

Lodestar Minerals Limited

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Website

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22 February 2011

ASX Limited

By Electronic Lodgement

Dear Sirs,

RE: PEAK HILL PROJECT

Please find attached a copy of a company presentation for Lodestar Minerals Limited.

Yours faithfully

Bill Clayton

Managing Director

Layte.

LODESTAR MINERALS LIMITED

COMPANY PRESENTATION







February 2011

Disclaimer



Forward Looking Statements

Forward Looking Statements: This document may include forward-looking statements. Forward-looking statements include, but are not limited to, statements concerning Lodestar Minerals' exploration program and other statements that are not historical facts. When used in this document, the words such as "could", "plan", "estimate", "expect", "intend", "may", "potential", "should" and similar expressions are forward-looking statements. Although Lodestar Minerals believes that its expectations reflected in these forward-looking statements are reasonable, such statements involve risks and uncertainties and no assurance can be given that actual results will be consistent with these forward-looking statements.

JORC Compliance

The information in this report to which this statement is attached that relates to Exploration Results, Mineral Resources or Ore Reserves is based on information compiled by Mr Bill Clayton who is a member of the Australian Institute of Geoscientists. Bill Clayton is a full-time employee of the Company. Bill Clayton has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2004 Edition of the "Australasian Code for the reporting of Exploration Results, Mineral Resources and Ore Reserves". Bill Clayton consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

Corporate Snapshot



ASX code:

LSR

Issued Capital:

89 million shares 6 million unlisted options

Cash:

\$2.79 million

Market capitalisation @ \$0.12 \$11 million

Top 20 Shareholders: 38%

Board & Management

Rhod Grivas (Chairman)

Bill Clayton (Managing Director)

Mark Pitt (Non-Executive Director)

David McArthur (Executive Director & Company Secretary)

12 month Share Price Performance				
Low	High	Current		
0.07	0.19	0.12		

Share Price Targets – Competitor Comparison



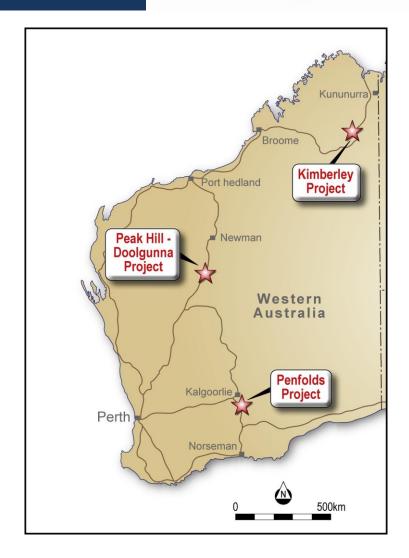
Company	Commodity	Status	Market Cap \$M
Sandfire	Cu-Au	Resource (Cu-Au)	1,1021
RNI	Cu-Au	Exploration	140
Talisman	Cu-Au	Exploration	123
Thundelarra	Cu-Au	Exploration	96
Alchemy	Au, Cu-Au	Resource (Au)	40
Sipa	Au, Cu-Au	Exploration	38
Great Western	Cu-Au	Exploration	28
Lodestar	Cu-Au	Exploration	11

☐ Sandfire demonstrates the success case in this province

Peak Hill-Doolgunna Investment Opportunity



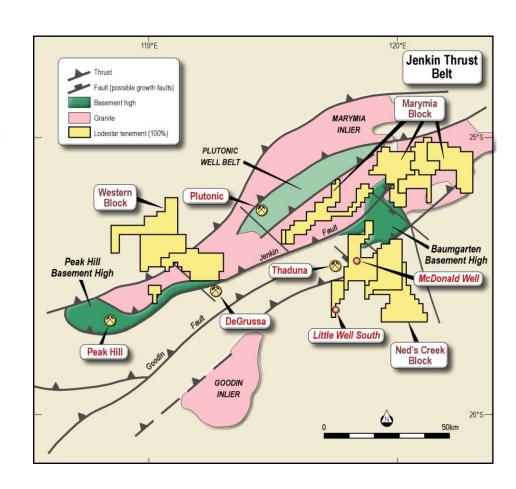
- A large, strategic tenement holding (2200sq km) in a new and under-explored, growing base metal province
- Prospectivity on a par or better than many higher capped competitors
- Funded for intensive exploration in 2011
- Lowest market cap entry into the province
- Major share price growth potential early exploration stage project with multiple regional and prospect scale targets
- Primary exploration focus:
 - Sediment-hosted Cu
 - Sediment-hosted Pb-Zn-Aq
 - Lode Au
 - Calcrete U



Jenkin Thrust Belt – a New Base Metal Province



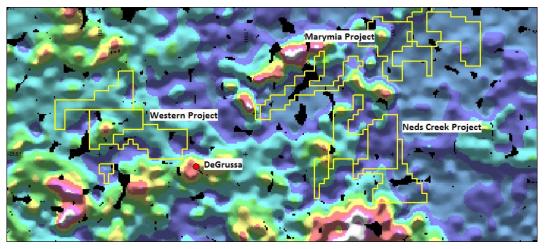
- Host to Sandfire's DeGrussa discovery, potentially the first major discovery in a new base metal province
- Base metal & gold mineralisation recorded at numerous locations over 100-150 kilometres
- Limited exploration & geological knowledge
- Lodestar's tenements include prospective basin sequences (fluids), major structures (fluid transfer) and buried magmatic centres (heat flow) conducive to ore formation
- Prospective Geological Environments
 Lower Yerrida Gp Sediment-hosted Cu; SEDEX
 Pb-Zn-Ag
 Upper Yerrida Gp, Bryah Gp VMS Cu
 Archaean Lode Au



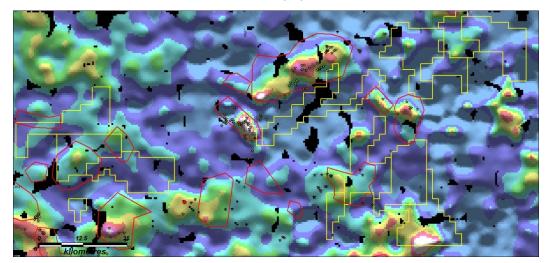
Jenkin Thrust Belt – Regional Geochemistry



- GSWA regional regolith sampling— Cu distribution (raw data) influenced by regolith domain, bed rock composition, iron content
- GSWA sampling successfully identifies exploration targets at the regional scale (MINEDEX gold and base metal prospects/deposits shown; priority targets areas outlined in red)
- Priority geochemical targets identified at Neds Creek/McDonald Well and Western Project in addition to more subtle anomalies requiring follow up sampling, eg Marymia project tenements
- Sedimentary sequences generally contain low background Cu relative to mafic-ultramafic sequences.



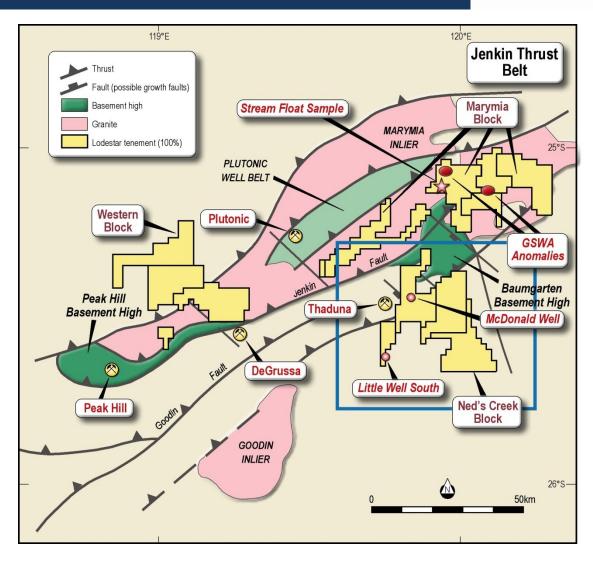
Raw data (Cu)



Leveled data (Cu) (regolith domain)

Ned's Creek Project:

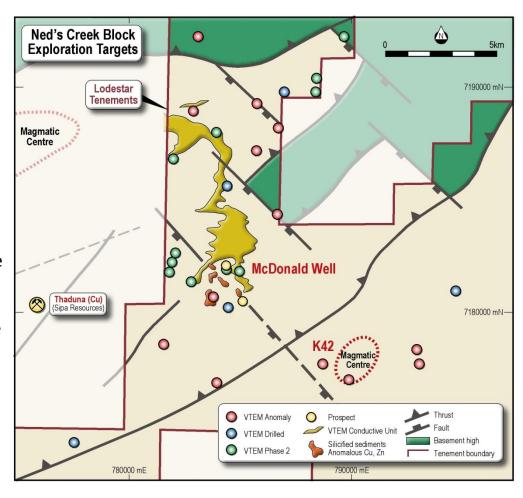




Ned's Creek Project: Exploration Opportunity



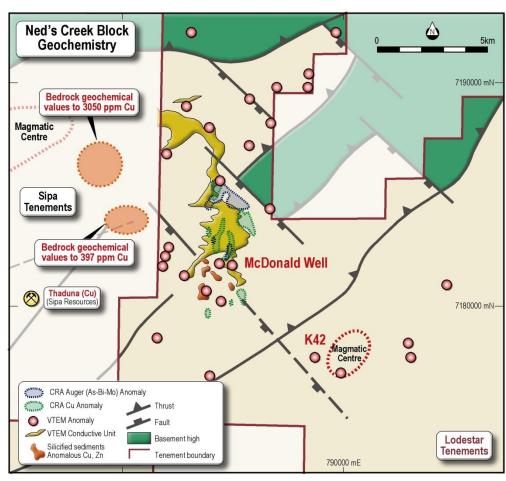
- Widespread copper mineralisation on adjacent tenements – (Thaduna deposits) is thought to represent remobilised primary mineralisation (supergene Cu – graphitequartz-carbonate gangue) – compare Red Bore/DeGrussa
- Base of Yerrida Gp contains precursor units (evaporites, red beds, carbonaceous shale) common to mineralised basin sequences
- Proximity to major structures, thermal source and basin margins - analogous structural settings commonly recognised in major
 Proterozoic base metal provinces world wide
- Target Deposit Type eg Nifty (+40Mt @ 2.4% Cu)
- VTEM identified 29 EM anomalies
 - 5 drilled
 - A further 12 confirmed by ground EM with 7 targets ranked as moderate to high priority



Ned's Creek Project: McDonald Well Prospect



- Limited historic exploration:
 - WMC rock chips to 4100ppm Cu and 1120ppm Zn, anomalous samples reported over 60 sq km
 - CRA -anomalous Cu in shallow auger drilling
- 2010 VTEM survey identifies "conductive unit" (black shale) coincident with anomalous base metal geochemistry, suitable host for sediment-hosted Cu
- >10 kilometres of prospective stratigraphy, plunging to SW, incompletely tested by geochemical sampling



Ned's Creek: Exploration Program

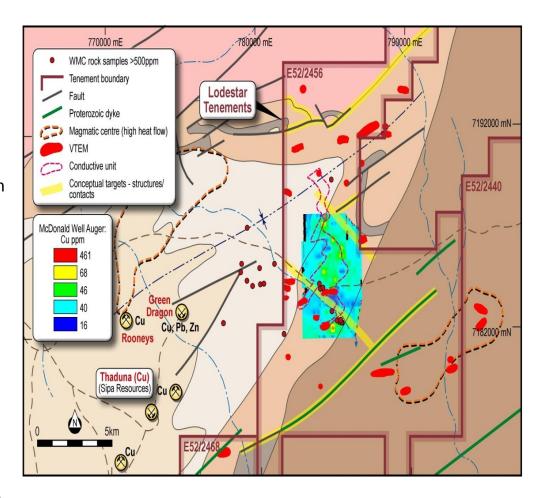


Completed

- VTEM 2010
- 5 Phase 1 RC holes
 - intersected variable thicknesses of carbonaceous, calcareous, siliceous shale and dolerite in the McDonald Well area
 - carbonaceous shale horizon beneath 60-70m of weathering, anomalous base metal, Ag, As, Sb, Bi +/- Au in shale at fresh rock interface
 - ferruginous breccia related to a major NE structure south of the Thaduna deposit (B-23 anomaly).
 Down hole EM planned

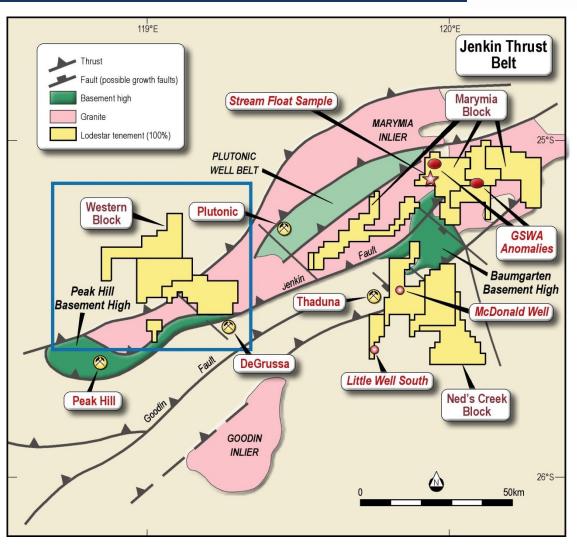
Commencing

- Extend multi-element geochemistry over entire tenement, 400m line spaced lag sampling underway – 399 samples
- Phase 2 RC Drilling to test surface EM defined targets (work program submitted)



Western Project:

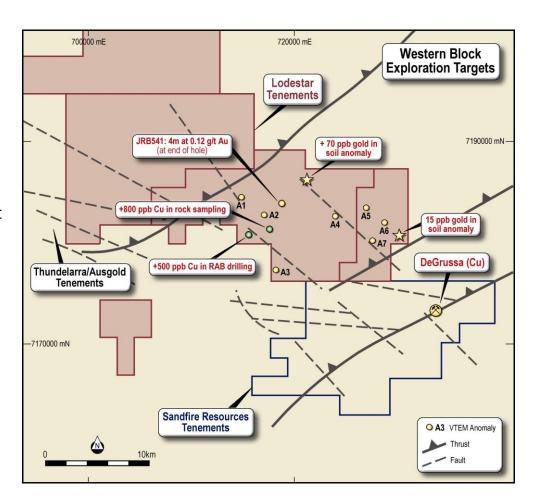




Western Project: The Exploration Opportunity



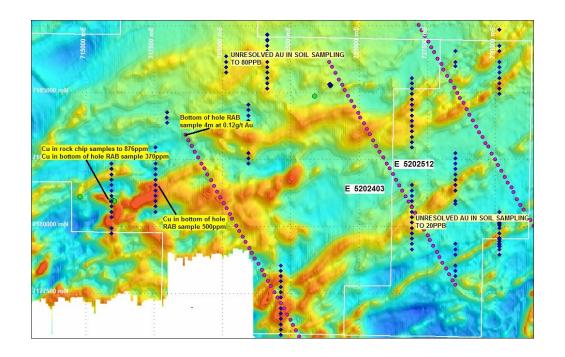
- Adjoins Sandfire tenements
- Between major gold camps, 6km NW of DeGrussa
- Historic Exploration
 - effectiveness reduced by extensive soil/hardpan cover
 - soil sampling anomalies to 80ppb Au
 - wide spaced RAB reported 4m @ 0.12g/t at end of hole (not followed up)
- Structures
 - NE trending thrust faulting
 - Anomalous Cu to 800ppm in rockchip and RAB in breccia zone
- VTEM Low amplitude anomalies identified under cover
- Untested GSWA regional geochemical anomalies
- Untested calcrete radiometric anomaly



Western Project: The Exploration Program

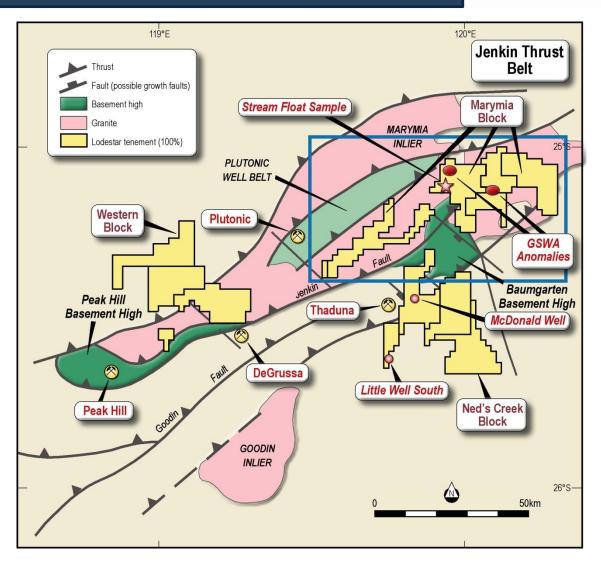


- Geochemistry
 Regional stream/soil/rock chip
 geochemistry first pass exploration
 gold, copper, base metals
 Follow up GSWA regional geochemical
 anomalies.
- Exploration under cover
 Geological / structural study identify
 geological sequence, focus on potentially
 mineralised structures and lithologies
 within Marymia Inlier/thrust zone



Marymia Project:

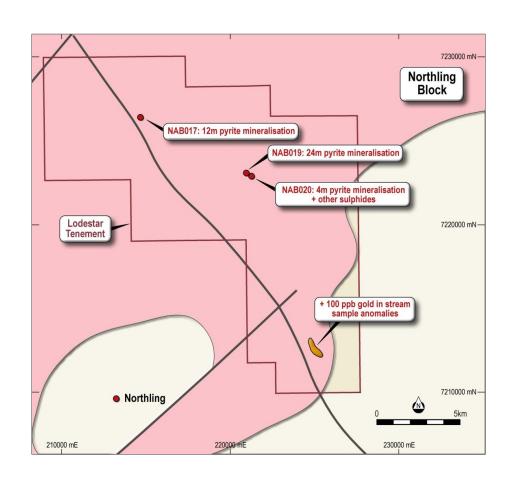




Marymia Project: The Exploration Opportunity



- Minimal base metal exploration, extensive soil cover impedes surface geochemistry
- Historic drilling indicates that cover does not exceed 4-8m depth over large areas.
- Diamond exploration intersected ultramafic/mafic basement with sulphides in historic drilling – not assayed
- Unresolved gold in stream samples to 164ppb associated with NNW – trending fault
- GSWA geochemistry identifies regional targets within tenements
- Lodestar stream float sample reporting 10g/t
 Ag and 805ppm Pb confirms mineralised
 structures in sedimentary sequence



Marymia Project: The Exploration Program



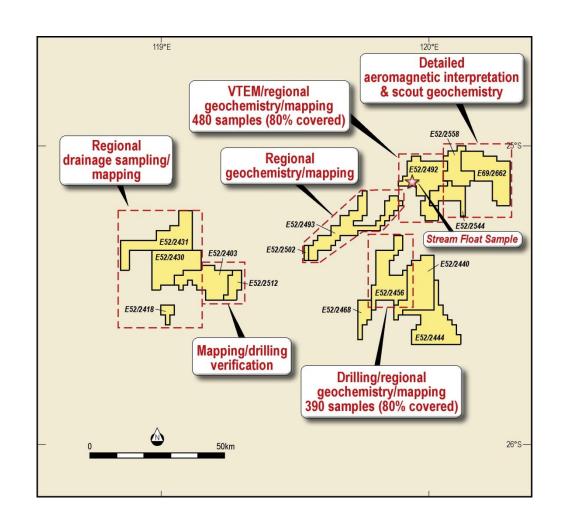
- Geochemistry
 Commence sampling programs 480
 samples
 Follow up anomalies with field checking / mapping / soil geochemistry for base metals and gold
- Aeromagnetics
 Acquire multiclient data interpretation
 & orientation geochemistry (auger/RAB)
 in areas under cover
- VTEM survey
 Cover Jenkin Thrust extension and adjacent basin sequence



Forward Plan 2011



- Funded to complete systematic exploration across the project
- Large tenement holding offers a range of prospective geological environments for precious and base metal mineralisation and exploration success
- Large areas not previously targeted for base metals (eg Marymia, Western Project)
- Multiple exploration targets defined at a regional and prospect scale



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