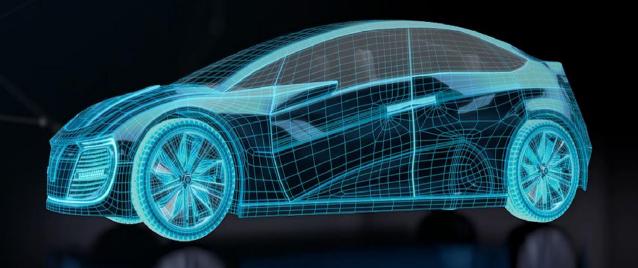


BUILDING WA'S NEXT MAJOR MANGANESE OPERATION

121 Mining Investment London November 22-23 2022

ASX:FRB





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COMPETENT PERSONS STATEMENT

The information in this report that relates to Mineral Resources is based on information compiled by Mr Mark Pudovskis and Mr Aaron Meakin. Mr Mark Pudovskis is a full-time employee of CSA Global Pty Ltd and is a Member of the Australasian Institute of Mining and Metallurgy (AusIMM). Mr Aaron Meakin is a full-time employee of CSA Global Pty Ltd and is a Member and Chartered Professional of the Australasian Institute of Mining and Metallurgy (AusIMM). Mr Mark Pudovskis and Mr Aaron Meakin have sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activity which they are undertaking to qualify as Competent Persons as defined in the 2012 edition of the Australasian Code for the Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code). Mr Mark Pudovskis and Mr Aaron Meakin consent to the disclosure of the information in this report in the form and context in which it appears. Mr Mark Pudovskis assumes responsibility for matters related to Sections 1 and 2 of JORC Table 1, while Mr Aaron Meakin assumes responsibility for matters related to Section 3 of JORC Table 1.

Dr Parry has sufficient experience of the ore sorting test work under consideration to be aware of problems that could affect the reliability of the data and to qualify as a Competent Person as defined in the 2012 Edition of the Joint Ore Reserves Committee (JORC) Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Dr Parry consents to the inclusion in this report of the matters based on information in the form and context in which they appear.

EMERGING MANGANESE DEVELOPER



- Successfully executing a growth strategy targeting production of:
 - > Manganese concentrate
 - > High purity manganese sulphate
- Well-positioned, Western Australian based portfolio, underpinned by a 229Mt Resource base, with significant growth upside
 - > Flagship Oakover project 172Mt @ 9.9%Mn
 - > 58.7Mt @10.4% Mn in Indicated Resource
 - > Hill 616
 - > 57.5 Mt @12.2% Mn Inferred Mineral Resource
- Firebird growth strategy underpinned by strong market forecasts:
 - > Growing manganese demand for battery minerals
 - > Strong long-term infrastructure (steel) market demand
- Advanced metallurgical test work and studies:
 - > Scoping Study results confirmed outstanding long-term potential of Oakover as a Manganese hub
 - > Successful concentrate metallurgical test work programs provide a high-level of confidence that a commercial product can be produced at Oakover
- Committed to advancing critical ESG objectives in alignment with development of Oakover



CORPORATE SNAPSHOT





EVAN CRANSTON Chairperson

Mr Cranston is an experienced mining executive, with a background in corporate and mining law



PETER ALLEN Managing Director

Mr Allen is a mining executive, with more than 20 years experience in marketing of manganese, lithium and a range of other commodities



WEI LI Finance Director

Mr Li is a Chartered Accountant with extensive experience in the resource industry. Mr Li managed a private base metal exploration company in the Northern Territory and assisted in commissioning a A\$150 million Electrolytic Manganese Dioxide (EMD) plant in Hunan China



ASHLEY PATTISON Non-executive Director

Mr Pattison has over 20 years' experience in the resources sector from both a corporate finance and operational perspective. Qualified as chartered accountant, he has extensive experience in operations, finance, strategy and corporate finance



BRETT GROSVENOR Non-executive Director

Mr Grosvenor is an experienced mining executive, with over 25 years' experience in the Mining and Power industry. Holding a dual tertiary qualification in Engineering and a Master in Business

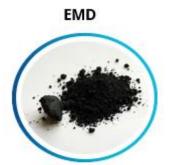
| Firebird Metals Limited | ASX:FRB |
|--|----------|
| Share price as of 14/11/22 | \$0.20 |
| Shares on issue * Excludes pending Tranche 2 of 5.6 M shares to be issued late November | 67.5 M |
| Market capitalisation | \$13.5 M |
| Options @ \$0.30 | 8 M |
| Options @ \$1 | 10 M |
| Performance rights | 3.3 M |
| Cash on Hand (30 Sept 2022) * Excludes pending Tranche 2 - Raising of \$0.92M to be completed late November | \$2.4 M |
| Major Shareholders | |
| Tolga Kumova | 8.4% |
| Mining Equities | 5.57% |
| Board (incl related parties) | 7.6% |
| & management | |

MANGANESE MARKET



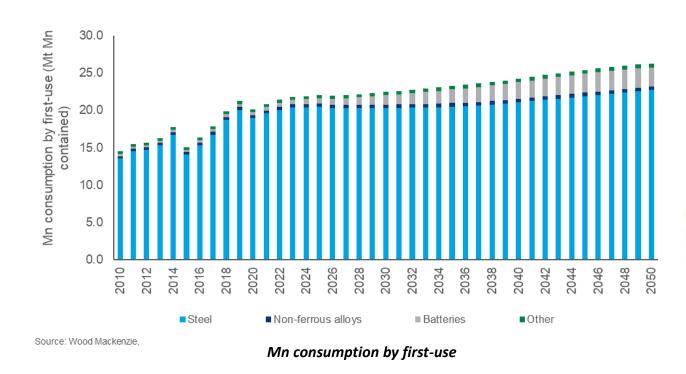
BATTERIES

✓ Importance and critical role of manganese in battery cathodes continues to grow



Manganese Sulphate





STEEL

- ✓ Strong long-term infrastructure (steel) market fundamentals
- ✓ No substitute for manganese in Steel production
- ✓ Manganese consumed in form of manganese alloys

SiMn HCFeMn

EMM MLC FeMn

The foregoing graph was obtained from Bulk Steel Alloys, a product of Wood Mackenzie, see disclaimer

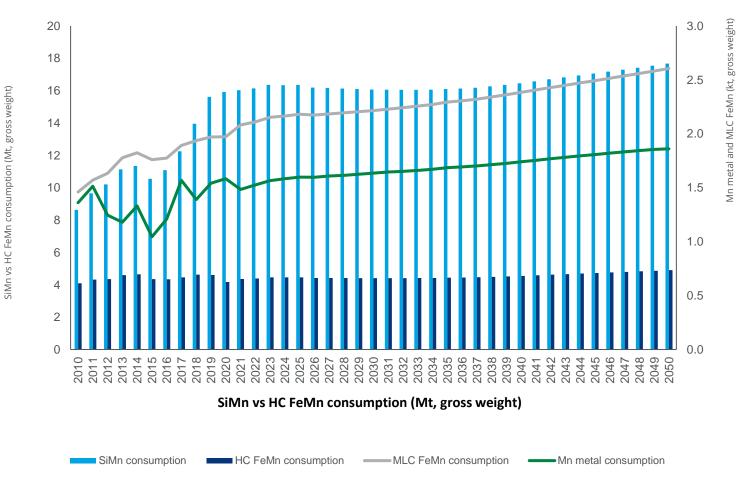
MANGANESE MARKET





- ✓ SiMn is the largest manganese alloy market
- ✓ Manganese concentrate expected to be produced from Oakover suitable for SiMn production

Manganese Alloy consumption



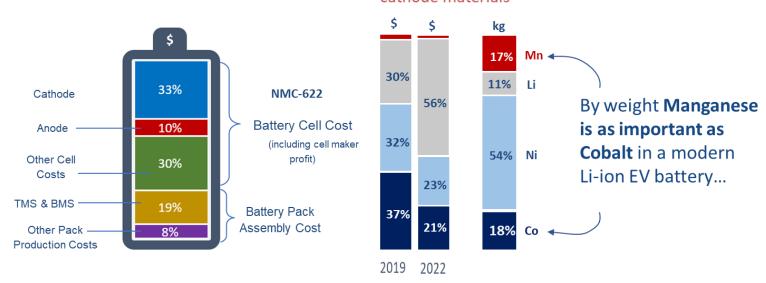






Manganese Sulphate

Manganese accounts for only 1-2% of the cost of cathode materials



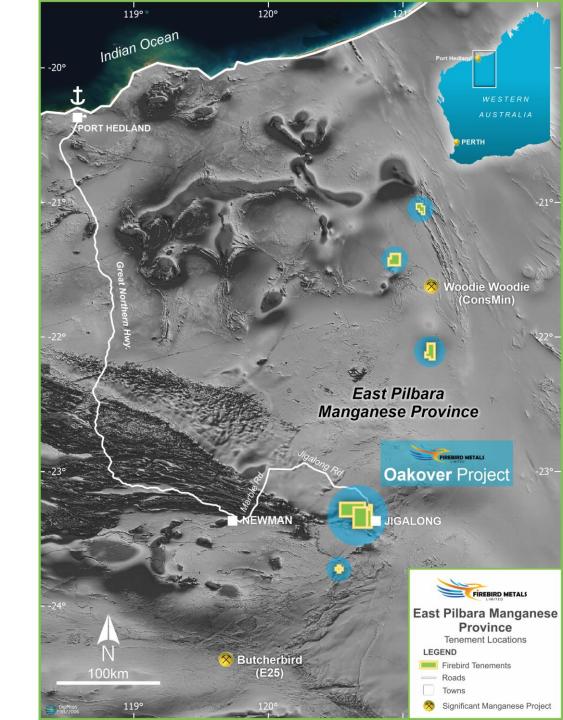
CPM estimate
approximately 90kgs of
High Purity Manganese
Sulphate is required per EV
battery

Manganese importance and content growing in both major cathode configurations

NMC and LFP (new LMFP)

FLAGSHIP OAKOVER PROJECT

- ✓ Located 85km East of Newman
- Excellent geological characteristics, highlighted by near surface / shallow mineralisation
- √ 482 holes for 22,800 m completed through historical exploration and drilling by Firebird
- ✓ Mineral Resource of 172 Mt at 9.9% Mn
 - ✓ 108 Mt increase from historical resource, delivering an uplift of 170%
 - ✓ 58.7 Mt @10.4% Mn in Indicated Resource category
 - √ 80.7 Mt Resource defined as Massive & Supergene
- √ 82-hole, 2,828m Infill drill program completed October 2022
 - ✓ Primary objective of upgrading Inferred Resources at Karen and Jay-Eye to Indicated – Updated MRE expected Q1 2023
- ✓ Significant metallurgical test work completed, with excellent results achieved
- ✓ Impressive Scoping Study completed, with significant NPV growth potential



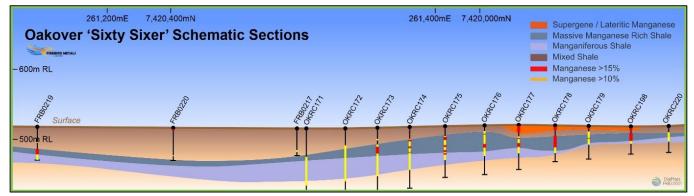


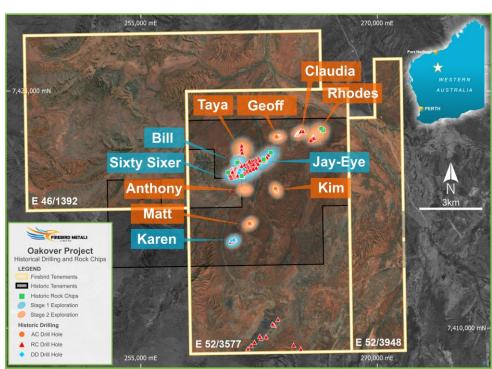
OAKOVER MINERAL RESOURCE ESTIMATE

Highlighted by near-surface, gently dipping geology and multiple processing options, providing an exciting production pathway to deliver superior value to shareholders

| Area | Mineral Resource classification | Tonnes (Mt) | Mn (%) | Fe (%) | SiO ₂ (%) | Al ₂ O ₃ (%) | P (%) | LOI (%) |
|-------------|---------------------------------------|----------------|--------|--------|----------------------|---------------------------------------|-------|------------|
| Sixty Sixer | Indicated | 58.7 | 10.4 | 9.2 | 40.2 | 10.1 | 0.10 | 13.2 |
| Sixty Sixer | Inferred | 50.7 | 9.6 | 8.5 | 38.9 | 9.9 | 0.11 | 15.0 |
| Sixty Sixer | Sub-Total | 109.4 | 10.1 | 8.9 | 39.6 | 10.0 | 0.11 | 14.1 |
| Jay Eye | Indicated | - | - | - | - | - | - | - |
| Jay Eye | Inferred | 22.0 | 9.5 | 8.5 | 40.0 | 9.8 | 0.11 | 14.2 |
| Jay Eye | Sub-Total | 22.0 | 9.5 | 8.5 | 40.0 | 9.8 | 0.11 | 14.2 |
| Karen | Indicated | - | - | - | - | - | - | - |
| Karen | Inferred | 40.9 | 9.5 | 9.3 | 42.7 | 10.5 | 0.11 | 12.0 |
| Karen | Sub-Total | 40.9 | 9.5 | 9.3 | 42.7 | 10.5 | 0.11 | 12.0 |
| Oakover | Indicated | 58.7 | 10.4 | 9.2 | 40.2 | 10.1 | 0.10 | 13.2 |
| Oakover | Inferred | 113.6 | 9.6 | 8.8 | 40.4 | 10.1 | 0.11 | 13.8 |
| Oakover | Grand Total | 172.3 | 9.9 | 8.9 | 40.4 | 10.1 | 0.11 | 13.6 |

OAKOVER RESOURCE TABLE





Large number of exploration prospects remain within tenement, providing excellent growth upside



OAKOVER – ADVANCED METALLURGICAL TEST WORK

MANGANESE CONCENTRATE TEST WORK

Gravity Separation - Work Completed

 Preliminary heavy liquid beneficiation test work on -8+1 mm material delivered excellent beneficiated grades up to 32.8% Mn

Ore Sorting - Work Completed

- Excellent results, with beneficiated product grades up to 31% Mn (11.4% Mn feed)
- Importance of multi-sensor sorting (incl XRT which approximates DMS density upgrade), not dependent on colour and total surface cleaning
- Key focus on screening and scrubbing for future studies to alleviate feed prep issues

Further Work to be Completed

- Evaluating processing options through:
 - Larger scale bulk metallurgical test work program underway
 - Further work planned for Ore Sorting, Scrubbing Optimisation, Gravity Separation incl DMS,
 - Expected completion expected by Q4 2022

HIGH PURITY MANGANESE SULPHATE TEST WORK

- Test work ongoing and delivering positive results:
 - Amenable to Reductive Leaching using SO2, with excellent initial leach results
 - Achieving outstanding Mn extraction
 - Heat generated by reaction
 - High Mn solubility
 - Typical impurities (Fe, K, Al, Ca, Mg, etc) require removal before crystallisation
 - Precipitation and crystallisation test work ongoing



OAKOVER - CONCENTRATE SCOPING STUDY RESULTS

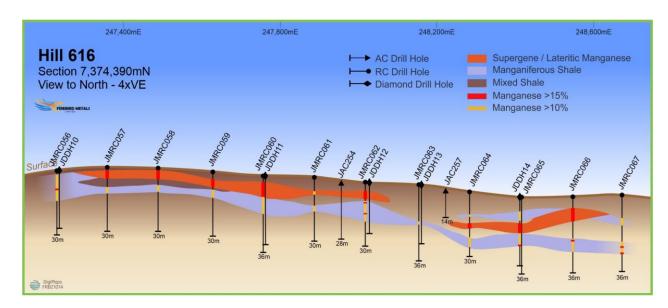
| Processing plant throughput of ~4 Mtpa, to produce ~900 ktpa of 30% Mn concentrate annually 10-year Life of Mine | | | | | | |
|--|--|--|--|--|--|--|
| | | | | | | |
| - Last ~3.5 years based on 11.9Mt Inferred Resource | | | | | | |
| Low mine strip ratio of 0.9:1 | | | | | | |
| Ore sorting and traditional gravity separation | | | | | | |
| Significantly extend Life of Mine through conversion of Inferred Resource to Indicated at Jay-Eye and Karen, which combined host 62.9 Mt of Inferred Resources | | | | | | |
| 82-hole, 2,828m Infill drilling program at Jay-Eye and Karen completed in October 2022 | | | | | | |
| High level of confidence in increasing Indicated Resources | | | | | | |
| Following strong success of 2021 infill drilling program, which converted 96% of Sixty Sixer Inferred Resource to Indicated by incorporating Hill 616 | | | | | | |
| - A\$73.4M for plant | | | | | | |
| - A\$70.4M for renewable power plant, road upgrades and other infrastructure | | | | | | |
| - NPV@8% ~A\$329m | | | | | | |
| - IRR of 47% | | | | | | |
| | | | | | | |

Refer to ASX Release 20 July 2022 "Impressive results from Manganese Concentrate Scoping Study at Oakover" for full details

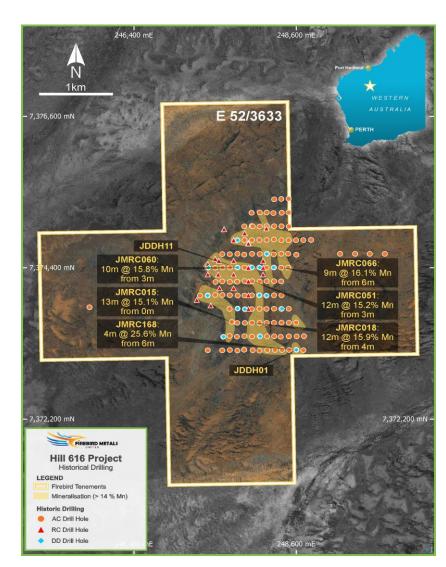


HILL 616

- √ 35km south of Oakover
- ✓ Shallow, gently dipping geology, similar to Oakover
- ✓ Historical drilling of 116 holes for 4,900m completed, over a strike of 2.2km
- ✓ 57.5 Mt @12.2% Mn Inferred Mineral Resource



| Zone | Mineral Resource Classification | Tonnes (Mt) | Mn (%) | Fe (%) | SiO ₂ (%) | Al ₂ O ₃ (%) | P (%) |
|------------------------|------------------------------------|----------------|--------|--------|----------------------|------------------------------------|-------|
| Manganiferous shale | Inferred | 49.3 | 11.4 | 17.3 | 40 | 8.5 | 0.13 |
| Supergene manganese | Inferred | 8.1 | 17.4 | 16.8 | 30.1 | 9.4 | 0.09 |
| Grand Total | Inferred | 57.5 | 12.2 | 17.2 | 38.6 | 8.6 | 0.13 |



Source: Firebird ASX announcement "Hill 616 Technical Review Complete, CSA Global engaged for Resource Work" dated 11/11/21 and "Maiden Resource at Hill 616" dated 1/12/21



- Committed to developing Oakover in line with ESG strategy and objectives
- Key focus on integration of clean energy technologies where possible through development and operational stages
- Energy management plan will ensure local community and environment are of core consideration
- Dedicated and ongoing focus to support local Jigalong community:
 - Local band, Local school, Weather station
 - Utilising community services where possible
 - Develop training and apprenticeship programs
 - Endeavour to employ local personnel wherever possible
- Regular ESG reporting
- Maiden report released in 2021, year of ASX-listing









DEVELOPING WA'S NEXT MANGANESE OPERATION

- ✓ Total Mineral Resource Estimate across Oakover and Hill 616 increased by 350% to 229Mt
 - ✓ Indicated Resource of 58.7Mt @ 10.4% Mn at Oakover
- ✓ Successfully progressing Manganese hub strategy, targeting manganese concentrate and high purity manganese sulphate
 - ✓ Excellent concentrate metallurgical test work results to date, programs ongoing.
 - ✓ Excellent Hydrometallurgical test results for manganese sulphate , programs ongoing
 - ✓ Scoping Study results confirmed strong fundamentals and significant growth upside at Oakover
- ✓ Firebird's growth strategy underpinned by strong, long-term demand forecasts from the battery minerals and steel markets
- ✓ Well-funded to execute a busy work program over the next 6-12 months
- ✓ Led by a proven Board and management team, who hold all the required skills to successfully build a quality, long-term manganese operation

| Activity – Next 6 Months | | CY2022 | | CY 2023 | |
|---|--|--------|----|---------|--|
| | | Q4 | Q1 | Q2 | |
| 89 hole, ~3,000m Infill Drilling Program at Jay-Eye And Karen | | | | | |
| Updated Oakover Mineral Resource Estimate | | | | | |
| Concentrate test work – DMS and Ore Sorting | | | | | |
| High Purity Manganese Sulphate – Hydrometallurgy test work | | | | | |
| Environmental Baseline Surveys | | | | | |
| Feasibility Study | | | | | |



THANK YOU

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