GeoTEM (airborne EM) survey, the data were reprocessed to produce conductivity-depth inversion (CDI) sections and depth slice products by Integrated Geophysical Solutions of West Perth.

Nineteen target locations were identified for initial ground follow-up, testing a range of interpreted unconformity surface, dolerite and basement conductor (graphite) features. Immediate follow up work included the collection of 59.8 km of ground magnetics and 7,818 ground spectrometer readings.

Selected magnetic features of the ground magnetic profiles were modelled to help constrain their geometry, including:

- The main magnetic anomaly target in the centre of the eastern tenements has a modelled depth of 220 m.
- The magnetic source within the Cambrian basalts is modelled at 160 m depth.
- Interpreted dolerite dykes have a modelled depth of 150 m.
- (Basement) magnetic targets in EL24196 have a modelled depth of 230 m.

The spectrometer survey identified several areas of anomalous uranium concentration (ranging from 8-12 ppm eU), including a 1.3 km zone of elevated uranium along the interpreted basement unconformity corridor. In general, there is a good correlation between the ground and airborne radiometric surveys.

#### 6. 2007 EXPLORATION

Exploration work completed during the reporting period focussed on the further evaluation of exploration targets delineated during the previous reporting period (2006).

The following exploration work was completed during the 2007 reporting period:

- •Two RC drill holes (07RCBG01-2), with total of 234.5m being drilled and sampled.
- •311.97 line kilometres of geophysical (ground radiometric) surveying by 4WD vehicle.
- •Geochemical (soil) sampling program, with a total of 248 soil samples being collected by handauger and machine auger.
- •Preliminary (orientation) program of vegetation sampling, with 207 leaf and stem samples being collected.

#### 7. 2008 EXPLORATION

Exploration work completed during the reporting period consisted of:

- Rehabilitation of historical drill sites (Marengo-era) by earthmoving contractor, and
- Biogeochemical (vegetation) sampling program at seven target prospect areas.

#### 7.1 Rehabilitation of historical drill hole sites

Previous exploration completed by Marengo on EL 24115/95 involved drilling 19 drill holes (BWC 001-019; Table 1, Appendix 1). No rehabilitation of drilling sites was completed, with sample bags still being observed in varying stages of decomposition at each site by Mega Hindmarsh exploration staff. Whilst all drill holes had originally been capped, a number of these caps had been removed by stock leaving holes open.

During August 2008, a backhoe and operator were contracted from Barkley Plumbing Services in Tennant Creek to rehabilitate the 19 historical drill sites. For each site, the rehabilitation procedure involved the excavation of a slot trench to a depth of 1.5m for the disposal of the remaining drilling spoil and sample bags. In some areas (holes BWC005-009), the trench was dug to shallower depth owing to impenetrable laterite being intersected which was too hard to be dug by backhoe bucket.

At each site, the remaining sample spoil was then bladed into the trench using the front bucket of the backhoe. After sample disposal, the area immediately underneath the original sample point was then scraped to a depth of 0.2-0.3m using the front bucket to remove any remaining residue that had infiltrated the surface soil. This soil was then placed over the top of the sample spoil before the trench was backfilled using the originally excavated material (samples covered by approximately 1metre of backfill). For the shallower laterite areas, the trench was mounded to ensure samples were adequately covered to approximately 1 metre depth by backfill.

At each exposed drill hole, a plug was inserted at shallow depth and each PVC collar section was snapped-off at approximately 0.3metres below surface. A bucket of the backfill material was subsequently dumped over the hole collar and the area mounded slightly above the surrounding soil surface. At each site, photographs were taken to provide a permanent record of rehabilitation activity.

A summary report, detailing all rehabilitation works conducted during September 2008 was subsequently forwarded to the NT Department of Primary Industry, Fisheries and Mines (Appendix 4).

#### 7.2 Biogeochemical (vegetation) and sampling program

A total of 98 biogeochemical samples (H11746-99, H11863-99, H12762-68) where collected from seven target areas on EL21115/95 during August 2008. Target areas were chosen from previous interpretation of geophysical survey data by geophysicist Phil Hawke.

At each of the seven target areas, a total of 14 individual samples of either eucalypt leaves or local grasses where collected by hand. Samples were collected every 100metres, along two N-S oriented traverses (200metre line-spacing). A summary of samples collected is presented in Table 2 (Appendix 2). One rock sample (H12769), consisting of brecciated quartz was collected from

the immediate area as vegetation sample H11888, MGA co-ordinates 664700E, 8012350N (Appendix 3).

Biogeochemical (vegetation) samples were packaged and dispatched to Mega Hindmarsh HQ in Adelaide for drying and sample preparation. The rock sample was dispatched to ALS Chemex in Alice Springs for preparation and analysis via ICP M/S (ME MS-41/61/81) method. Results are appended (Appendix 5), with anomalous values of uranium (0.47ppm), Thorium (1.8ppm), Copper (14ppm), Chromium (20ppm), Lead (6ppm), Vanadium (57ppm) and Zinc (13ppm) and a number of other elements being identified.

## 8. CONCLUSIONS AND RECOMMENDATIONS

- Results are awaited for the biogeochemical (vegetation) sampling program conducted at seven geophysical target areas
- Rock chip sampling of sheared quartz identified anomalous assays values for uranium (0.47ppm), Thorium (1.8ppm), Copper (14ppm), Chromium (20ppm), Lead (6ppm), Vanadium (57ppm) and Zinc (13ppm)
- Rehabilitation works were completed at 19 drill hole sites to current environmental standards as per NT Department of Primary Industry, Fisheries and Mines environmental guidelines.
- A continuation of soil, rock chip and biogeochemical (vegetation) sampling programs is proposed. This work will further delineation anomalies in the areas proposed for drill testing.
- The remaining part of the drilling program was postponed as a result of unavailability of a drilling rig during 2008. This work is currently planned during the next reporting period.

**Table 1:** Location of drill holes rehabilitated on EL24115/95.

HOLE_ID	MGA_E	MGA_N	DEPTH	COMPANY
BWC001	652220	8010188	97	Marengo
BWC002	652273	8010004	97	Marengo
BWC003	653391	8011864	79	Marengo
BWC004	655553	8010422	97	Marengo
BWC005	654546	8007259	34	Marengo
BWC006	654550	8007066	115	Marengo
BWC007	654550	8006693	163	Marengo
BWC008	654552	8006649	121	Marengo
BWC009	654549	8006587	109	Marengo
BWC010	659503	8005297	73	Marengo
BWC011	659507	8005711	73	Marengo
BWC012	660740	8006628	49	Marengo
BWC013	663215	8011637	49	Marengo
BWC014	663220	8011995	37	Marengo
BWC015	663255	8012457	55	Marengo
BWC016	664917	8011778	79	Marengo
BWC017	662523	8007419	67	Marengo
BWC018	662094	8005605	61	Marengo
BWC019	662267	8004687	61	Marengo

**Table 1:** Sample number, location and description of biogeochemical samples collected on EL24115/95 during August 2008.

SAMPLE ID						
H11747	SAMPLE ID	UTM_EAST	UTM_NORTH	SPECIES	ORGAN	DATE
H11748	H11746	649300	8003100	eucalypt	leaf	20/08/2008
H11749	H11747	649300	8003000	eucalypt	leaf&seedpod	20/08/2008
H11750	H11748	649300	8002900	eucalypt	leaf&seedpod	20/08/2008
H11751   649300   8002600   eucalypt   leaf&seedpod   20/08/2008   H11752   649300   8002500   eucalypt   leaf&seedpod   20/08/2008   H11753   649100   8002500   eucalypt   leaf&seedpod   20/08/2008   H11754   649100   8002500   eucalypt   leaf&seedpod   20/08/2008   H11755   649100   8002500   eucalypt   leaf&seedpod   20/08/2008   H11755   649100   8002500   eucalypt   leaf&seedpod   20/08/2008   H11756   649100   8002700   eucalypt   leaf&seedpod   20/08/2008   H11757   649100   8002800   eucalypt   leaf&seedpod   20/08/2008   H11758   649100   8002900   eucalypt   leaf&seedpod   20/08/2008   H11759   649100   8002900   eucalypt   leaf&seedpod   20/08/2008   H11760   655900   8002900   eucalypt   leaf&seedpod   20/08/2008   H11761   655900   8002800   eucalypt   leaf&seedpod   21/08/2008   H11762   655900   8002800   eucalypt   leaf&seedpod   21/08/2008   H11764   655900   8002500   eucalypt   leaf&seedpod   21/08/2008   H11764   655900   8002500   eucalypt   leaf&seedpod   21/08/2008   H11764   655900   8002500   eucalypt   leaf&seedpod   21/08/2008   H11766   655900   8002300   eucalypt   leaf&seedpod   21/08/2008   H11769   656100   8002500   eucalypt   leaf&seedpod   21/08/2008   H11769   656100   8002500   eucalypt   leaf&seedpod   21/08/2008   H11770   656100   8002500   eucalypt   leaf&seedpod   21/08/2008   H11771   656100   8002500   eucalypt   leaf&seedpod   21/08/2008   H11773   656100   8002600   eucalypt   leaf&seedpod   21/08/2008   H11773   656100   8006000   eucalypt   leaf&seedpod   21/08/2008   H11774   662700   8006000   eucalypt   leaf   21/08/2008   H11776   662700   8006000   eucalypt   leaf   21/08/2008   H11778   662700   8006000   eucalypt   leaf   21/08/2008   H11778   662700   8006000   eucalypt   leaf   21/08/2008   H11780   662700   8006000   eucalypt   leaf   21/08/2008   H11781	H11749	649300	8002800	eucalypt	leaf&seedpod	20/08/2008
H11752	H11750	649300	8002700	eucalypt	leaf&seedpod	20/08/2008
H11753	H11751	649300	8002600	eucalypt	leaf&seedpod	20/08/2008
H11754   649100   8002500   eucalypt   leaf&seedpod   20/08/2008   H11755   649100   8002600   eucalypt   leaf&seedpod   20/08/2008   H11756   649100   8002700   eucalypt   leaf&seedpod   20/08/2008   H11757   649100   8002800   eucalypt   leaf&seedpod   20/08/2008   H11758   649100   8002900   eucalypt   leaf&seedpod   20/08/2008   H11759   649100   8003000   eucalypt   leaf&seedpod   20/08/2008   H11759   649100   8003000   eucalypt   leaf&seedpod   20/08/2008   H11760   655900   8002900   eucalypt   leaf&seedpod   21/08/2008   H11761   655900   8002800   eucalypt   leaf&seedpod   21/08/2008   H11762   655900   8002800   eucalypt   leaf&seedpod   21/08/2008   H11763   655900   8002600   eucalypt   leaf&seedpod   21/08/2008   H11764   655900   8002500   eucalypt   leaf&seedpod   21/08/2008   H11765   655900   8002500   eucalypt   leaf&seedpod   21/08/2008   H11765   655900   8002400   eucalypt   leaf&seedpod   21/08/2008   H11766   655900   8002400   eucalypt   leaf&seedpod   21/08/2008   H11766   655900   8002400   eucalypt   leaf&seedpod   21/08/2008   H11769   656100   8002400   eucalypt   leaf&seedpod   21/08/2008   H11770   656100   8002500   eucalypt   leaf&seedpod   21/08/2008   H11770   656100   8002600   eucalypt   leaf&seedpod   21/08/2008   H11771   656100   8002800   eucalypt   leaf&seedpod   21/08/2008   H11771   656100   8002800   eucalypt   leaf&seedpod   21/08/2008   H11771   656100   8002800   eucalypt   leaf&seedpod   21/08/2008   H11771   656100   8002900   eucalypt   leaf&seedpod   21/08/2008   H11773   656100   8003000   eucalypt   leaf   21/08/2008   H11776   662700   8006000   eucalypt   leaf   21/08/2008   H11776   662700   8006000   eucalypt   leaf   21/08/2008   H11778   662700   8006000   eucalypt   leaf   21/08/2008   H11780   662700   8006000   eucalypt   leaf   21/08/2008   H11780   662700   8006000   eucalypt   leaf   21/08/2008   H11780   662700   8006000   eucalypt   leaf   21/08/2008   H11781   662900   8006000   eucalypt   leaf   21/08/2008   H11781   662900   8006000   euc	H11752	649300	8002500	eucalypt	leaf&seedpod	20/08/2008
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H11757         649100         8002800         eucalypt         leaf&seedpod         20/08/2008           H11758         649100         8002900         eucalypt         leaf&seedpod         20/08/2008           H11759         649100         8003000         eucalypt         leaf&seedpod         20/08/2008           H11760         655900         8002900         eucalypt         leaf&seedpod         21/08/2008           H11761         655900         8002800         eucalypt         leaf&seedpod         21/08/2008           H11762         655900         8002600         eucalypt         leaf&seedpod         21/08/2008           H11764         655900         8002500         eucalypt         leaf&seedpod         21/08/2008           H11765         655900         8002500         eucalypt         leaf&seedpod         21/08/2008           H11766         655900         8002300         eucalypt         leaf&seedpod         21/08/2008           H11767         656100         8002400         eucalypt         leaf&seedpod         21/08/2008           H11768         656100         8002500         eucalypt         leaf         21/08/2008           H11779         656100         8002500         eucalypt	H11755	649100	8002600	eucalypt	leaf&seedpod	20/08/2008
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H11759         649100         8003000         eucalypt         leaf&seedpod         20/08/2008           H11760         655900         8002900         eucalypt         leaf&seedpod         21/08/2008           H11761         655900         8002800         eucalypt         leaf&seedpod         21/08/2008           H11762         655900         8002700         eucalypt         leaf&seedpod         21/08/2008           H11763         655900         8002500         eucalypt         leaf&seedpod         21/08/2008           H11764         655900         8002500         eucalypt         leaf&seedpod         21/08/2008           H11765         655900         8002400         eucalypt         leaf&seedpod         21/08/2008           H11766         655900         8002400         eucalypt         leaf&seedpod         21/08/2008           H11767         656100         8002400         eucalypt         leaf&seedpod         21/08/2008           H11768         656100         8002500         eucalypt         leaf&seedpod         21/08/2008           H11768         656100         8002500         eucalypt         leaf&seedpod         21/08/2008           H11770         656100         8002800         eucalypt	H11757	649100	8002800	eucalypt	leaf&seedpod	20/08/2008
H11760         655900         8002900         eucalypt         leaf&seedpod         21/08/2008           H11761         655900         8002800         eucalypt         leaf&seedpod         21/08/2008           H11762         655900         8002700         eucalypt         leaf&seedpod         21/08/2008           H11763         655900         8002600         eucalypt         leaf&seedpod         21/08/2008           H11764         655900         8002500         eucalypt         leaf&seedpod         21/08/2008           H11765         655900         8002400         eucalypt         leaf&seedpod         21/08/2008           H11766         655900         8002300         eucalypt         leaf&seedpod         21/08/2008           H11767         656100         8002400         eucalypt         leaf&seedpod         21/08/2008           H11768         656100         8002500         eucalypt         leaf         21/08/2008           H11769         656100         8002600         eucalypt         leaf&seedpod         21/08/2008           H11770         656100         8002700         eucalypt         leaf&seedpod         21/08/2008           H11771         656100         8002800         eucalypt	H11758	649100	8002900	eucalypt	leaf&seedpod	20/08/2008
H11761         655900         8002800         eucalypt         leaf&seedpod         21/08/2008           H11762         655900         8002700         eucalypt         leaf&seedpod         21/08/2008           H11763         655900         8002600         eucalypt         leaf&seedpod         21/08/2008           H11764         655900         8002500         eucalypt         leaf&seedpod         21/08/2008           H11765         655900         8002400         eucalypt         leaf&seedpod         21/08/2008           H11766         655900         8002300         eucalypt         leaf&seedpod         21/08/2008           H11767         656100         8002400         eucalypt         leaf&seedpod         21/08/2008           H11768         656100         8002500         eucalypt         leaf         21/08/2008           H11769         656100         8002500         eucalypt         leaf&seedpod         21/08/2008           H11770         656100         8002200         eucalypt         leaf&seedpod         21/08/2008           H11771         656100         8002800         eucalypt         leaf&seedpod         21/08/2008           H11772         656100         8002900         eucalypt	H11759	649100	8003000	eucalypt	leaf&seedpod	20/08/2008
H11762         655900         8002700         eucalypt         leaf&seedpod         21/08/2008           H11763         655900         8002600         eucalypt         leaf&seedpod         21/08/2008           H11764         655900         8002500         eucalypt         leaf&seedpod         21/08/2008           H11765         655900         8002400         eucalypt         leaf&seedpod         21/08/2008           H11766         655900         8002300         eucalypt         leaf&seedpod         21/08/2008           H11767         656100         8002400         eucalypt         leaf         21/08/2008           H11768         656100         8002500         eucalypt         leaf         21/08/2008           H11769         656100         8002500         eucalypt         leaf         21/08/2008           H11770         656100         8002600         eucalypt         leaf&seedpod         21/08/2008           H11771         656100         8002800         eucalypt         leaf&seedpod         21/08/2008           H11772         656100         8002900         eucalypt         leaf&seedpod         21/08/2008           H11773         656100         8003000         eucalypt         leaf	H11760	655900	8002900	eucalypt	leaf&seedpod	21/08/2008
H11763         655900         8002600         eucalypt         leaf&seedpod         21/08/2008           H11764         655900         8002500         eucalypt         leaf&seedpod         21/08/2008           H11765         655900         8002400         eucalypt         leaf&seedpod         21/08/2008           H11766         655900         8002300         eucalypt         leaf&seedpod         21/08/2008           H11767         656100         8002400         eucalypt         leaf         21/08/2008           H11768         656100         8002500         eucalypt         leaf         21/08/2008           H11769         656100         8002600         eucalypt         leaf&seedpod         21/08/2008           H11770         656100         8002700         eucalypt         leaf&seedpod         21/08/2008           H11771         656100         8002800         eucalypt         leaf&seedpod         21/08/2008           H11772         656100         8002900         eucalypt         leaf&seedpod         21/08/2008           H11773         656100         8003000         eucalypt         leaf&seedpod         21/08/2008           H11774         662700         8006400         ryegrass         stal	H11761	655900	8002800	eucalypt	leaf&seedpod	21/08/2008
H11764         655900         8002500         eucalypt         leaf&seedpod         21/08/2008           H11765         655900         8002400         eucalypt         leaf&seedpod         21/08/2008           H11766         655900         8002300         eucalypt         leaf&seedpod         21/08/2008           H11767         656100         8002400         eucalypt         leaf&seedpod         21/08/2008           H11768         656100         8002500         eucalypt         leaf eaf&seedpod         21/08/2008           H11769         656100         8002600         eucalypt         leaf&seedpod         21/08/2008           H11770         656100         8002700         eucalypt         leaf&seedpod         21/08/2008           H11771         656100         8002800         eucalypt         leaf&seedpod         21/08/2008           H11772         656100         8002900         eucalypt         leaf&seedpod         21/08/2008           H11773         656100         8002900         eucalypt         leaf eaf eagedpod         21/08/2008           H11774         662700         8006400         ryegrass         stalk/leaf         21/08/2008           H11775         662700         8006300         eucalyp	H11762	655900	8002700	eucalypt	leaf&seedpod	21/08/2008
H11765         655900         8002400         eucalypt         leaf&seedpod         21/08/2008           H11766         655900         8002300         eucalypt         leaf&seedpod         21/08/2008           H11767         656100         8002400         eucalypt         leaf&seedpod         21/08/2008           H11768         656100         8002500         eucalypt         leaf         21/08/2008           H11769         656100         8002600         eucalypt         leaf&seedpod         21/08/2008           H11770         656100         8002700         eucalypt         leaf&seedpod         21/08/2008           H11771         656100         8002800         eucalypt         leaf&seedpod         21/08/2008           H11772         656100         8002900         eucalypt         leaf&seedpod         21/08/2008           H11773         656100         8003000         eucalypt         leaf&seedpod         21/08/2008           H11774         662700         8006400         ryegrass         stalk/leaf         21/08/2008           H11775         662700         8006300         eucalypt         leaf         21/08/2008           H11776         662700         8006000         eucalypt         leaf </td <td>H11763</td> <td>655900</td> <td>8002600</td> <td>eucalypt</td> <td>leaf&amp;seedpod</td> <td>21/08/2008</td>	H11763	655900	8002600	eucalypt	leaf&seedpod	21/08/2008
H11766         655900         8002300         eucalypt         leaf&seedpod         21/08/2008           H11767         656100         8002400         eucalypt         leaf&seedpod         21/08/2008           H11768         656100         8002500         eucalypt         leaf         21/08/2008           H11769         656100         8002600         eucalypt         leaf&seedpod         21/08/2008           H11770         656100         8002700         eucalypt         leaf&seedpod         21/08/2008           H11771         656100         8002800         eucalypt         leaf&seedpod         21/08/2008           H11772         656100         8002900         eucalypt         leaf&seedpod         21/08/2008           H11773         656100         8003000         eucalypt         leaf&seedpod         21/08/2008           H11774         662700         8006400         ryegrass         stalk/leaf         21/08/2008           H11775         662700         8006300         eucalypt         leaf         21/08/2008           H11776         662700         8006200         eucalypt         leaf         21/08/2008           H11778         662700         8006000         eucalypt         leaf	H11764	655900	8002500	eucalypt	leaf&seedpod	21/08/2008
H11767         656100         8002400         eucalypt         leaf&seedpod         21/08/2008           H11768         656100         8002500         eucalypt         leaf         21/08/2008           H11769         656100         8002600         eucalypt         leaf&seedpod         21/08/2008           H11770         656100         8002700         eucalypt         leaf&seedpod         21/08/2008           H11771         656100         8002800         eucalypt         leaf&seedpod         21/08/2008           H11772         656100         8002900         eucalypt         leaf&seedpod         21/08/2008           H11773         656100         8003000         eucalypt         leaf&seedpod         21/08/2008           H11774         662700         8006400         ryegrass         stalk/leaf         21/08/2008           H11775         662700         8006300         eucalypt         leaf         21/08/2008           H11776         662700         8006200         eucalypt         leaf         21/08/2008           H11778         662700         8006000         eucalypt         leaf         21/08/2008           H11780         662700         8005900         eucalypt         leaf	H11765	655900	8002400	eucalypt	leaf&seedpod	21/08/2008
H11768         656100         8002500         eucalypt         leaf         21/08/2008           H11769         656100         8002600         eucalypt         leaf&seedpod         21/08/2008           H11770         656100         8002700         eucalypt         leaf&seedpod         21/08/2008           H11771         656100         8002800         eucalypt         leaf&seedpod         21/08/2008           H11772         656100         8002900         eucalypt         leaf&seedpod         21/08/2008           H11773         656100         8003000         eucalypt         leaf&seedpod         21/08/2008           H11774         662700         8006400         ryegrass         stalk/leaf         21/08/2008           H11775         662700         8006300         eucalypt         leaf         21/08/2008           H11776         662700         8006200         eucalypt         leaf         21/08/2008           H11777         662700         8006100         eucalypt         leaf         21/08/2008           H11778         662700         8005900         eucalypt         leaf         21/08/2008           H11780         662700         8005800         eucalypt         leaf         21/08/20	H11766	655900	8002300	eucalypt	leaf&seedpod	21/08/2008
H11769         656100         8002600         eucalypt         leaf&seedpod         21/08/2008           H11770         656100         8002700         eucalypt         leaf&seedpod         21/08/2008           H11771         656100         8002800         eucalypt         leaf&seedpod         21/08/2008           H11772         656100         8002900         eucalypt         leaf&seedpod         21/08/2008           H11773         656100         8003000         eucalypt         leaf&seedpod         21/08/2008           H11774         662700         8006400         ryegrass         stalk/leaf         21/08/2008           H11775         662700         8006300         eucalypt         leaf         21/08/2008           H11776         662700         8006200         eucalypt         leaf         21/08/2008           H11777         662700         8006100         eucalypt         leaf         21/08/2008           H11779         662700         8005900         eucalypt         leaf         21/08/2008           H11780         662700         8005800         eucalypt         leaf         21/08/2008           H11781         662900         8005900         eucalypt         leaf         21/08/20	H11767	656100	8002400	eucalypt	leaf&seedpod	21/08/2008
H11770         656100         8002700         eucalypt         leaf&seedpod         21/08/2008           H11771         656100         8002800         eucalypt         leaf&seedpod         21/08/2008           H11772         656100         8002900         eucalypt         leaf&seedpod         21/08/2008           H11773         656100         8003000         eucalypt         leaf&seedpod         21/08/2008           H11774         662700         8006400         ryegrass         stalk/leaf         21/08/2008           H11775         662700         8006300         eucalypt         leaf         21/08/2008           H11776         662700         8006200         eucalypt         leaf         21/08/2008           H11777         662700         8006100         eucalypt         leaf         21/08/2008           H11778         662700         8006000         eucalypt         leaf         21/08/2008           H11780         662700         8005800         eucalypt         leaf         21/08/2008           H11781         662900         8005900         eucalypt         leaf         21/08/2008           H11782         662900         8006000         eucalypt         leaf         21/08/2008	H11768	656100	8002500	eucalypt	leaf	21/08/2008
H11771         656100         8002800         eucalypt         leaf&seedpod         21/08/2008           H11772         656100         8002900         eucalypt         leaf&seedpod         21/08/2008           H11773         656100         8003000         eucalypt         leaf&seedpod         21/08/2008           H11774         662700         8006400         ryegrass         stalk/leaf         21/08/2008           H11775         662700         8006300         eucalypt         leaf         21/08/2008           H11776         662700         8006200         eucalypt         leaf         21/08/2008           H11777         662700         8006100         eucalypt         leaf         21/08/2008           H11778         662700         8006000         eucalypt         leaf         21/08/2008           H11780         662700         8005900         eucalypt         leaf         21/08/2008           H11781         662900         8005900         eucalypt         leaf         21/08/2008           H11782         662900         8006000         eucalypt         leaf         21/08/2008           H11783         662900         8006100         eucalypt         leaf         21/08/2008 <td>H11769</td> <td>656100</td> <td>8002600</td> <td>eucalypt</td> <td>leaf&amp;seedpod</td> <td>21/08/2008</td>	H11769	656100	8002600	eucalypt	leaf&seedpod	21/08/2008
H11772         656100         8002900         eucalypt         leaf&seedpod         21/08/2008           H11773         656100         8003000         eucalypt         leaf&seedpod         21/08/2008           H11774         662700         8006400         ryegrass         stalk/leaf         21/08/2008           H11775         662700         8006300         eucalypt         leaf         21/08/2008           H11776         662700         8006200         eucalypt         leaf         21/08/2008           H11777         662700         8006100         eucalypt         leaf         21/08/2008           H11778         662700         8006000         eucalypt         leaf         21/08/2008           H11780         662700         8005900         eucalypt         leaf         21/08/2008           H11781         662900         8005900         eucalypt         leaf         21/08/2008           H11782         662900         8006000         eucalypt         leaf         21/08/2008           H11783         662900         8006100         eucalypt         leaf         21/08/2008           H11784         662900         8006200         eucalypt         leaf         21/08/2008 <td>H11770</td> <td>656100</td> <td>8002700</td> <td>eucalypt</td> <td>leaf&amp;seedpod</td> <td>21/08/2008</td>	H11770	656100	8002700	eucalypt	leaf&seedpod	21/08/2008
H11773         656100         8003000         eucalypt         leaf&seedpod         21/08/2008           H11774         662700         8006400         ryegrass         stalk/leaf         21/08/2008           H11775         662700         8006300         eucalypt         leaf         21/08/2008           H11776         662700         8006200         eucalypt         leaf         21/08/2008           H11777         662700         8006100         eucalypt         leaf         21/08/2008           H11778         662700         8006000         eucalypt         leaf         21/08/2008           H11780         662700         8005900         eucalypt         leaf         21/08/2008           H11781         662900         8005900         eucalypt         leaf         21/08/2008           H11782         662900         8006000         eucalypt         leaf         21/08/2008           H11783         662900         8006100         eucalypt         leaf         21/08/2008           H11784         662900         8006200         eucalypt         leaf         21/08/2008	H11771	656100	8002800	eucalypt	leaf&seedpod	21/08/2008
H11774         662700         8006400         ryegrass         stalk/leaf         21/08/2008           H11775         662700         8006300         eucalypt         leaf         21/08/2008           H11776         662700         8006200         eucalypt         leaf         21/08/2008           H11777         662700         8006100         eucalypt         leaf         21/08/2008           H11778         662700         8006000         eucalypt         leaf         21/08/2008           H11779         662700         8005900         eucalypt         leaf         21/08/2008           H11780         662700         8005800         eucalypt         leaf         21/08/2008           H11781         662900         8005900         eucalypt         leaf         21/08/2008           H11782         662900         8006000         eucalypt         leaf         21/08/2008           H11783         662900         8006100         eucalypt         leaf         21/08/2008           H11784         662900         8006200         eucalypt         leaf         21/08/2008	H11772	656100	8002900	eucalypt	leaf&seedpod	21/08/2008
H11775         662700         8006300         eucalypt         leaf         21/08/2008           H11776         662700         8006200         eucalypt         leaf         21/08/2008           H11777         662700         8006100         eucalypt         leaf         21/08/2008           H11778         662700         8006000         eucalypt         leaf         21/08/2008           H11779         662700         8005900         eucalypt         leaf         21/08/2008           H11780         662700         8005800         eucalypt         leaf         21/08/2008           H11781         662900         8005900         eucalypt         leaf         21/08/2008           H11782         662900         8006000         eucalypt         leaf         21/08/2008           H11783         662900         8006100         eucalypt         leaf         21/08/2008           H11784         662900         8006200         eucalypt         leaf         21/08/2008	H11773	656100	8003000	eucalypt	leaf&seedpod	21/08/2008
H11776         662700         8006200         eucalypt         leaf         21/08/2008           H11777         662700         8006100         eucalypt         leaf         21/08/2008           H11778         662700         8006000         eucalypt         leaf         21/08/2008           H11779         662700         8005900         eucalypt         leaf         21/08/2008           H11780         662700         8005800         eucalypt         leaf         21/08/2008           H11781         662900         8005900         eucalypt         leaf         21/08/2008           H11782         662900         8006000         eucalypt         leaf         21/08/2008           H11783         662900         8006100         eucalypt         leaf         21/08/2008           H11784         662900         8006200         eucalypt         leaf         21/08/2008	H11774	662700	8006400	ryegrass	stalk/leaf	21/08/2008
H11777         662700         8006100         eucalypt         leaf         21/08/2008           H11778         662700         8006000         eucalypt         leaf         21/08/2008           H11779         662700         8005900         eucalypt         leaf         21/08/2008           H11780         662700         8005800         eucalypt         leaf         21/08/2008           H11781         662900         8005900         eucalypt         leaf         21/08/2008           H11782         662900         8006000         eucalypt         leaf         21/08/2008           H11783         662900         8006100         eucalypt         leaf         21/08/2008           H11784         662900         8006200         eucalypt         leaf         21/08/2008	H11775	662700	8006300	eucalypt	leaf	21/08/2008
H11778       662700       8006000       eucalypt       leaf       21/08/2008         H11779       662700       8005900       eucalypt       leaf       21/08/2008         H11780       662700       8005800       eucalypt       leaf       21/08/2008         H11781       662900       8005900       eucalypt       leaf       21/08/2008         H11782       662900       8006000       eucalypt       leaf       21/08/2008         H11783       662900       8006100       eucalypt       leaf       21/08/2008         H11784       662900       8006200       eucalypt       leaf       21/08/2008	H11776	662700	8006200	eucalypt	leaf	21/08/2008
H11779       662700       8005900       eucalypt       leaf       21/08/2008         H11780       662700       8005800       eucalypt       leaf       21/08/2008         H11781       662900       8005900       eucalypt       leaf       21/08/2008         H11782       662900       8006000       eucalypt       leaf       21/08/2008         H11783       662900       8006100       eucalypt       leaf       21/08/2008         H11784       662900       8006200       eucalypt       leaf       21/08/2008	H11777	662700	8006100	eucalypt	leaf	21/08/2008
H11780       662700       8005800       eucalypt       leaf       21/08/2008         H11781       662900       8005900       eucalypt       leaf       21/08/2008         H11782       662900       8006000       eucalypt       leaf       21/08/2008         H11783       662900       8006100       eucalypt       leaf       21/08/2008         H11784       662900       8006200       eucalypt       leaf       21/08/2008	H11778	662700	8006000	eucalypt	leaf	21/08/2008
H11781       662900       8005900       eucalypt       leaf       21/08/2008         H11782       662900       8006000       eucalypt       leaf       21/08/2008         H11783       662900       8006100       eucalypt       leaf       21/08/2008         H11784       662900       8006200       eucalypt       leaf       21/08/2008	H11779	662700	8005900	eucalypt	leaf	21/08/2008
H11782       662900       8006000       eucalypt       leaf       21/08/2008         H11783       662900       8006100       eucalypt       leaf       21/08/2008         H11784       662900       8006200       eucalypt       leaf       21/08/2008	H11780	662700	8005800	eucalypt	leaf	21/08/2008
H11783       662900       8006100       eucalypt       leaf       21/08/2008         H11784       662900       8006200       eucalypt       leaf       21/08/2008	H11781	662900	8005900	eucalypt	leaf	21/08/2008
H11784 662900 8006200 eucalypt leaf 21/08/2008	H11782	662900	8006000	eucalypt	leaf	21/08/2008
	H11783	662900	8006100	eucalypt	leaf	21/08/2008
H11785 662900 8006300 eucalypt leaf 21/08/2008	H11784	662900	8006200	eucalypt	leaf	21/08/2008
	H11785	662900	8006300	eucalypt	leaf	21/08/2008

SAMPLE ID	UTM EAST	UTM NORTH	SPECIES	ORGAN	DATE
H11786	662900	8006400	eucalypt	leaf	21/08/2008
H11787	662900	8006500	eucalypt	leaf	21/08/2008
H11788	660500	8005600	ryegrass	stalk/leaf	21/08/2008
H11789	660500	8005700	ryegrass	stalk/leaf	21/08/2008
H11790	660500	8005800	ryegrass	stalk/leaf	21/08/2008
H11791	660500	8005900	ryegrass	stalk/leaf	21/08/2008
H11792	660500	8006000	ryegrass	stalk/leaf	21/08/2008
H11793	660500	8006100	ryegrass	stalk/leaf	21/08/2008
H11794	660500	8006200	ryegrass	stalk/leaf	21/08/2008
H11795	660300	8006100	ryegrass	stalk/leaf	21/08/2008
H11796	660300	8006000	ryegrass	stalk/leaf	21/08/2008
H11797	660300	8005900	ryegrass	stalk/leaf	21/08/2008
H11798	660300	8005800	ryegrass	stalk/leaf	21/08/2008
H11799	660300	8005700	ryegrass	stalk/leaf	21/08/2008
H11863	660300	8005600	ryegrass	stalk/leaf	21/08/2008
H11864	660300	8005500	ryegrass	stalk/leaf	21/08/2008
H11865	665300	8007050	eucalypt	leaf&seedpod	24/08/2008
H11866	665300	8006950	eucalypt	leaf	24/08/2008
H11867	665300	8006850	eucalypt	leaf&seedpod	24/08/2008
H11868	665300	8006750	eucalypt	leaf	24/08/2008
H11869	665300	8006650	eucalypt	leaf	24/08/2008
H11870	665300	8006550	eucalypt	leaf	24/08/2008
H11871	665300	8006450	eucalypt	leaf	24/08/2008
H11871	665100	8006350	eucalypt	leaf	24/08/2008
H11873	665100	8006450	• •		24/08/2008
	665100	8006550	eucalypt	leaf leaf	
H11874			eucalypt		24/08/2008
H11875 H11876	665100	8006650	eucalypt	leaf	24/08/2008
	665100	8006750	eucalypt	leaf	24/08/2008
H11877	665100	8006850	eucalypt	leaf	24/08/2008
H11878	665100	8006950	eucalypt	leaf	24/08/2008
H11879	664900	8012850	ryegrass	stalk/leaf	24/08/2008
H11880	664900	8012750	ryegrass	stalk/leaf	24/08/2008
H11881	664900	8012650	ryegrass	stalk/leaf	24/08/2008
H11882	664900	8012550	ryegrass	stalk/leaf	24/08/2008
H11883	664900	8012450	ryegrass	stalk/leaf	24/08/2008
H11884	664900	8012350	ryegrass	stalk/leaf	24/08/2008
H11885	664900	8012250	ryegrass	stalk/leaf	24/08/2008
H11886	664700	8012150	ryegrass	stalk/leaf	24/08/2008
H11887	664700	8012250	ryegrass	stalk/leaf	24/08/2008
H11888	664700	8012350	ryegrass	stalk/leaf	24/08/2008
H11889	664700	8012450	ryegrass	stalk/leaf	24/08/2008
H11890	664700	8012550	ryegrass	stalk/leaf	24/08/2008
H11891	664700	8012650	ryegrass	stalk/leaf	24/08/2008
H11892	664700	8012750	ryegrass	stalk/leaf	24/08/2008
H11893	666700	8012750	ryegrass	stalk/leaf	24/08/2008

SAMPLE ID	UTM_EAST	UTM_NORTH	SPECIES	ORGAN	DATE
H11894	666700	8012650	ryegrass	stalk/leaf	24/08/2008
H11895	666700	8012550	ryegrass	stalk/leaf	24/08/2008
H11896	666700	8012450	ryegrass	stalk/leaf	24/08/2008
H11897	666700	8012350	ryegrass	stalk/leaf	24/08/2008
H11898	666700	8012250	ryegrass	stalk/leaf	24/08/2008
H11899	666700	8012150	ryegrass	stalk/leaf	24/08/2008
H12762	666900	8012250	ryegrass	stalk/leaf	24/08/2008
H12763	666900	8012350	ryegrass	stalk/leaf	24/08/2008
H12764	666900	8012450	ryegrass	stalk/leaf	24/08/2008
H12765	666900	8012550	ryegrass	stalk/leaf	24/08/2008
H12766	666900	8012650	ryegrass	stalk/leaf	24/08/2008
H12767	666900	8012750	ryegrass	stalk/leaf	24/08/2008
H12768	666900	8012850	ryegrass	stalk/leaf	24/08/2008

**Table 1:** Sample number, location and description of rockchip sample collected on EL24115/95 during August 2008.

SAMPLE ID	UTM_EAST	UTM_NORTH	DESCRIPTION	DATE
H12769	664700	8012350	brecciated quartz	20/08/2008



# EXPLORATION LICENCE 24115, 24195-6 BOWGAN PROJECT

# REPORT DETAILING SITE REHABILITATION WORKS COMPLETED DURING AUGUST 2008

Walhallow, Brunette Downs 1:250,000 Map Sheets

Registered titleholder: Marengo Mining Limited

Prepared by: G. Price September 2008

(ALS)		Stafford Brisbane QLD 4053 Phone: +61 (7) 3243 7222 Fax: +61 (7) 3243 7218 www.alschemex.com	3 7222 Fax:	+61 (7) 3243	7218 www.a	ilschemex.cc	mc mc	를 L	Project: Bowgan	CERTIF	CATE	OF ANA	n CERTIFICATE OF ANALYSIS AS08127764	AS084	27764	
		20 (1) 10: 10:		20 (1) 10						CENT	מאור בי	200	11 313	2000	10117	
Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Ag Ppm 1	ME-MS81 Ba ppm 0.5	ME-MS81 Ce ppm 0.5	ME-MS81 Co ppm 0.5	ME-MS81 Cr ppm 10	ME-MS81 Cs ppm 0.01	ME-MS81 Cu ppm 5	ME-MS81 Dy ppm 0.05	ME-MS81 Er ppm 0.03	ME-MS81 Eu ppm 0.03	ME-MS81 Ga ppm 0.1	ME-MS81 Gd ppm 0.05	ME-MS81 Hf ppm 0.2	ME-MS81 Ho ppm 0.01
H12769		10.	⊽	1745	35.0	2.2	50	0.67	<b>4</b>	1.28	0.71	0.56	5.5	1.90	2.	0.23
				E .	,							1200 J	* * * \	. 5		

	. A	Brisbane QLD 4053 Phone: +61 (7) 3243 7222		Fax: +61 (7) 3243 7218 www.alschemex.com	7218 www.a	alschemex.co	шо	Ш		CERTIF	CERTIFICATE OF ANALYSIS	OF ANA	LYSIS	AS08127764	27764	
Sample Description	Method Analyte Units LOR	ME-MS81 La ppm 0.5	ME-MS81 Lu ppm 0.01	ME-MS81 Mo ppm 2	ME-MS81 Nb ppm 0.2	ME-MS81 Nd ppm 0.1	ME-MS81 Ni ppm 5	ME-MS81 Pb ppm 5	ME-MS81 Pr ppm 0.03	ME-MS81 Rb ppm 0.2	ME-MS81 Sm ppm 0.03	ME-MS81 Sn ppm	ME-MS81 Sr ppm 0.1	ME-MS81 Ta ppm 0.1	ME-MS81 Tb ppm 0.01	ME-MS81 Th ppm 0.05
H12769		21.0	0.10	8	<del>z.</del>	12.4	₩	<b>9</b>	99:	2.5	5.00	7	992	0.7	0.24	

	4	Phone: +61 (7) 3243 7222 Fax: +61 (7) 3243 7218 www.alschemex.com	3 7222 Fax:	+61 (7) 3243	7218 www.8	alschemex.c	moc			CERTIFICATE OF ANALYSIS A	AS08127764
Sample Description	Method Analyte Units LOR	ME-MS81 TI ppm 0.5	ME-MS81 Tm ppm 0.01	ME-MS81 U ppm 0.05	ME-MS81 V ppm	ME-MS81 W ppm	ME-MS81 Y ppm 0.5	ME-MS81 Yb ppm 0.03	ME-MS81 Zn ppm 5	ME-MS81 Zr ppm 2	
H12769		40.5	0.07	0.47	25	₹	ο, &	0.63	5	41	