



## ASX ANNOUNCEMENT

30 November 2011

ASX Code: DTM

### Investment Data

Shares on issue	142.1m
Listed options	15.4m
Unlisted options	8.35m

### Shareholders

Top 20 Hold **38.9%**

### Key Projects / Metals

- Unicorn Porphyry Mo-Cu-Ag
- Morgan Porphyry Mo-Ag-Au
- Mountain View Lode – Au

**Mo** – Molybdenum

**Cu** – Copper

**Au** – Gold

**Ag** – Silver

### Board & Management

#### Chairman

Mr Chris Bain

#### Managing Director

Mr Lindsay Ward

#### Executive Directors

Mr Dean Turnbull  
Manager – Exploration

#### Non-Executive Directors

Mr Stephen Poke  
Mr Richard Udovenya

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## REGIONAL GEOCHEMISTRY EXPOSES FURTHER POTENTIAL WITHIN THE UNICORN – MORGAN CORRIDOR

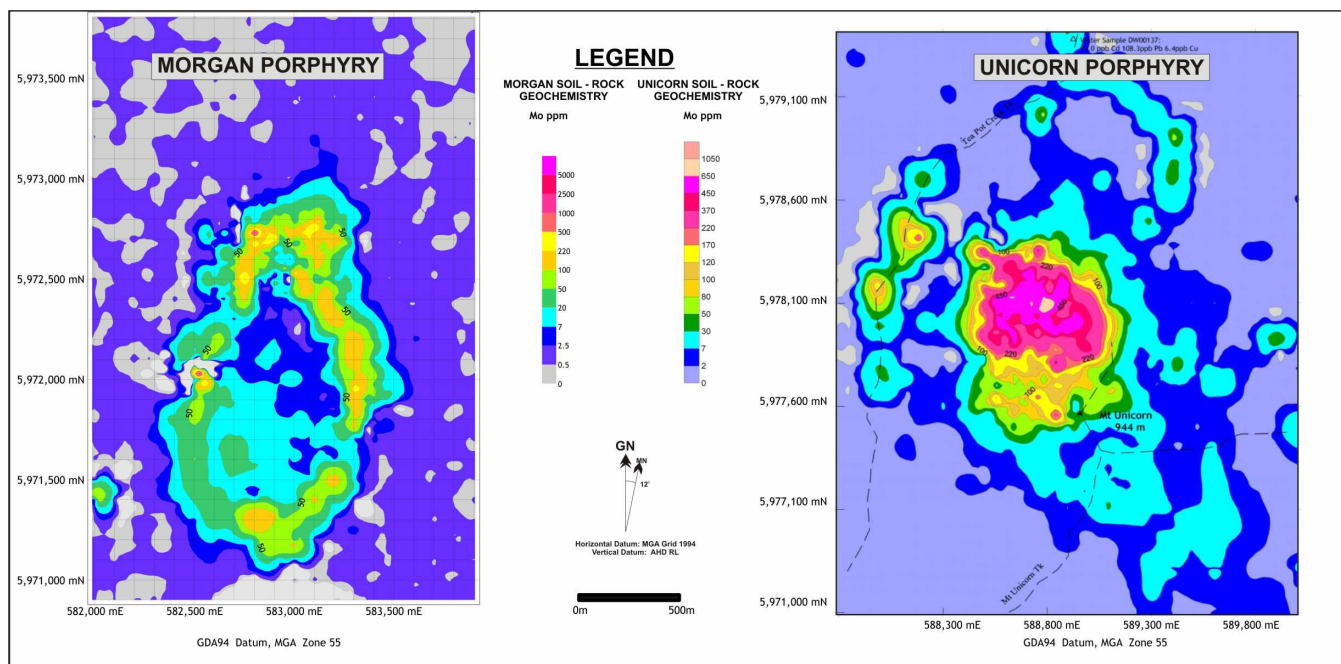
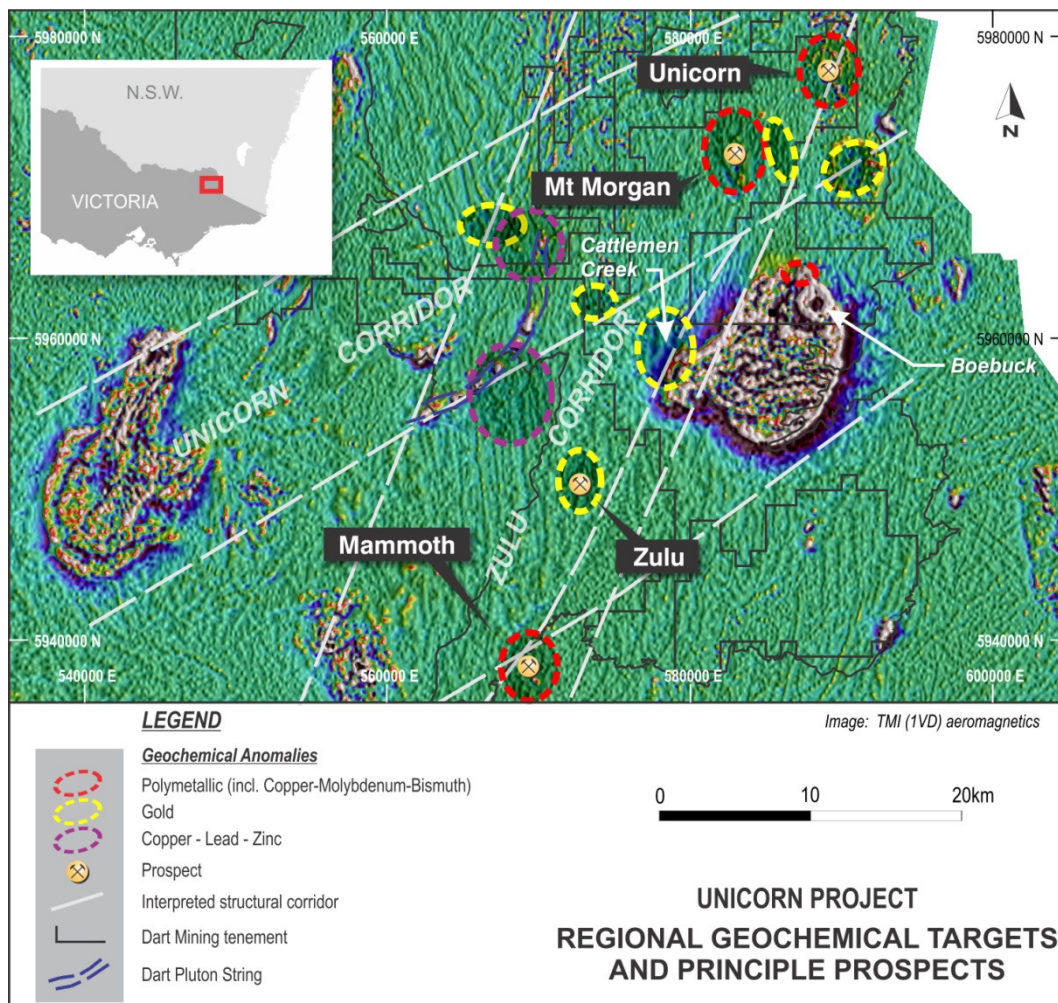
- **Regional geochemistry re-confirms prospectivity of Unicorn - Morgan structural corridor**
- **Potential for additional “blind’ porphyry deposits remains very strong**
- **Heli-born geophysics recommended to identify additional porphyry clusters**
- **Gold geochemical anomaly identified at Cattleman Creek. The gold source is unknown**
- **Porphyry targets now ranked, future exploration to be highly targeted allowing tenement area reduction**

Dart Mining NL (ASX : DTM) previously advised the ASX (refer June 2012 Quarterly Report), that it had completed an extensive geochemical exploration program, primarily comprising stream sediment sampling, across the northern half of its tenements, an area of approximately 1400sqKm. In addition to this, historical geochemistry, mining records and aerial geophysics data has been revisited in the southern half of the tenements. This has enabled a complete re-assessment of the prospectivity of Dart Mining’s tenements in NE Victoria to be carried out. This will, ensure future exploration is targeted and will enable some tenements to be reduced in size.

Dart Mining’s exploration team has worked closely with an experienced independent Consulting Geologist to review the available data and has spent considerable time in the field confirming the existence of the anomalous areas identified by the geochemical program, satellite imagery and the review of available historical data.

The peer review has confirmed the highly prospective nature of the Unicorn – Morgan structural corridor (refer diagram below) which has highlighted additional magnetic and topographic anomalies that clearly warrant follow up field work. . The anomalies defined from a review of the regional geochemistry highlights the highly prospective nature of the intersection of the Zulu and Unicorn – Morgan structural corridors (see diagram below), an area of some 400 sqkm. The targets along these structural corridors are in addition to Dart Mining’s principle project the Unicorn Mo + Cu + Ag deposit as well as the previously identified Morgan porphyry project which also outcrops. In addition to these two out cropping mineralised porphyries the stream sediment sampling program identified Cu + Pb + Zn anomalies around the Dart Pluton String, within the same Unicorn - Morgan structural corridor which may represent additional mineralised porphyry opportunities.

In light of the interpretation of the full geochemical and geophysical dataset over the northern half of the tenements, a review of the Morgan Porphyry prospect geochemical signature suggests that previous drilling has only passed through the upper part of an extensive mineralised system. A 3 km by 2 km soil grid across Morgan has shown extensive anomalous zones of Tin, Bismuth and Tellurium (in addition to Mo / Cu / Ag / Au) which are typically used as exploration markers for mineralised porphyries around the World. Dart Mining maintains a very positive outlook for Morgan especially as it is only 7 km from the Unicorn deposit. For comparison the Unicorn and Morgan geochemical grids are presented below at the same scale, this illustrates the very significant dimensions of molybdenum anomalism defined at Morgan but the lower intensity Mo expressed at surface suggests a deeper system than at Unicorn.





The nature of Climax style porphyry intrusives is that they typically occur in clusters with fingers of igneous rock (porphyry) pushing up from the more deeply buried magma chamber, some of which are expressed on surface like Unicorn and Morgan whilst others remain hidden below the surface as “blind deposits” and as such do not express a geochemical footprint that can be identified by regional scale stream sediment sampling.

The Unicorn – Morgan structural corridor contains a number of unexplored topographic highs and multiple discrete spot magnetic highs that offer the greatest probability for further discoveries of other mineralised porphyritic stocks similar and in close proximity to Unicorn. Dart is currently evaluating the application of a heli-borne, geophysics survey over an area covering approximately 18 kilometres by 10 kilometres (corresponding with the Unicorn – Morgan Corridor). Targets can be ranked and prioritized for follow up by mapping, soil and rock sampling and possible further alteration studies and ground based geophysics.

The geochemical and historical data review also re-confirmed the high potential of the North Mammoth project in the very south of Dart Mining’s tenements. Dart Mining drilled the North Mammoth prospect to determine if the host quartz feldspar porphyry (of similar composition to the Unicorn porphyry) persisted below a major regional thrust fault into the Dart EL (EL 4726). Drilling intersected the porphyry below the fault, indicating the system continues into the tenement toward a further target area known as Donovan’s Hill. Historic diamond drilling into the Mammoth Porphyry by Pan Australian Mining Ltd (1983) to the south (now within National Park) intersected some 74m @ 0.44 g/t Au (hole B6) with additional zones of significant silver, copper and zinc mineralisation. This area is quite remote and adjacent to the National Park; however it does have the strongest Mo-Cu-Bi geochemistry anomaly after Unicorn and rates as a first class porphyry target, warranting further exploration.

An interesting gold anomaly has been identified around the Cattleman’s Creek area, the source of which is not yet known. The highly anomalous bulk leach extractable gold (BLEG) sample yielded a result of 156ppb Au, where 10 ppb is normally considered anomalous and warranting further investigation. Whilst the Dart and associated gold fields within Dart Mining’s tenements yielded significant gold in the late 1800’s, there is no known reference to gold mining in and around the Cattleman’s creek area. This anomaly will be further explored in coming months via further infill sampling and prospecting in order to identify the source and its significance. While most of the gold systems in the region appear to be narrow, low-tonnage vein/shears (orogenic load-style) there are several other gold mineralised styles that may offer better potential for larger deposits such as intrusion-hosted and black shale-hosted types. A low key generative study may be undertaken in order to determine if potential exists for these target types within the Dart group of tenements.

A final outcome of the review recommended that as stream sediment sampling has proven to be an excellent regional exploration tool it is recommended that the southernmost portions of ELs 4726 and 5132 are covered with BLEG gold and multi-element stream sediment sampling as minimal information is available in these areas.

## **About Dart Mining**

Dart Mining NL (ASX:DTM), a Victorian-based exploration company, has discovered a new mineralised province hosting molybdenum (Mo) + copper (Cu) + silver (Ag) mineralised climax style porphyry igneous intrusive. The Dart Mining mineral province occurs within the Lachlan Fold Belt near Corryong in north east Victoria and is the only known Australian host of Climax style porphyries which are proven hosts of world class mines around the world. The Lachlan Fold Belt and Gilmore suture that cross from NSW into Dart Mining’s tenements in Victoria are proven hosts of substantial porphyry mines including North Parkes, Cadia and Ridgeway in NSW and the Benambra VMS to the south of Dart Mining’s tenements in Victoria.

Dart Mining recently announced its maiden JORC Resource for its principal project Unicorn, which has very strong geological similarities to the world class Henderson primary Mo mine in Colorado, USA. Dart Mining tenements remain largely underexplored and the potential for identifying additional mineralised porphyries is very strong.

Dart Mining also has two gold projects including Mountain View where drilling identified high-grade gold along a 150 metre strike with results including 6m @ 7.8 g/t Au (including 2m @ 19.3 g/t Au) and 4m @ 8.72 g/t Au (including 1m @ 18.75 g/t Au) as well as the Fairley’s disseminated gold prospect where drilling has confirmed the presence of a very large (up to 22 metres in width) disseminated sulphide related gold system.

## **COMPETENT PERSON’S STATEMENT**

*Information in this report that relates to a statement of Exploration Results and Mineral Resources of the Company is based on information compiled by Dean Turnbull B.App.Sc.(Geol) Hons. M. AIG. Mr Turnbull is a Director and full time employee of Dart Mining NL and has sufficient experience relevant to the style of mineralisation and type of deposits under consideration and to the activity he has undertaken to qualify as a competent person as defined in the 2004 Edition of the “Australasian Code for Reporting of Mineral Resources and Ore Reserves” (or “JORC Code”). Mr Turnbull has provided written consent to the inclusion in the report of the matters based on his information in the form and context in which it appears.*