



ASX RELEASE

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ASX: MGV

Musgrave Commences Drilling Zinc-Silver and Copper-Gold Targets at Menninnie Dam

- Drilling program to test three new targets is underway
- A minimum of 1500m of RC and Diamond drilling is planned
- Assay results expected in late January 2015

Musgrave Minerals Ltd (“Musgrave Minerals” or “the Company”) (ASX:MGV) is pleased to announce that it has commenced a drilling program to test three base metal targets at the Menninnie Dam Project in the southern Gawler Craton region of South Australia (Figure 1).

The drilling program will test both zinc-lead-silver and copper-gold targets at Erebus, Mallee and Taal in the highly prospective region. A minimum of 1500m of drilling is planned over at least three targets using a combination of reverse circulation (RC) and diamond drilling.

Managing Director Rob Waugh said “The targets all look very prospective and each is of large enough extent to potentially host significant volumes of mineralisation. All the datasets align well to support the mineralisation model and the targets.”

Musgrave Minerals entered a Joint Venture Agreement with Menninnie Metals Pty Ltd, a wholly-owned subsidiary of Terramin Australia Limited (ASX:TZN) to earn a 51% interest in the Menninnie Dam Project in the first stage, and up to 75% thereafter.

Musgrave recently completed detailed soil sampling and gravity surveys over a number of specific target areas at Menninnie Dam.

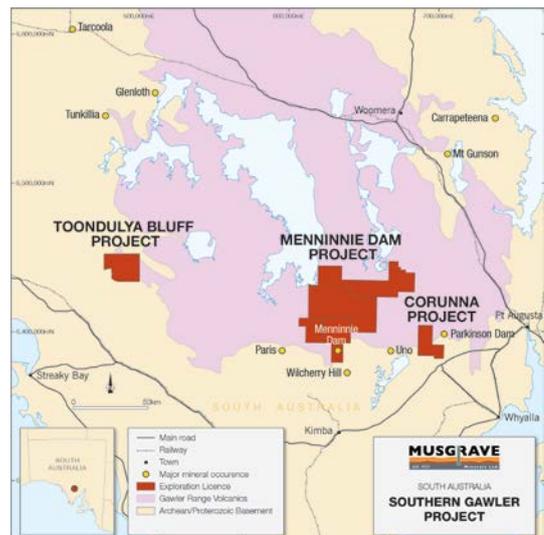


Figure 1 – Location of Menninnie Dam Project in the Southern Gawler Craton region of South Australia.

Soil geochemistry returned anomalous silver, gold and copper values at **Erebus** (Figure 2) co-incident with an induced polarization (IP) chargeability anomaly, versatile time domain electromagnetic (VTEM) response and gravity low. The geophysical characteristics of the target are similar to that at the Menninnie Central silver-lead-zinc deposit located only 4km to the north-east. A minimum of three drill holes are planned at Erebus to test individual targets within this large anomaly. Target depths vary between 60 and 150m.

The **Mallee** target is approximately 4km south of the Viper silver-lead-zinc deposit. Mallee (Figure 3) is a coincident gravity high, rimmed magnetic high and IP chargeability response with anomalous copper, lead, antimony, gold and zinc geochemistry at surface. The response is consistent with that commonly observed from copper-gold porphyry targets. A minimum of two drill holes are planned at Mallee with target depths of approximately 100 and 250m.

The **Taal** target is a coincident gravity high and VTEM anomaly located at the intersection of two significant regional structures (Figures 4a & 4b). A ground electromagnetic (EM) survey at Taal is scheduled to commence in the next two weeks. A single drill hole is planned to test this target.

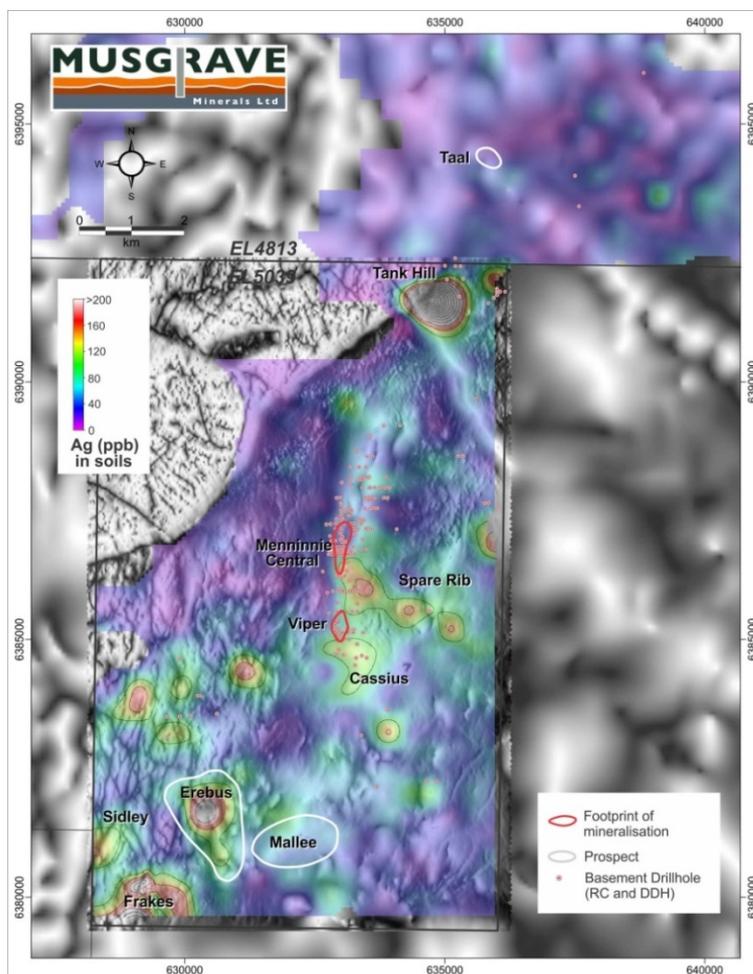


Figure 2 – Location of Menninnie Dam targets with surface silver geochemistry overlaying regional aeromagnetic data.

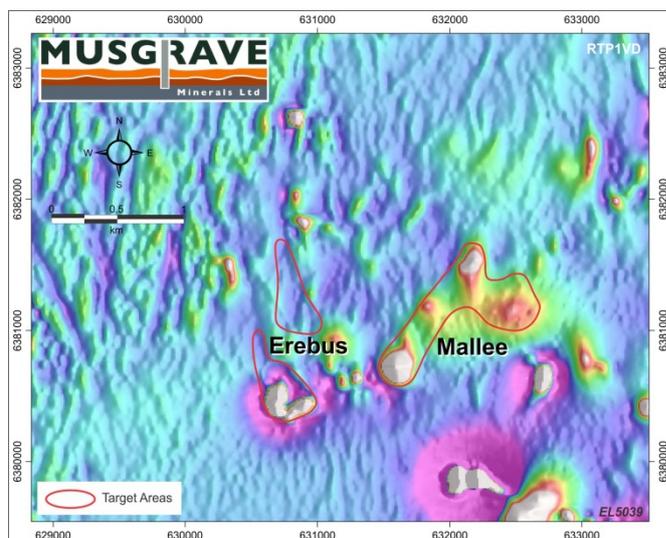


Figure 3 – Location of Erebus and Mallee targets on aeromagnetic image

No basement drilling has previously been undertaken on these targets

The drilling will involve a combination of RC and diamond methods and is estimated to take four weeks to complete. Assay results are expected in late January 2015.



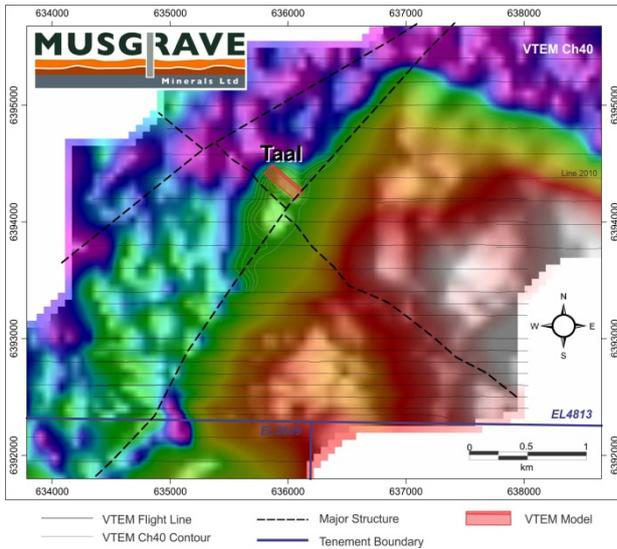


Figure 4a – Location of Taal VTEM target on conductivity image.

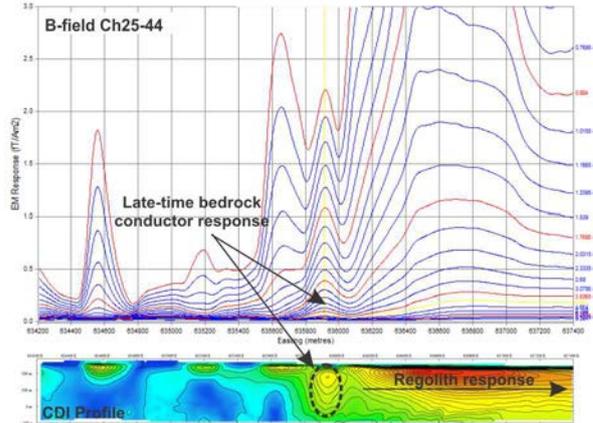


Figure 4b – CDI cross sectional profile of Taal VTEM target.

About Menninnie Dam

The Menninnie Dam Project comprises five Exploration Licences covering a contiguous area of 2,471km² in the highly sought after and prospective Gawler Craton region of South Australia (Figure 1). Menninnie Dam is located approximately 100km west of Port Augusta and is well positioned in regards to infrastructure and proximity to the coast.

The Project hosts the Menninnie Central and Viper deposits with a combined inferred mineral resource of 7.7Mt @ 27g/t Ag, 3.1% Zn, 2.6% Pb (*estimated by Terramin Australia Limited in 2011 in accordance with the 2004 JORC code).

The Menninnie Dam Project is located in a new and very prospective silver-lead-zinc province, only 20km east of Investigator Resources' 20Moz Paris silver discovery.

* JORC (2004 Edition)-compliant inferred resource for the Menninnie Central and Viper deposits was reported by Terramin Australia Limited (ASX: TZN) on 1st March 2011

Deposit	Tonnes x10 ³	Zn (%)	Pb (%)	Ag (g/t)	Pb+Zn (%)
Total Menninnie Central	5,240	3.5	2.7	28	6.1
Total Viper	2,460	2.3	2.4	24	4.8
Total Menninnie Central and Viper	7,700	3.1	2.6	27	5.7

Inferred Resource (at 2.5% Pb+Zn cut-off) as at 15 February 2011
MGV is not aware of any new information that would affect the material nature of this resource calculation.

*Competent Person's Statement

The information in this report that relates to Mineral Resources or Ore Reserves is based on information thoroughly reviewed by Mr Robert Waugh, a Competent Person who is a Fellow of the Australasian Institute of Mining and Metallurgy (AusIMM) and a Member of the Australian Institute of Geoscientists (AIG). Mr Waugh is Managing Director and a full-time employee of Musgrave Minerals Ltd. Mr Waugh has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration to qualify as a Competent Person as defined in the 2004 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Waugh consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

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Competent Person's Statement

The information in this report that relates to Exploration Targets, Exploration Results, Mineral Resources or Ore Reserves is based on information compiled and/or thoroughly reviewed by Mr Robert Waugh, a Competent Person who is a Fellow of the Australasian Institute of Mining and Metallurgy (AusIMM) and a Member of the Australian Institute of Geoscientists (AIG). Mr Waugh is Managing Director and a full-time employee of Musgrave Minerals Ltd. Mr Waugh has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Waugh consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

About Musgrave Minerals

Musgrave Minerals Ltd is an active Australian base metals explorer with a large exploration footprint in the Musgrave Province in South Australia, with tenements covering an area of approximately 50,000km². The Company also has an active advanced stage exploration project, Menninnie Dam in the prospective silver and base metals province of the southern Gawler Craton of South Australia. Musgrave has a powerful shareholder base with six mining and exploration companies participating as cornerstone investors.

Musgrave Project
JORC TABLE 1
Section 1 Sampling Techniques and Data

Criteria	Explanation	Commentary
<i>Sampling techniques</i>	<i>Nature and quality of sampling (eg cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma sondes, or handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling.</i>	Sampling is undertaken using standard industry practices. Soil Sampling -80# mesh soil samples (~100g) at a nominal 10cm depth on 100m x 50m grid.
	<i>Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.</i>	Soil sample co-ordinates are in UTM grid (GDA94 Z53) and have been measured by hand-held GPS with an accuracy of ±4 metres.
<i>Drilling techniques</i>	<i>Drill type (eg core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (eg core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or other type, whether core is oriented and if so, by what method, etc).</i>	United Drilling Services is contracted to undertake RC (reverse circulation) and diamond drilling. Diamond core will be a combination of NQ2 and HQ. Drill core is orientated using a down hole spear and structural measurements recorded in "Geo-calculator" or "Geosoft Target" software program.
<i>Drill sample recovery</i>	<i>Method of recording and assessing core and chip sample recoveries and results assessed.</i>	Diamond core recoveries are logged and recorded in the database. RC bulk sample weights are observed and noted.
	<i>Measures taken to maximise sample recovery and ensure representative nature of the samples.</i>	Diamond core is reconstructed into continuous intervals on angle iron racks for orientation and reconciliation against core block markers. Rod and metre counts are routinely carried out by the driller.
	<i>Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material.</i>	No sampling yet undertaken for this program.
<i>Logging</i>	<i>Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies.</i>	All geological, structural and alteration related observations are stored in the database.
	<i>Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.</i>	Logging of lithology, structure, alteration, mineralisation, colour and other features of core or RC chips is undertaken on a routine basis. Both wet and dry photography of diamond core is undertaken on a tray by tray basis.
	<i>The total length and percentage of the relevant intersections logged.</i>	All drill holes are logged in full on completion.
<i>Sub-sampling techniques and sample preparation</i>	<i>If core, whether cut or sawn and whether quarter, half or all core taken.</i>	Diamond core is cut and sampled on geological intervals. A diamond core saw is used to cut the core and selected half core intervals are submitted for analysis.
	<i>If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.</i>	Soil samples are collected dry and sieved using a -80# (180 micron). ~100g is collected for analysis.
	<i>For all sample types, the nature, quality and appropriateness of the sample preparation technique.</i>	Drill sample preparation and base metal and precious metal analysis is undertaken by Intertek Genalysis, in Wingfield, South Australia. Sample preparation by dry pulverisation to 90% passing 75 micron.
	<i>Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.</i>	Field QC procedures involve the use of certified reference standards, duplicates and blanks at appropriate intervals.
	<i>Measures taken to ensure that the sampling is representative of the in situ material collected, including for instance results for field duplicate/second-half sampling.</i>	Sampling will be carried out using MGV protocols and QAQC procedures as per industry best practice. Duplicate ¼ core samples are inserted and routinely checked against originals. Standards are inserted at 1 in 50 samples. Soil samples duplicates are inserted at 1 in 25 samples.
	<i>Whether sample sizes are appropriate to the grain size of the material being sampled.</i>	Sample sizes are considered appropriate for the commodities and elements explored and analysed for.
<i>Quality of assay data and laboratory tests</i>	<i>The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.</i>	Drill sample analysis is undertaken by Intertek Genalysis, in Wingfield, South Australia, multi element analysis by four acid total digest (hydrochloric, nitric, perchloric and hydrofluoric acid) and ICP-OES and ICP-MS to acceptable detection limits. Analysis for a total of 34 elements is recorded. Soil sample analysis is undertaken by Intertek Genalysis

		Perth. Internal certified laboratory QAQC is undertaken including check samples, blanks and internal standards. Samples are analysed using Intertek's proprietary Terra Leach (TL1) partial leach method (ICP-MS & ICP-OES) for Ag, Au, As, Bi, Cd, Co, Cu, La, Mo, Ni, Pb, Pd, Pt, Sb, Sn, Th, U, W and Zn.
	<i>For geophysical tools, spectrometers, handheld XRF instruments, etc, the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc.</i>	No geophysical tools were used to estimate mineral or element percentages.
	<i>Nature of quality control procedures adopted (eg standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (ie lack of bias) and precision have been established.</i>	In addition to MGV standards, duplicates and blanks, Genalysis will incorporate laboratory QAQC including standards, blanks and repeats as a standard procedure. Certified reference materials that are relevant to the type and style of mineralisation targeted are inserted at regular intervals.
<i>Verification of sampling and assaying</i>	<i>The verification of significant intersections by either independent or alternative company personnel.</i>	At least two company representatives verify significant intersections including either, the Managing Director, Exploration Manager, Principal Geologist or Senior Geologist.
	<i>The use of twinned holes.</i>	No twin holes have yet been drilled by MGV.
	<i>Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.</i>	Primary data is collected using a standard set of Excel templates on a Toughbook laptop computer using lookup codes. Geological sample logging is undertaken on one metre intervals for aircore drilling with colour, structure, alteration and lithology recorded for each interval. Data is verified before loading to a CSA Global database. Geological logging of all samples is undertaken.
	<i>Discuss any adjustment to assay data.</i>	No adjustments or calibrations are made to any assay data reported by MGV.
<i>Location of data points</i>	<i>Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation.</i>	All maps and locations are in UTM grid (GDA94 Z53) and have been measured by hand-held GPS with an accuracy of ± 4 metres. Down hole surveys will be undertaken at nominal 30m intervals using a digital down hole camera.
	<i>Specification of the grid system used.</i>	Drill hole co-ordinates are in UTM grid (GDA94 Z53)
	<i>Quality and adequacy of topographic control.</i>	Drill hole RL's are approximate using hand held GPS.
<i>Data spacing and distribution</i>	<i>Data spacing for reporting of Exploration Results.</i>	Variable drill hole spacings are used to adequately test targets.
	<i>Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied.</i>	The mineralisation has not yet been demonstrated to have sufficient continuity to support the definition of Mineral Resource and Reserves under the classification applied under the 2012 JORC Code.
	<i>Whether sample compositing has been applied.</i>	No sample compositing has been undertaken on diamond core or soil samples.
<i>Orientation of data in relation to geological structure</i>	<i>Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.</i>	The precise dip and strike of the mineralisation is not yet known and it is unclear at this stage whether any sampling has a set bias.
	<i>If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material.</i>	No orientation based sampling bias is known at this time.
<i>Sample security</i>	<i>The measures taken to ensure sample security.</i>	Chain of custody is managed by MGV. Drill samples will be stored on site and transported to Intertek Genalysis in Wingfield, South Australia by a licenced reputable transport company. When at Genalysis samples are stored in a locked yard before being processed and tracked through preparation and analysis using the Lab Track system. Soil Samples are collected in individually numbered paper packets and packed into cardboard boxes for transport. MGV staff deliver samples to Intertek Adelaide for dispatch to Intertek laboratory in Perth.
<i>Audits or reviews</i>	<i>The results of any audits or reviews of sampling techniques and data.</i>	No external audits or reviews of modeling techniques and data have been undertaken.

Section 2 Reporting of Exploration Results

Criteria	Explanation	Commentary
Mineral tenement and land tenure status	<i>Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings.</i>	All drilling and soil sampling will be within joint venture tenement EL5039 and EL4813 within the Menninnie Dam Project area. MGV is earning an initial 51% interest in the project with TZN. The current targets being drilled on EL5039 and EL4813 and soil samples are within the Nonning Pastoral Lease. A Part B Agreement has been signed with the Gawler Ranges Native Title Group and current exploration areas cleared for exploration activities.
	<i>The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area.</i>	The tenements are in good standing and no known impediments exist.
Exploration done by other parties	<i>Acknowledgment and appraisal of exploration by other parties.</i>	Some historical drilling has been undertaken in different areas on the tenements by MGV and third parties but none is directly relevant to the current targets. Some previous broader based (400m x 400m) soil sampling has been done by MGV at these targets.
Geology	<i>Deposit type, geological setting and style of mineralisation.</i>	Geology comprises Proterozoic metasediments that have been intruded by Hiltaba-suite granitoids and overlain by lower sequences of the Gawler Range Volcanics. Musgrave is exploring for multi commodity style deposits consistent with an interpreted porphyry-epithermal type model.
Drill hole Information	<i>A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes:</i> <ul style="list-style-type: none"> • easting and northing of the drill hole collar • elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar • dip and azimuth of the hole • down hole length and interception depth • hole length. 	Drill hole information will be reported when drilling is completed and assays received.
Data aggregation methods	<i>In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (eg cutting of high grades) and cut-off grades are usually Material and should be stated.</i>	Drilling has just commenced and results will be reported once received.
	<i>Where aggregate intercepts incorporate short lengths of high grade results and longer lengths of low grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail.</i>	Drilling has just commenced and results will be reported once received.
	<i>The assumptions used for any reporting of metal equivalent values should be clearly stated.</i>	No metal equivalent values are currently used for reporting of exploration results.
Relationship between mineralisation widths and intercept lengths	<i>These relationships are particularly important in the reporting of Exploration Results.</i> <i>If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.</i> <i>If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (eg ‘down hole length, true width not known’).</i>	Drilling has just commenced and results will be reported once received.
Diagrams	<i>Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported These should include, but not be limited to a plan view of drill hole collar locations and appropriate</i>	Refer to figures in body of this announcement.

	<i>sectional views.</i>	
<i>Balanced reporting</i>	<i>Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practiced to avoid misleading reporting of Exploration Results.</i>	Drilling has just commenced and results will be reported once received.
<i>Other substantive exploration data</i>	<i>Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observations; geophysical survey results; geochemical survey results; bulk samples – size and method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances.</i>	All material results from geochemical and geophysical surveys and drilling related to these prospects has been reported or discussed. Gravity data was collected using a CG5 gravity meter and differential GPS at a station spacing of 100x200-400m.
<i>Further work</i>	<i>The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale step-out drilling).</i>	A range of exploration techniques will be considered to progress exploration on the completion of the current program.
	<i>Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.</i>	Refer to figures in the body of this announcement.

