

ASX / MEDIA ANNOUNCEMENT

02/02/2022

# STRONG ASSAY RESULTS CONFIRM OAKOVER DEVELOPMENT POTENTIAL

### Highlights

- Excellent infill and extensional assay results from 233-hole, 10,145m RCP infill and extensional drilling campaign completed across the Sixty Sixer and Jay Eye deposits
- Firebird has received 80% of assay results, with remaining results, including the 41-hole (1,656m) drill program completed at the Karen deposit expected in coming weeks
- Significant high-grade intercepts include:
  - Sixty Sixer (Infill Drilling)
    - o FRB0142 5m @ 24.9% Mn from 24m
    - o FRB0130 5m @ 23.1% Mn from 6m
    - o FRB0127 3m @ 20.9% Mn from 4m
    - o FRB0121 5m @ 19.7% Mn from 1m
  - Sixty Sixer (Extensional Drilling)
    - o FRB0006 6m @ 13.6% Mn from 22m
    - FRB0007 6m @ 17.6% Mn from 19m
      - Including 2m @ 23.6% Mn from 23m
    - o FRB0040-4m @ 15.3% Mn from 10m
  - Jay Eye (Extension Drilling)
    - o FRB0020 4m @ 14.6% Mn from 7m
    - o FRB0025 5m @ 15.3% Mn from 7m
    - FRB0032 2m @ 18.8% Mn from 9m
    - o FRB0032 4m @ 12.3% Mn from 11m
- Results from Sixty Sixer and Jay Eye will be incorporated into an upgrade of the 64Mt Inferred Mineral Resource estimate at 10% Mn (8% Mn cut-off)
- Hill 616 Maiden Inferred Resource of 57.5 Mt @ 12.2% Mn (8% Mn cut-off) also included in Company's overall Resource base of 121 Mt Mn
- Rapid Development Program well advanced with the Oakover Pre-Feasibility Study expected to commence shortly

**Firebird Metals Limited (ASX: FRB, "Firebird"** or **"the Company"**) is pleased to announce outstanding results from its maiden drill program at Oakover. The Company has received approximately 80% of assay results to date, with the remaining results including drilling completed at the Karen deposit expected in the coming weeks.



Majority of the 233-hole, 10,145m RCP infill and extension program was completed across the Sixty Sixer and Jay Eye deposits, which host the existing 64Mt, 10% Mn Inferred Mineral Resource estimate at Oakover.

Sixty Sixer and Jay Eye have been drilled on an approximate variable 50m by 50m and 100m by 50m grid with drilling on 100m by 200m grid spacing also completed at Jay Eye.

The closer spaced infill drilling grid over Sixty Sixer and Jay Eye will allow an increased confidence level in the JORC Mineral Resource classification. The drilling was complemented by downhole geophysics for density and differential GPS for collar survey.

Commenting on the significant results from the maiden drill program at Oakover, Firebird Managing Director Mr Peter Allen said: "We are very pleased with the results delivered to date. We developed this program to be extensive and provide a platform to upgrade our current Resource at Oakover. The results so far provide us with confidence in delivering on this objective.

"As a manganese developer, we are fortunate to have an excellent project which provides us with nearterm production opportunities along with significant exploration upside. We have a detailed two-stage strategy in place and are well advanced on stage one work, with our Rapid Development Program generating excellent results across all various workstreams.

"We are still awaiting around 20% of assays from Sixty Sixer and Jay Eye, along with results from the 41-hole, 1,656m program completed at our Karen deposit in the coming weeks. Once the drill program has been finalised our focus will quickly turn to delivering an upgraded Mineral Resource Estimate at Oakover and commencing the critical Pre-Feasibility Study in the coming weeks."

The primary objective of the maiden drill program was to deliver an updated Mineral Resource Estimate at Oakover and following receipt of all results, Firebird will turn its attention to delivering a robust Resource upgrade, which is expected to be completed during the March quarter. The intention of the updated Mineral Resource estimate will be to delineate and domain the higher grade near surface supergene manganese mineralisation.

Finalisation of the drill program completes another key Rapid Development Program workstream, as Firebird continues to progress stage one of its two-stage development strategy. Firebird commenced the Rapid Development Program in June 2021 to evaluate the potential at Oakover for a low-capital, fast-start up through a direct shipping ore and simple beneficiation process of supergene material to generate early-stage cash flow through sales into steel industries.

Importantly, results from various Rapid Development Workstreams completed over the past six months continue to highlight the significant opportunity of Oakover to become a critical supplier of high-quality manganese ore and sulphate. The Company is making great strides towards completing the Rapid Development Program, with the Oakover Pre-Feasibility Study due to commence in the coming weeks.

A drill hole summary table included as Table 1. Full collar details for each drill hole completed on Sixty Sixer and Jay Eye are included as Table 2 and Table 3.

Drill hole location plans showing select drill holes with significant manganese intercepts are included in Figure 1.



| Deposit     | Drill Holes    | Drill method | No. Drill Holes | Metres |
|-------------|----------------|--------------|-----------------|--------|
| Sixty Sixer | FRB0001 -      | RCP          | 174             | 7,753  |
|             | FRB0016, FRB   |              |                 |        |
|             | 0035 - 0168,   |              |                 |        |
|             | FRB0211 - 233  |              |                 |        |
| Jay Eye     | FRB0017 - 0034 | RCP          | 18              | 736    |
| Karen       | FRB0169 - 210  | RCP          | 41              | 1,656  |
|             |                |              | 233             | 10,145 |

Table 1: Oakover 2021 drill hole summary table

Significant close to surface higher grade supergene shale hosted manganiferous mineralisation drill intercepts are shown in Table 4 for Sixty Sixer and Table 5 for Jay Eye.

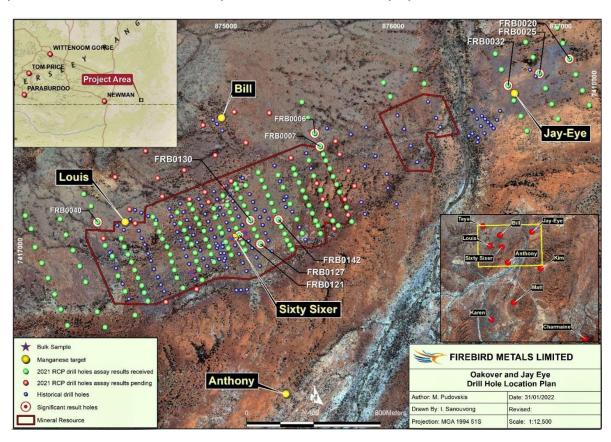


Figure 1: Sixty Sixer and Jaye Eye drill hole location plan with significant intercept drill holes

**ENDS-**



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#### About Firebird Metals Limited

Firebird Metals Limited (ASX:FRB) is a West Australian company focused on the exploration and development of its 100% owned project portfolio, comprising of four highly prospective manganese projects in the renowned East Pilbara Manganese province of Western Australia:

- Oakover Manganese Project
- Hill 616 Manganese Project
- Disraeli Manganese Project
- Raggard Hills Manganese Project

The Company's primary focus is on the development of the Oakover and Hill 616 Manganese Projects, which are located approximately 85 km east and southeast of Newman and together cover approximately 375 km2. These two projects give the company a significant total Inferred Mineral Resource Estimate of 121 million tonnes:

- Oakover Project 64 Mt @ 10% Mn
- Hill 616 Project 57.5 Mt @ 12.2% Mn

The total Inferred Mineral Resources Estimate of 121 million tonnes provides a solid technical foundation for further development as the company targets production of manganese for two key markets:

- a) manganese sulphate for use in the growing lithium ion battery market that is used in electric vehicles, where manganese is a critical battery raw material; and
- b) manganese concentrates for consumption in the global steel industries, where manganese plays an important and un-substitutable role in the strength and hardness of steel

Firebird is focused on creating and growing sustainable value for our stakeholders through the application of best practices in exploration and our commitment to protecting the health and wellbeing of our employees, the environment and the communities where we work.



#### **Competent Persons Statement**

The information in this report that relates to Exploration Results and Mineral Resources for Hill 616 is based on information compiled by Mr Mark Pudovskis. Mr Pudovskis is a full-time employee of CSA Global Pty Ltd and is a Member of the Australasian Institute of Mining and Metallurgy.

Mr Pudovskis has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as Competent Person as defined in the 2012 edition of the Australasian Code for the Reporting of Exploration Results, Mineral Resources, and Ore Reserves (JORC Code). Mr Pudovskis consents to the disclosure of the information in this report in the form and context in which it appears.

The information in this Report that relates to Mineral Resources for Oakover of the Company is based on, and fairly represents, information and supporting documentation that has been reviewed and prepared by Robert Wason, who is a Senior Consultant - Geology at Mining Insights Pty Ltd and is a member of AusIMM.

Mr. Wason has sufficient experience, which is relevant to the style of mineralisation and type of deposit under consideration and to the activity, which they are undertaking to qualify as an Expert and Competent Person as defined under the VALMIN Code and in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves' ("JORC Code 2012"). Mr. Wason consents to the inclusion in this announcement of the matters based on the information in the form and context in which they appear.

|        | Drill<br>Hole | Hole<br>depth<br>(m) | Easting | Northing | RL  | Survey<br>Type | Survey date | Survey<br>company   | Start Date | Finish Date | Assay<br>results |
|--------|---------------|----------------------|---------|----------|-----|----------------|-------------|---------------------|------------|-------------|------------------|
|        | FRB0001       | 40                   | 262063  | 7420033  | 512 | DGPS           | 28/10/2021  | McGregor<br>Surveys | 5/08/2021  | 8/08/2021   | Received         |
| 7) ( ( | FRB0002       | 40                   | 262029  | 7420116  | 512 | DGPS           | 28/10/2021  | McGregor<br>Surveys | 9/08/2021  | 9/08/2021   | Received         |
|        | FRB0003       | 40                   | 261983  | 7420207  | 513 | DGPS           | 28/10/2021  | McGregor<br>Surveys | 9/08/2021  | 9/08/2021   | Received         |
|        | FRB0004       | 40                   | 261737  | 7420733  | 516 | DGPS           | 28/10/2021  | McGregor<br>Surveys | 9/08/2021  | 10/08/2021  | Received         |
|        | FRB0005       | 42                   | 261777  | 7420640  | 515 | DGPS           | 28/10/2021  | McGregor<br>Surveys | 10/08/2021 | 10/08/2021  | Received         |
|        | FRB0006       | 54                   | 261820  | 7420551  | 515 | DGPS           | 28/10/2021  | McGregor<br>Surveys | 10/08/2021 | 11/08/2021  | Received         |
|        | FRB0007       | 48                   | 261856  | 7420474  | 513 | DGPS           | 28/10/2021  | McGregor<br>Surveys | 11/08/2021 | 11/08/2021  | Received         |
|        | FRB0008       | 40                   | 261876  | 7420427  | 513 | DGPS           | 28/10/2021  | McGregor<br>Surveys | 11/08/2021 | 12/08/2021  | Received         |
|        | FRB0009       | 40                   | 261894  | 7420390  | 513 | DGPS           | 28/10/2021  | McGregor<br>Surveys | 12/08/2021 | 12/08/2021  | Received         |



| FRB0010 | 42   | 261920 | 7420344 | 513 | DGPS | 28/10/2021               | McGregor<br>Surveys | 12/08/2021 | 12/08/2021 | Received |
|---------|------|--------|---------|-----|------|--------------------------|---------------------|------------|------------|----------|
| FRB0011 | 40   | 261941 | 7420297 | 513 | DGPS | 28/10/2021               | McGregor<br>Surveys | 12/08/2021 | 12/08/2021 | Received |
| FRB0012 | 40   | 261964 | 7420251 | 513 | DGPS | 28/10/2021               | McGregor<br>Surveys | 12/08/2021 | 13/08/2021 | Received |
| FRB0013 | 42   | 262461 | 7420874 | 509 | DGPS | 28/10/2021               | McGregor<br>Surveys | 13/08/2021 | 13/08/2021 | Received |
| FRB0014 | 40   | 262404 | 7420956 | 509 | DGPS | 28/10/2021               | McGregor<br>Surveys | 13/08/2021 | 13/08/2021 | Received |
| FRB0015 | 40   | 262262 | 7420788 | 511 | DGPS | 28/10/2021               | McGregor<br>Surveys | 13/08/2021 | 13/08/2021 | Received |
| FRB0016 | 40   | 262218 | 7420869 | 512 | DGPS | 28/10/2021               | McGregor<br>Surveys | 13/08/2021 | 13/08/2021 | Received |
| FRB0035 | 40   | 260795 | 7419421 | 521 | DGPS | 28/10/2021               | McGregor<br>Surveys | 17/08/2021 | 17/08/2021 | Received |
| FRB0036 | 40   | 260730 | 7419561 | 522 | DGPS | 28/10/2021               | McGregor<br>Surveys | 17/08/2021 | 17/08/2021 | Received |
| FRB0037 | 40   | 260684 | 7419652 | 523 | DGPS | 28/10/2021               | McGregor<br>Surveys | 19/08/2021 | 19/08/2021 | Received |
| FRB0038 | 40   | 260644 | 7419768 | 524 | DGPS | 28/10/2021               | McGregor<br>Surveys | 19/08/2021 | 19/08/2021 | Received |
| FRB0039 | 40   | 260599 | 7419829 | 525 | DGPS | 28/10/2021               | McGregor<br>Surveys | 19/08/2021 | 19/08/2021 | Received |
| FRB0040 | 54   | 260547 | 7419968 | 528 | DGPS | 28/10/2021               | McGregor<br>Surveys | 19/08/2021 | 19/08/2021 | Received |
| FRB0041 | 54   | 260506 | 7420061 | 530 | DGPS | 28/10/202 <mark>1</mark> | McGregor<br>Surveys | 19/08/2021 | 20/08/2021 | Received |
| FRB0042 | 54   | 260459 | 7420131 | 531 | DGPS | 28/10/2021               | McGregor<br>Surveys | 20/08/2021 | 20/08/2021 | Received |
| FRB0043 | 40   | 260430 | 7419258 | 523 | DGPS | 28/10/2021               | McGregor<br>Surveys | 20/08/2021 | 20/08/2021 | Received |
| FRB0044 | 40   | 260394 | 7419344 | 523 | DGPS | 28/10/2021               | McGregor<br>Surveys | 20/08/2021 | 20/08/2021 | Received |
| FRB0045 | 40   | 260350 | 7419438 | 524 | DGPS | 28/10/2021               | McGregor<br>Surveys | 21/08/2021 | 21/08/2021 | Received |
| FRB0046 | 40   | 260310 | 7419526 | 525 | DGPS | 28/10/2021               | McGregor<br>Surveys | 21/08/2021 | 21/08/2021 | Received |
| FRB0047 | 40   | 260267 | 7419620 | 527 | DGPS | 28/10/2021               | McGregor<br>Surveys | 21/08/2021 | 21/08/2021 | Received |
| FRB0048 | 42   | 260226 | 7419709 | 528 | DGPS | 28/10/2021               | McGregor<br>Surveys | 21/08/2021 | 21/08/2021 | Received |
| FRB0049 | 48   | 260183 | 7419802 | 530 | DGPS | 28/10/2021               | McGregor<br>Surveys | 21/08/2021 | 21/08/2021 | Received |
| FRB0050 | 54   | 260154 | 7419910 | 532 | DGPS | 28/10/2021               | McGregor<br>Surveys | 22/08/2021 | 22/08/2021 | Received |
| FRB0051 | 60.2 | 260116 | 7419988 | 534 | DGPS | 28/10/2021               | McGregor<br>Surveys | 22/08/2021 | 22/08/2021 | Received |



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|---------|-------|--------|---------|-----|------|--------------------------|---------------------|------------|------------|----------|
| FRB0052 | 40    | 260021 | 7419189 | 527 | DGPS | 28/10/2021               | McGregor<br>Surveys | 22/08/2021 | 22/08/2021 | Pending  |
| FRB0053 | 40    | 259983 | 7419275 | 525 | DGPS | 28/10/2021               | McGregor<br>Surveys | 22/08/2021 | 22/08/2021 | Pending  |
| FRB0054 | 40    | 259944 | 7419366 | 527 | DGPS | 28/10/2021               | McGregor<br>Surveys | 23/08/2021 | 23/08/2021 | Pending  |
| FRB0055 | 40    | 259902 | 7419458 | 528 | DGPS | 28/10/2021               | McGregor<br>Surveys | 24/08/2021 | 24/08/2021 | Pending  |
| FRB0056 | 40    | 259860 | 7419546 | 530 | DGPS | 28/10/2021               | McGregor<br>Surveys | 24/08/2021 | 24/08/2021 | Pending  |
| FRB0057 | 40    | 259822 | 7419640 | 532 | DGPS | 28/10/2021               | McGregor<br>Surveys | 24/08/2021 | 24/08/2021 | Pending  |
| FRB0058 | 40    | 259776 | 7419727 | 534 | DGPS | 28/10/2021               | McGregor<br>Surveys | 24/08/2021 | 24/08/2021 | Pending  |
| FRB0059 | 48.2  | 259738 | 7419819 | 537 | DGPS | 28/10/2021               | McGregor<br>Surveys | 24/08/2021 | 24/08/2021 | Pending  |
| FRB0060 | 42    | 259372 | 7419648 | 536 | DGPS | 28/10/2021               | McGregor<br>Surveys | 25/08/2021 | 25/08/2021 | Pending  |
| FRB0061 | 42    | 259416 | 7419559 | 534 | DGPS | 28/10/2021               | McGregor<br>Surveys | 25/08/2021 | 25/08/2021 | Pending  |
| FRB0062 | 40    | 259457 | 7419468 | 532 | DGPS | 28/10/2021               | McGregor<br>Surveys | 25/08/2021 | 25/08/2021 | Pending  |
| FRB0063 | 403.3 | 259498 | 7419378 | 530 | DGPS | 28/10/2021               | McGregor<br>Surveys | 26/08/2021 | 26/08/2021 | Received |
| FRB0064 | 40    | 259542 | 7419289 | 529 | DGPS | 28/10/2021               | McGregor<br>Surveys | 26/08/2021 | 26/08/2021 | Received |
| FRB0065 | 40    | 259582 | 7419195 | 528 | DGPS | 28/10/202 <mark>1</mark> | McGregor<br>Surveys | 26/08/2021 | 26/08/2021 | Received |
| FRB0066 | 40    | 259624 | 7419103 | 528 | DGPS | 28/10/2021               | McGregor<br>Surveys | 26/08/2021 | 26/08/2021 | Received |
| FRB0067 | 40.1  | 259660 | 7419015 | 528 | DGPS | 28/10/2021               | McGregor<br>Surveys | 26/08/2021 | 27/08/2021 | Received |
| FRB0068 | 40    | 260619 | 7419342 | 521 | DGPS | 28/10/2021               | McGregor<br>Surveys | 28/08/2021 | 28/08/2021 | Received |
| FRB0069 | 40    | 260569 | 7419432 | 522 | DGPS | 28/10/2021               | McGregor<br>Surveys | 28/08/2021 | 28/08/2021 | Received |
| FRB0070 | 40    | 260492 | 7419607 | 524 | DGPS | 28/10/2021               | McGregor<br>Surveys | 28/08/2021 | 29/08/2021 | Received |
| FRB0071 | 40    | 260453 | 7419700 | 525 | DGPS | 28/10/2021               | McGregor<br>Surveys | 29/08/2021 | 29/08/2021 | Pending  |
| FRB0072 | 40    | 260409 | 7419793 | 527 | DGPS | 28/10/2021               | McGregor<br>Surveys | 29/08/2021 | 1/09/2021  | Received |
| FRB0073 | 40.1  | 260363 | 7419884 | 529 | DGPS | 28/10/2021               | McGregor<br>Surveys | 1/09/2021  | 1/09/2021  | Received |
| FRB0074 | 40.2  | 260324 | 7419976 | 531 | DGPS | 28/10/2021               | McGregor<br>Surveys | 2/09/2021  | 2/09/2021  | Received |
| FRB0075 | 40    | 260868 | 7419509 | 521 | DGPS | 28/10/2021               | McGregor<br>Surveys | 2/09/2021  | 2/09/2021  | Received |



| FRB0076 | 40 | 260845 | 7419558 | 522 | DGPS | 28/10/2021               | McGregor<br>Surveys | 2/09/2021 | 2/09/2021 | Received |
|---------|----|--------|---------|-----|------|--------------------------|---------------------|-----------|-----------|----------|
| FRB0077 | 40 | 260827 | 7419600 | 523 | DGPS | 28/10/2021               | McGregor<br>Surveys | 2/09/2021 | 2/09/2021 | Received |
| FRB0078 | 40 | 260803 | 7419644 | 522 | DGPS | 28/10/2021               | McGregor<br>Surveys | 2/09/2021 | 3/09/2021 | Received |
| FRB0079 | 40 | 260781 | 7419691 | 522 | DGPS | 28/10/2021               | McGregor<br>Surveys | 3/09/2021 | 3/09/2021 | Received |
| FRB0080 | 40 | 260761 | 7419737 | 522 | DGPS | 28/10/2021               | McGregor<br>Surveys | 4/09/2021 | 4/09/2021 | Received |
| FRB0081 | 40 | 260738 | 7419782 | 523 | DGPS | 28/10/2021               | McGregor<br>Surveys | 4/09/2021 | 4/09/2021 | Received |
| FRB0082 | 40 | 260713 | 7419826 | 523 | DGPS | 28/10/2021               | McGregor<br>Surveys | 4/09/2021 | 4/09/2021 | Received |
| FRB0083 | 40 | 260693 | 7419877 | 524 | DGPS | 28/10/2021               | McGregor<br>Surveys | 5/09/2021 | 5/09/2021 | Received |
| FRB0084 | 40 | 260876 | 7420012 | 522 | DGPS | 28/10/2021               | McGregor<br>Surveys | 5/09/2021 | 5/09/2021 | Received |
| FRB0085 | 40 | 260895 | 7419971 | 521 | DGPS | 28/10/2021               | McGregor<br>Surveys | 5/09/2021 | 5/09/2021 | Received |
| FRB0086 | 40 | 260919 | 7419925 | 521 | DGPS | 28/10/2021               | McGregor<br>Surveys | 5/09/2021 | 5/09/2021 | Received |
| FRB0087 | 40 | 260939 | 7419883 | 520 | DGPS | 28/10/2021               | McGregor<br>Surveys | 5/09/2021 | 5/09/2021 | Received |
| FRB0088 | 48 | 260969 | 7419837 | 520 | DGPS | 28/10/2021               | McGregor<br>Surveys | 5/09/2021 | 5/09/2021 | Received |
| FRB0089 | 40 | 260990 | 7419792 | 521 | DGPS | 28/10/202 <mark>1</mark> | McGregor<br>Surveys | 6/09/2021 | 6/09/2021 | Received |
| FRB0090 | 40 | 261001 | 7419749 | 521 | DGPS | 28/10/2021               | McGregor<br>Surveys | 6/09/2021 | 6/09/2021 | Received |
| FRB0091 | 40 | 261018 | 7419701 | 522 | DGPS | 28/10/2021               | McGregor<br>Surveys | 6/09/2021 | 6/09/2021 | Received |
| FRB0092 | 40 | 261035 | 7419655 | 521 | DGPS | 28/10/2021               | McGregor<br>Surveys | 6/09/2021 | 6/09/2021 | Received |
| FRB0093 | 40 | 261074 | 7419595 | 519 | DGPS | 28/10/2021               | McGregor<br>Surveys | 6/09/2021 | 6/09/2021 | Received |
| FRB0094 | 48 | 261186 | 7419647 | 519 | DGPS | 28/10/2021               | McGregor<br>Surveys | 6/09/2021 | 6/09/2021 | Received |
| FRB0095 | 40 | 261166 | 7419709 | 520 | DGPS | 28/10/2021               | McGregor<br>Surveys | 7/09/2021 | 7/09/2021 | Received |
| FRB0096 | 40 | 261148 | 7419760 | 521 | DGPS | 28/10/2021               | McGregor<br>Surveys | 7/09/2021 | 7/09/2021 | Received |
| FRB0097 | 40 | 261137 | 7419809 | 521 | DGPS | 28/10/2021               | McGregor<br>Surveys | 7/09/2021 | 7/09/2021 | Received |
| FRB0098 | 40 | 261114 | 7419858 | 520 | DGPS | 28/10/2021               | McGregor<br>Surveys | 7/09/2021 | 7/09/2021 | Received |
| FRB0099 | 40 | 261087 | 7419891 | 519 | DGPS | 28/10/2021               | McGregor<br>Surveys | 7/09/2021 | 7/09/2021 | Received |



| FRB0100 | 40 | 261068 | 7419941 | 519 | DGPS | 28/10/2021               | McGregor<br>Surveys | 7/09/2021  | 7/09/2021  | Received |
|---------|----|--------|---------|-----|------|--------------------------|---------------------|------------|------------|----------|
| FRB0101 | 40 | 261042 | 7419981 | 519 | DGPS | 28/10/2021               | McGregor<br>Surveys | 7/09/2021  | 7/09/2021  | Received |
| FRB0102 | 40 | 261021 | 7420044 | 520 | DGPS | 28/10/2021               | McGregor<br>Surveys | 7/09/2021  | 7/09/2021  | Received |
| FRB0103 | 40 | 261092 | 7420098 | 519 | DGPS | 28/10/2021               | McGregor<br>Surveys | 8/09/2021  | 8/09/2021  | Received |
| FRB0104 | 40 | 261112 | 7420067 | 519 | DGPS | 28/10/2021               | McGregor<br>Surveys | 8/09/2021  | 8/09/2021  | Received |
| FRB0105 | 40 | 261135 | 7420014 | 518 | DGPS | 28/10/2021               | McGregor<br>Surveys | 8/09/2021  | 8/09/2021  | Received |
| FRB0106 | 40 | 261252 | 7419759 | 520 | DGPS | 28/10/2021               | McGregor<br>Surveys | 8/09/2021  | 8/09/2021  | Received |
| FRB0107 | 40 | 261233 | 7419804 | 521 | DGPS | 28/10/2021               | McGregor<br>Surveys | 8/09/2021  | 8/09/2021  | Received |
| FRB0108 | 40 | 261198 | 7419890 | 520 | DGPS | 28/10/2021               | McGregor<br>Surveys | 8/09/2021  | 8/09/2021  | Received |
| FRB0109 | 48 | 261185 | 7419940 | 519 | DGPS | 28/10/2021               | McGregor<br>Surveys | 8/09/2021  | 8/09/2021  | Received |
| FRB0110 | 48 | 261155 | 7419980 | 518 | DGPS | 28/10/2021               | McGregor<br>Surveys | 8/09/2021  | 8/09/2021  | Received |
| FRB0111 | 40 | 261220 | 7419850 | 520 | DGPS | 28/10/2021               | McGregor<br>Surveys | 9/09/2021  | 9/09/2021  | Received |
| FRB0112 | 40 | 261354 | 7419804 | 520 | DGPS | 28/10/2021               | McGregor<br>Surveys | 9/09/2021  | 9/09/2021  | Received |
| FRB0113 | 40 | 261334 | 7419843 | 520 | DGPS | 28/10/202 <mark>1</mark> | McGregor<br>Surveys | 9/09/2021  | 9/09/2021  | Received |
| FRB0114 | 40 | 261318 | 7419881 | 521 | DGPS | 28/10/2021               | McGregor<br>Surveys | 9/09/2021  | 9/09/2021  | Received |
| FRB0115 | 40 | 261292 | 7419932 | 520 | DGPS | 28/10/2021               | McGregor<br>Surveys | 9/09/2021  | 9/09/2021  | Received |
| FRB0116 | 48 | 261276 | 7419965 | 519 | DGPS | 28/10/2021               | McGregor<br>Surveys | 9/09/2021  | 9/09/2021  | Received |
| FRB0117 | 48 | 261248 | 7420024 | 518 | DGPS | 28/10/2021               | McGregor<br>Surveys | 9/09/2021  | 9/09/2021  | Received |
| FRB0118 | 48 | 261238 | 7420076 | 518 | DGPS | 28/10/2021               | McGregor<br>Surveys | 10/09/2021 | 10/09/2021 | Received |
| FRB0119 | 40 | 261435 | 7419839 | 519 | DGPS | 28/10/2021               | McGregor<br>Surveys | 10/09/2021 | 10/09/2021 | Received |
| FRB0120 | 40 | 261419 | 7419878 | 520 | DGPS | 28/10/2021               | McGregor<br>Surveys | 10/09/2021 | 10/09/2021 | Received |
| FRB0121 | 40 | 261396 | 7419924 | 520 | DGPS | 28/10/2021               | McGregor<br>Surveys | 10/09/2021 | 10/09/2021 | Received |
| FRB0122 | 40 | 261376 | 7419965 | 520 | DGPS | 28/10/2021               | McGregor<br>Surveys | 10/09/2021 | 10/09/2021 | Received |
| FRB0123 | 40 | 261351 | 7420017 | 519 | DGPS | 28/10/2021               | McGregor<br>Surveys | 10/09/2021 | 10/09/2021 | Received |



| FRB0124 | 40 | 261334 | 7420059 | 518 | DGPS | 28/10/2021               | McGregor<br>Surveys | 10/09/2021 | 10/09/2021 | Received |
|---------|----|--------|---------|-----|------|--------------------------|---------------------|------------|------------|----------|
| FRB0125 | 48 | 261317 | 7420100 | 518 | DGPS | 28/10/2021               | McGregor<br>Surveys | 10/09/2021 | 10/09/2021 | Received |
| FRB0126 | 48 | 261288 | 7420156 | 516 | DGPS | 28/10/2021               | McGregor<br>Surveys | 12/09/2021 | 12/09/2021 | Received |
| FRB0127 | 40 | 261524 | 7419879 | 518 | DGPS | 28/10/2021               | McGregor<br>Surveys | 12/09/2021 | 12/09/2021 | Received |
| FRB0128 | 40 | 261503 | 7419922 | 518 | DGPS | 28/10/2021               | McGregor<br>Surveys | 12/09/2021 | 12/09/2021 | Received |
| FRB0129 | 40 | 261483 | 7419963 | 519 | DGPS | 28/10/2021               | McGregor<br>Surveys | 12/09/2021 | 12/09/2021 | Received |
| FRB0130 | 40 | 261459 | 7420017 | 519 | DGPS | 28/10/2021               | McGregor<br>Surveys | 12/09/2021 | 12/09/2021 | Received |
| FRB0131 | 40 | 261438 | 7420056 | 519 | DGPS | 28/10/2021               | McGregor<br>Surveys | 13/09/2021 | 13/09/2021 | Received |
| FRB0132 | 40 | 261418 | 7420103 | 518 | DGPS | 28/10/2021               | McGregor<br>Surveys | 13/09/2021 | 13/09/2021 | Received |
| FRB0133 | 40 | 261395 | 7420148 | 518 | DGPS | 28/10/2021               | McGregor<br>Surveys | 13/09/2021 | 13/09/2021 | Received |
| FRB0134 | 40 | 261422 | 7420223 | 517 | DGPS | 28/10/2021               | McGregor<br>Surveys | 14/09/2021 | 14/09/2021 | Received |
| FRB0135 | 40 | 261359 | 7420228 | 516 | DGPS | 28/10/2021               | McGregor<br>Surveys | 14/09/2021 | 14/09/2021 | Received |
| FRB0136 | 40 | 261371 | 7420201 | 517 | DGPS | 28/10/2021               | McGregor<br>Surveys | 14/09/2021 | 14/09/2021 | Received |
| FRB0137 | 40 | 261716 | 7419852 | 515 | DGPS | 28/10/202 <mark>1</mark> | McGregor<br>Surveys | 14/09/2021 | 14/09/2021 | Received |
| FRB0138 | 40 | 261700 | 7419878 | 515 | DGPS | 28/10/2021               | McGregor<br>Surveys | 14/09/2021 | 14/09/2021 | Received |
| FRB0139 | 40 | 261682 | 7419907 | 515 | DGPS | 28/10/2021               | McGregor<br>Surveys | 14/09/2021 | 14/09/2021 | Received |
| FRB0140 | 40 | 261667 | 7419944 | 515 | DGPS | 28/10/2021               | McGregor<br>Surveys | 14/09/2021 | 14/09/2021 | Received |
| FRB0141 | 40 | 261645 | 7419985 | 515 | DGPS | 28/10/2021               | McGregor<br>Surveys | 15/09/2021 | 15/09/2021 | Received |
| FRB0142 | 40 | 261625 | 7420028 | 516 | DGPS | 28/10/2021               | McGregor<br>Surveys | 15/09/2021 | 15/09/2021 | Received |
| FRB0143 | 40 | 261599 | 7420078 | 517 | DGPS | 28/10/2021               | McGregor<br>Surveys | 15/09/2021 | 15/09/2021 | Received |
| FRB0144 | 40 | 261580 | 7420124 | 517 | DGPS | 28/10/2021               | McGregor<br>Surveys | 15/09/2021 | 15/09/2021 | Received |
| FRB0145 | 40 | 261558 | 7420167 | 517 | DGPS | 28/10/2021               | McGregor<br>Surveys | 15/09/2021 | 16/09/2021 | Received |
| FRB0146 | 40 | 261536 | 7420215 | 517 | DGPS | 28/10/2021               | McGregor<br>Surveys | 16/09/2021 | 16/09/2021 | Received |
| FRB0147 | 40 | 261515 | 7420257 | 516 | DGPS | 28/10/2021               | McGregor<br>Surveys | 16/09/2021 | 16/09/2021 | Received |



| FRB0148 | 40 | 261494 | 7420303 | 516 | DGPS | 28/10/2021               | McGregor<br>Surveys | 16/09/2021 | 16/09/2021 | Received |
|---------|----|--------|---------|-----|------|--------------------------|---------------------|------------|------------|----------|
| FRB0149 | 40 | 261613 | 7420292 | 515 | DGPS | 28/10/2021               | McGregor<br>Surveys | 16/09/2021 | 16/09/2021 | Received |
| FRB0150 | 40 | 261646 | 7420220 | 515 | DGPS | 28/10/2021               | McGregor<br>Surveys | 16/09/2021 | 16/09/2021 | Received |
| FRB0151 | 40 | 261691 | 7420123 | 515 | DGPS | 28/10/2021               | McGregor<br>Surveys | 17/09/2021 | 17/09/2021 | Received |
| FRB0152 | 40 | 261736 | 7420033 | 514 | DGPS | 28/10/2021               | McGregor<br>Surveys | 17/09/2021 | 17/09/2021 | Received |
| FRB0153 | 40 | 261771 | 7419951 | 514 | DGPS | 28/10/2021               | McGregor<br>Surveys | 17/09/2021 | 17/09/2021 | Received |
| FRB0154 | 40 | 261880 | 7419954 | 513 | DGPS | 28/10/2021               | McGregor<br>Surveys | 17/09/2021 | 17/09/2021 | Received |
| FRB0155 | 40 | 261848 | 7420029 | 514 | DGPS | 28/10/2021               | McGregor<br>Surveys | 17/09/2021 | 17/09/2021 | Received |
| FRB0156 | 40 | 261827 | 7420073 | 514 | DGPS | 28/10/2021               | McGregor<br>Surveys | 17/09/2021 | 17/09/2021 | Received |
| FRB0157 | 40 | 261805 | 7420119 | 514 | DGPS | 28/10/2021               | McGregor<br>Surveys | 18/09/2021 | 18/09/2021 | Received |
| FRB0158 | 40 | 261782 | 7420165 | 514 | DGPS | 28/10/2021               | McGregor<br>Surveys | 18/09/2021 | 18/09/2021 | Received |
| FRB0159 | 40 | 261763 | 7420207 | 514 | DGPS | 28/10/2021               | McGregor<br>Surveys | 18/09/2021 | 18/09/2021 | Received |
| FRB0160 | 40 | 261740 | 7420253 | 514 | DGPS | 28/10/2021               | McGregor<br>Surveys | 18/09/2021 | 18/09/2021 | Received |
| FRB0161 | 40 | 261716 | 7420300 | 514 | DGPS | 28/10/202 <mark>1</mark> | McGregor<br>Surveys | 18/09/2021 | 18/09/2021 | Received |
| FRB0162 | 40 | 261703 | 7420334 | 514 | DGPS | 28/10/2021               | McGregor<br>Surveys | 18/09/2021 | 18/09/2021 | Received |
| FRB0163 | 40 | 261863 | 7420000 | 514 | DGPS | 28/10/2021               | McGregor<br>Surveys | 18/09/2021 | 18/09/2021 | Received |
| FRB0164 | 40 | 261793 | 7420387 | 514 | DGPS | 28/10/2021               | McGregor<br>Surveys | 19/09/2021 | 19/09/2021 | Received |
| FRB0165 | 40 | 261826 | 7420296 | 514 | DGPS | 28/10/2021               | McGregor<br>Surveys | 19/09/2021 | 19/09/2021 | Received |
| FRB0166 | 40 | 261869 | 7420213 | 513 | DGPS | 28/10/2021               | McGregor<br>Surveys | 19/09/2021 | 19/09/2021 | Received |
| FRB0167 | 40 | 261907 | 7420128 | 513 | DGPS | 28/10/2021               | McGregor<br>Surveys | 19/09/2021 | 19/09/2021 | Received |
| FRB0168 | 40 | 261950 | 7420033 | 513 | DGPS | 28/10/2021               | McGregor<br>Surveys | 19/09/2021 | 20/09/2021 | Received |
| FRB0169 | 40 | 261984 | 7420006 | 512 | DGPS | 28/10/2021               | McGregor<br>Surveys | 20/09/2021 | 20/09/2021 | Received |
| FRB0211 | 48 | 262040 | 7420072 | 512 | DGPS | 28/10/2021               | McGregor<br>Surveys | 1/10/2021  | 1/10/2021  | Pending  |
| FRB0212 | 42 | 262017 | 7420164 | 512 | DGPS | 28/10/2021               | McGregor<br>Surveys | 1/10/2021  | 1/10/2021  | Pending  |



|    |         |    |        |         |     |      | 28/10/2021               | McGregor            | 1/10/2021 | 1/10/2021 | Pending |
|----|---------|----|--------|---------|-----|------|--------------------------|---------------------|-----------|-----------|---------|
|    | FRB0213 | 48 | 261686 | 7420399 | 514 | DGPS |                          | Surveys<br>McGregor |           |           | Pending |
|    | FRB0214 | 78 | 261545 | 7420661 | 517 | DGPS | 28/10/2021               | Surveys             | 2/10/2021 | 2/10/2021 |         |
|    | FRB0215 | 78 | 261336 | 7420658 | 518 | DGPS | 28/10/2021               | McGregor<br>Surveys | 2/10/2021 | 2/10/2021 | Pending |
|    | FRB0216 | 72 | 261413 | 7420477 | 516 | DGPS | 28/10/2021               | McGregor<br>Surveys | 2/10/2021 | 2/10/2021 | Pending |
|    | FRB0217 | 40 | 261334 | 7420246 | 516 | DGPS | 28/10/2021               | McGregor<br>Surveys | 2/10/2021 | 2/10/2021 | Pending |
|    | FRB0218 | 40 | 261289 | 7420210 | 517 | DGPS | 28/10/2021               | McGregor<br>Surveys | 2/10/2021 | 2/10/2021 | Pending |
|    | FRB0219 | 48 | 261153 | 7420571 | 518 | DGPS | 28/10/2021               | McGregor<br>Surveys | 3/10/2021 | 3/10/2021 | Pending |
|    | FRB0220 | 48 | 261234 | 7420395 | 517 | DGPS | 28/10/2021               | McGregor<br>Surveys | 3/10/2021 | 3/10/2021 | Pending |
|    | FRB0221 | 40 | 261181 | 7420173 | 518 | DGPS | 28/10/2021               | McGregor<br>Surveys | 3/10/2021 | 3/10/2021 | Pending |
|    | FRB0222 | 60 | 261052 | 7420298 | 519 | DGPS | 28/10/2021               | McGregor<br>Surveys | 3/10/2021 | 3/10/2021 | Pending |
| 36 | FRB0223 | 42 | 260969 | 7420478 | 521 | DGPS | 28/10/2021               | McGregor<br>Surveys | 3/10/2021 | 3/10/2021 | Pendin  |
|    | FRB0224 | 55 | 260817 | 7420403 | 525 | DGPS | 28/10/2021               | McGregor<br>Surveys | 3/10/2021 | 3/10/2021 | Pending |
|    | FRB0225 | 54 | 260895 | 7420244 | 522 | DGPS | 28/10/2021               | McGregor<br>Surveys | 4/10/2021 | 4/10/2021 | Pending |
|    | FRB0226 | 60 | 260642 | 7420240 | 531 | DGPS | 28/10/202 <mark>1</mark> | McGregor<br>Surveys | 4/10/2021 | 4/10/2021 | Pending |
|    | FRB0227 | 40 | 260736 | 7420051 | 525 | DGPS | 28/10/2021               | McGregor<br>Surveys | 4/10/2021 | 4/10/2021 | Pending |
| 75 | FRB0228 | 40 | 260773 | 7419970 | 524 | DGPS | 28/10/2021               | McGregor<br>Surveys | 4/10/2021 | 4/10/2021 | Pending |
|    | FRB0229 | 42 | 260976 | 7419507 | 520 | DGPS | 28/10/2021               | McGregor<br>Surveys | 4/10/2021 | 4/10/2021 | Pending |
|    | FRB0230 | 40 | 261156 | 7419591 | 518 | DGPS | 28/10/2021               | McGregor<br>Surveys | 4/10/2021 | 4/10/2021 | Pendin  |
|    | FRB0231 | 48 | 260928 | 7420136 | 521 | DGPS | 28/10/2021               | McGregor<br>Surveys | 5/10/2021 | 5/10/2021 | Pending |
|    | FRB0232 | 48 | 261091 | 7420127 | 519 | DGPS | 28/10/2021               | McGregor<br>Surveys | 5/10/2021 | 5/10/2021 | Pending |
|    | FRB0233 | 40 | 261205 | 7420115 | 518 | DGPS | 28/10/2021               | McGregor<br>Surveys | 5/10/2021 | 5/10/2021 | Pending |

Table 2: Oakover Sixty Sixer 2021 drill hole collars (coordinates in MGA94 51S)



|     | Drill<br>Hole | Hole<br>depth<br>(m) | Easting | Northing | RL  | Survey<br>Type | Survey date | Survey<br>company   | Start Date | Finish Date | Assay<br>results |
|-----|---------------|----------------------|---------|----------|-----|----------------|-------------|---------------------|------------|-------------|------------------|
|     | FRB0017       | 40                   | 263450  | 7420787  | 510 | DGPS           | 28/10/2021  | McGregor<br>Surveys | 13/08/2021 | 13/08/2021  | Received         |
|     | FRB0018       | 40.1                 | 263406  | 7420872  | 510 | DGPS           | 28/10/2021  | McGregor<br>Surveys | 14/08/2021 | 14/08/2021  | Received         |
|     | FRB0019       | 40                   | 263361  | 7420965  | 510 | DGPS           | 28/10/2021  | McGregor<br>Surveys | 14/08/2021 | 14/08/2021  | Received         |
|     | FRB0020       | 40                   | 263320  | 7421058  | 509 | DGPS           | 28/10/2021  | McGregor<br>Surveys | 14/08/2021 | 14/08/2021  | Received         |
|     | FRB0021       | 40                   | 263277  | 7421150  | 509 | DGPS           | 28/10/2021  | McGregor<br>Surveys | 14/08/2021 | 14/08/2021  | Received         |
|     | FRB0022       | 40                   | 263237  | 7421240  | 509 | DGPS           | 28/10/2021  | McGregor<br>Surveys | 14/08/2021 | 14/08/2021  | Received         |
| D   | FRB0023       | 48                   | 263055  | 7421146  | 509 | DGPS           | 28/10/2021  | McGregor<br>Surveys | 14/08/2021 | 14/08/2021  | Received         |
|     | FRB0024       | 40                   | 263103  | 7421058  | 510 | DGPS           | 28/10/2021  | McGregor<br>Surveys | 15/08/2021 | 15/08/2021  | Received         |
|     | FRB0025       | 40                   | 263145  | 7420964  | 510 | DGPS           | 28/10/2021  | McGregor<br>Surveys | 15/08/2021 | 15/08/2021  | Received         |
| Q G | FRB0026       | 40                   | 263186  | 7420876  | 510 | DGPS           | 28/10/2021  | McGregor<br>Surveys | 16/08/2021 | 16/08/2021  | Received         |
|     | FRB0027       | 40                   | 263226  | 7420783  | 510 | DGPS           | 28/10/2021  | McGregor<br>Surveys | 16/08/2021 | 16/08/2021  | Received         |
|     | FRB0028       | 40                   | 263266  | 7420697  | 510 | DGPS           | 28/10/2021  | McGregor<br>Surveys | 16/08/2021 | 16/08/2021  | Received         |
|     | FRB0029       | 40                   | 263084  | 7420617  | 510 | DGPS           | 28/10/2021  | McGregor<br>Surveys | 16/08/2021 | 16/08/2021  | Received         |
|     | FRB0030       | 40                   | 263045  | 7420704  | 510 | DGPS           | 28/10/2021  | McGregor<br>Surveys | 17/08/2021 | 17/08/2021  | Received         |
| 7   | FRB0031       | 40                   | 262999  | 7420795  | 510 | DGPS           | 28/10/2021  | McGregor<br>Surveys | 17/08/2021 | 17/08/2021  | Received         |
|     | FRB0032       | 40                   | 262960  | 7420884  | 510 | DGPS           | 28/10/2021  | McGregor<br>Surveys | 17/08/2021 | 17/08/2021  | Received         |
|     | FRB0033       | 40                   | 262918  | 7420977  | 509 | DGPS           | 28/10/2021  | McGregor<br>Surveys | 17/08/2021 | 17/08/2021  | Received         |
|     | FRB0034       | 48                   | 262878  | 7421069  | 509 | DGPS           | 28/10/2021  | McGregor<br>Surveys | 17/08/2021 | 17/08/2021  | Received         |

Table 3: Jay Eye 2021 drill hole collars (coordinates in MGA94 51S)



|   |            | Depth    | Depth to |       |       |                    |                                  | 1     |       |
|---|------------|----------|----------|-------|-------|--------------------|----------------------------------|-------|-------|
|   | Drill hole | from (m) | (m)      | Mn %  | Fe %  | SiO <sub>2</sub> % | Al <sub>2</sub> O <sub>3</sub> % | P %   | LOI % |
|   | FRB0006    | 22       | 28       | 13.62 | 9.36  | 40.41              | 10.91                            | 0.062 | 10.41 |
|   | FRB0006    | 30       | 33       | 13.03 | 8.18  | 45.10              | 11.48                            | 0.127 | 8.01  |
|   | FRB0007    | 19       | 25       | 17.56 | 9.68  | 36.40              | 11.03                            | 0.077 | 10.71 |
|   | FRB0008    | 16       | 18       | 13.58 | 16.66 | 19.80              | 19.07                            | 0.020 | 14.98 |
|   | FRB0010    | 20       | 28       | 11.54 | 8.57  | 46.87              | 12.49                            | 0.045 | 8.50  |
|   | FRB0035    | 11       | 20       | 12.26 | 10.66 | 38.32              | 9.28                             | 0.135 | 11.96 |
|   | FRB0036    | 8        | 20       | 12.45 | 10.53 | 39.68              | 9.51                             | 0.118 | 10.60 |
|   | FRB0040    | 10       | 14       | 15.30 | 10.81 | 39.83              | 9.91                             | 0.150 | 8.65  |
|   | FRB0075    | 14       | 17       | 15.92 | 9.19  | 39.85              | 9.62                             | 0.121 | 9.94  |
|   | FRB0077    | 0        | 2        | 16.28 | 11.75 | 38.76              | 8.94                             | 0.062 | 9.44  |
| 00  | FRB0077    | 2        | 6        | 12.91 | 9.87  | 42.00              | 9.84                             | 0.072 | 9.75  |
|   | FRB0078    | 5        | 10       | 14.20 | 11.74 | 40.06              | 9.48                             | 0.128 | 9.08  |
|   | FRB0080    | 18       | 21       | 12.49 | 11.38 | 40.52              | 9.60                             | 0.125 | 9.51  |
|   | FRB0080    | 21       | 22       | 24.71 | 11.15 | 27.96              | 6.76                             | 0.135 | 10.28 |
|   | FRB0086    | 22       | 26       | 14.40 | 11.83 | 40.01              | 9.97                             | 0.109 | 7.82  |
| •   | FRB0086    | 26       | 29       | 19.92 | 11.60 | 33.50              | 8.47                             | 0.102 | 8.80  |
|   | FRB0087    | 22       | 26       | 14.31 | 11.15 | 38.57              | 9.67                             | 0.141 | 9.63  |
| GIN   | FRB0088    | 12       | 17       | 14.70 | 9.55  | 42.87              | 10.26                            | 0.066 | 8.21  |
| $(\bigcup \bigcup $ | FRB0090    | 0        | 3        | 15.11 | 12.34 | 38.98              | 8.99                             | 0.046 | 9.94  |
| 7   | FRB0091    | 1        | 5        | 15.01 | 9.13  | 44.90              | 9.05                             | 0.066 | 8.35  |
|   | FRB0096    | 0        | 3        | 18.49 | 11.35 | 36.69              | 8.37                             | 0.048 | 9.71  |
|   | FRB0096    | 5        | 8        | 15.16 | 10.33 | 42.03              | 9.29                             | 0.091 | 8.93  |
|   | FRB0097    | 12       | 26       | 13.41 | 10.77 | 39.79              | 9.54                             | 0.130 | 10.04 |
|   | FRB0105    | 27       | 36       | 16.24 | 10.95 | 37.69              | 9.57                             | 0.121 | 9.17  |
|   | FRB0107    | 5        | 7        | 21.52 | 10.19 | 33.64              | 8.08                             | 0.096 | 10.27 |
| (C/D)   | FRB0107    | 22       | 24       | 22.47 | 8.93  | 33.25              | 8.67                             | 0.114 | 9.67  |
| 90  | FRB0109    | 10       | 13       | 15.66 | 14.92 | 34.82              | 9.35                             | 0.056 | 9.77  |
|   | FRB0111    | 17       | 24       | 14.37 | 10.25 | 39.13              | 9.22                             | 0.120 | 10.36 |
| (I)   | FRB0112    | 2        | 4        | 21.79 | 10.12 | 34.18              | 7.71                             | 0.114 | 9.82  |
| ((  ))  | FRB0112    | 7        | 12       | 16.62 | 8.01  | 42.70              | 10.37                            | 0.109 | 8.55  |
|   | FRB0114    | 4        | 6        | 21.47 | 15.61 | 18.11              | 12.40                            | 0.036 | 13.44 |
|   | FRB0115    | 9        | 15       | 15.63 | 11.97 | 38.09              | 9.87                             | 0.110 | 9.43  |
|   | FRB0115    | 26       | 30       | 15.58 | 10.36 | 39.41              | 9.91                             | 0.126 | 8.82  |
|   | FRB0116    | 8        | 12       | 18.11 | 10.95 | 35.09              | 10.45                            | 0.067 | 10.21 |
| 7   | FRB0119    | 3        | 7        | 20.07 | 9.73  | 36.09              | 8.52                             | 0.073 | 9.92  |
|   | FRB0121    | 1        | 6        | 19.74 | 19.24 | 19.61              | 9.87                             | 0.110 | 12.51 |
|   | FRB0122    | 11       | 13       | 18.31 | 11.10 | 33.77              | 10.15                            | 0.061 | 10.72 |
|   | FRB0122    | 30       | 35       | 17.33 | 10.42 | 36.45              | 9.30                             | 0.120 | 9.89  |
|   | FRB0125    | 29       | 32       | 17.75 | 12.32 | 35.30              | 8.72                             | 0.120 | 8.71  |
|   | FRB0127    | 4        | 7        | 20.93 | 11.97 | 27.49              | 11.42                            | 0.027 | 11.26 |
|   | FRB0128    | 3        | 8        | 18.34 | 16.04 | 23.97              | 11.96                            | 0.030 | 12.26 |
| -   | FRB0129    | 3        | 11       | 22.39 | 15.64 | 18.75              | 10.65                            | 0.039 | 12.90 |
| -   | FRB0130    | 6        | 11       | 23.08 | 12.67 | 23.84              | 10.03                            | 0.039 | 11.74 |
| -   | FRB0133    | 24       | 31       | 17.37 | 11.72 | 36.51              | 8.78                             | 0.028 | 8.82  |
| -   | FRB0133    | 17       | 32       | 15.94 | 11.72 | 38.72              | 8.80                             | 0.123 | 9.20  |
| -   |            | 1        |          |       |       |                    |                                  |       |       |
|   | FRB0142    | 7        | 12       | 16.85 | 14.36 | 24.67              | 12.47                            | 0.031 | 14.43 |



|               | FRB0142 | 24 | 29 | 24.89 | 9.92  | 29.63 | 7.10  | 0.114 | 10.43 |
|---------------|---------|----|----|-------|-------|-------|-------|-------|-------|
| >_            | FRB0148 | 28 | 35 | 17.10 | 11.13 | 37.00 | 9.16  | 0.116 | 8.99  |
|               | FRB0150 | 9  | 14 | 18.47 | 14.41 | 21.28 | 13.67 | 0.028 | 14.22 |
|               | FRB0157 | 21 | 27 | 16.78 | 11.83 | 37.41 | 8.98  | 0.100 | 9.48  |
|               | FRB0159 | 10 | 14 | 19.93 | 11.28 | 30.43 | 9.98  | 0.046 | 11.28 |
|               | FRB0160 | 10 | 14 | 21.69 | 10.82 | 29.02 | 9.36  | 0.030 | 11.90 |
|               | FRB0160 | 14 | 21 | 17.06 | 12.04 | 35.28 | 9.72  | 0.106 | 10.12 |
| $\mathcal{I}$ | FRB0161 | 10 | 18 | 18.79 | 15.67 | 23.16 | 12.24 | 0.065 | 11.88 |
|               | FRB0162 | 12 | 21 | 18.63 | 13.96 | 25.81 | 12.49 | 0.071 | 11.69 |

Table 4: Sixty Sixer significant drill intercepts (No Mn cut-off)

| RB0142           |        |   |  |  |   |                    |                                  |        |        |
|------------------|--------|---|--|--|---|--------------------|----------------------------------|--------|--------|
|                  | 24     | 29  | 24.89  | 9.92   |   | 29.63              | 7.10                             | 0.114  | 10.43  |
| RB0148           | 28     | 35  | 17.10  | 11.13  |   | 37.00              | 9.16                             | 0.116  | 8.99   |
| RB0150           | 9      | 14  | 18.47  | 14.41  |   | 21.28              | 13.67                            | 0.028  | 14.22  |
| RB0157           | 21     | 27  | 16.78  | 11.83  |   | 37.41              | 8.98                             | 0.100  | 9.48   |
| RB0159           | 10     | 14  | 19.93  | 11.28  |   | 30.43              | 9.98                             | 0.046  | 11.28  |
| RB0160           | 10     | 14  |  | 10.82  |   |                    |                                  |        | 11.90  |
| -                |        |   |  |  |   |                    |                                  |        | 10.12  |
| -                |        |   |  |  |   |                    |                                  |        | 11.88  |
| -                |        |   |  |  |   |                    |                                  |        | 11.69  |
|                  |        | Table 4: Si   | xty Sixeı  | significai   | nt drill in   | tercepts (No N     | /In cut-off)                     |        |        |
|                  |        | T =   |  |  |   |                    |                                  | T      |        |
| rill hole        |        | 1   | Mr   | 1 %  | Fe %  | SiO <sub>2</sub> % | Al <sub>2</sub> O <sub>2</sub> % | P %    | LOI %  |
|                  |        | · · ·   | _  |  |   |                    |                                  | +      | 7.92   |
|                  |        |   | _  |  |   |                    |                                  |        | 7.87   |
|                  |        | +   |  |  |   | +                  |                                  |        | 9.27   |
|                  |        |   |  |  |   | +                  |                                  |        | 6.83   |
|                  |        |   |  |  |   |                    |                                  |        | 7.29   |
|                  |        |   |  |  |   |                    |                                  | +      | 7.23   |
|                  |        |   |  |  |   |                    |                                  | -      | 7.98   |
|                  |        |   |  |  |   |                    |                                  |        | 8.89   |
|                  |        | +   |  |  |   |                    |                                  |        | 8.82   |
|                  |        |   | _  |  |   |                    |                                  | +      | 7.52   |
|                  |        |   |  |  |   |                    |                                  | +      | 7.52   |
|                  |        |   |  |  |   |                    |                                  | +      | 8.30   |
|                  |        |   |  |  |   |                    |                                  | +      | 8.74   |
|                  |        |   |  |  |   |                    |                                  | +      | 6.77   |
|                  |        |   |  |  |   |                    |                                  |        | 7.64   |
|                  |        |   | _  |  |   |                    |                                  |        | 13.52  |
| RB0180           | 0      | 1   |  | .30  | 14.72   | 34.95              | 9.51                             | 0.141  | 9.29   |
|                  | 25     | 29  |  | .42  | 9.09  | 32.45              | 8.22                             | 0.103  | 19.20  |
| -RRN18N          |        | _   |  | .26  | 10.56   | 34.23              | 8.66                             | 0.126  | 17.66  |
| RB0180<br>RB0181 | 14     | 29  |  |  |   |                    |                                  |        |        |
|                  | RB0159 | RB0159 10 RB0160 10 RB0160 14 RB0161 10 RB0161 10 RB0162 12  Depth from (m) RB0171 10 RB0172 3 RB0174 5 RB0174 9 RB0174 18 RB0175 0 RB0175 13 RB0176 0 RB0176 2 RB0176 6 RB0177 0 RB0177 0 RB0178 5 RB0179 6 RB0179 8 | RB0159 10 14 RB0160 10 14 RB0160 14 21 RB0161 10 18 RB0162 12 21  Table 4: Si.  Depth from (m) (m) RB0171 10 12 RB0172 3 12 RB0173 20 27 RB0174 5 13 RB0174 9 13 RB0174 18 22 RB0175 0 7 RB0175 13 21 RB0176 0 1 RB0176 0 1 RB0176 0 1 RB0176 6 9 RB0177 0 7 RB0178 5 8 RB0179 6 8 RB0179 8 11 | RB0159 10 14 19.93 RB0160 10 14 21.69 RB0160 14 21 17.06 RB0161 10 18 18.79 RB0162 12 21 18.63  Table 4: Sixty Sixer  Table 4: Sixty Sixer  Table 4: Sixty Sixer  Table 5: Sixty Sixer  Table 6: Sixty Sixer  Table 7: Sixty | RB0159 10 14 19.93 11.28 RB0160 10 14 21.69 10.82 RB0160 14 21 17.06 12.04 RB0161 10 18 18.79 15.67 RB0162 12 21 18.63 13.96  Table 4: Sixty Sixer significan  Table 5 12 12 12.05 RB0172 3 12 12.05 RB0173 20 27 10.83 RB0174 5 13 12.54 RB0174 9 13 14.83 RB0174 9 13 14.83 RB0175 0 7 13.54 RB0175 0 7 13.54 RB0175 0 7 13.54 RB0176 0 1 15.95 RB0176 0 1 15.95 RB0176 6 9 11.00 RB0177 0 7 10.33 RB0177 0 7 10.33 RB0178 5 8 11.43 RB0179 6 8 11.94 RB0179 6 8 11.94 RB0179 6 8 11.94 RB0179 7 10.84 | RB0159             | R80159                           | RB0159 | RB0159 |

Table 5: Jay Eye significant drill intercepts (No Mn cut-off)



## Appendix 1: JORC Table 1

Section 1: Sampling Techniques and Data

| Criteria               | JORC Code explanation   | Commentary   |
|------------------------|---|--|
| Sampling<br>techniques | Nature and quality of sampling (e.g. cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as downhole gamma sondes, or handheld XRF instruments, etc.). These examples should not be taken as limiting the broad meaning of sampling.        | Samples used in reporting the Exploration Results were obtained through reverse circulation percussion (RCP) drill methods. Drilling was completed by K-Drill Pty Ltd between August to October 2021 using a Schramm 685 RC drilling rig. A total of 233 RCP drillholes for 10,145 m were completed on the tenement.  The Competent Person considers that the sample |
|                        |   | techniques adopted were appropriate for the style of mineralisation and for reporting an Exploration Result.   |
| 5                      | Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.   | RCP samples were collected on 1 m intervals using a cyclone cone splitter.   |
|                        | Aspects of the determination of mineralisation that are Material to the Public Report. In cases where 'industry standard' work has been done; this would be relatively simple (e.g. "RC drilling was used to obtain   | Samples received at the Nagrom the mineral processor (Nagrom) laboratory in Kelmscott Wester Australia were weighed, crushed and pulverised to 80% passing 75 microns  |
|                        | 1 m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay"). In other cases, more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (e.g., submarine nodules) may warrant disclosure of detailed information. | Assaying was completed using the industry standard XRF analysis.   |
| Drilling<br>techniques | Drill type (e.g. core, RC, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc.) and details (e.g. 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.).  | RCP drilling (5 ½ " hammer) was used to collect samples. The drilling was vertical which is appropriate given the relatively shallow dip of the geology.  The Competent Person considers that the drilling techniques adopted were appropriate for the style of mineralisation and for reporting an Exploration Result.  |
| Drill sample recovery  | Method of recording and assessing core and chip sample recoveries and results assessed.   | Drill sample recoveries were recorded qualitatively with no material evidence of poor sample recoveries.   |
|                        | Measures taken to maximise sample recovery and ensure representative nature of the samples.   | Continual visual observations were made by the site geologists. Any sampling issues were addressed and rectified immediately.  |
|                        | 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.  | There was no reported evidence of sample bias due to loss of sample.   |
| Logging                | 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.   | All RCP drillhole logging was qualitative with lithology, texture, grain size and colour recorded. The Competent Person considers logging appropriate for the reporting of the Mineral Resource.   |
|                        | Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc.) photography.   | No RCP photos are present although the Competent Person did visit the drill site in October 2021 and observed the nature of the logging and the presence of manganese mineralisation.  |



|    | Criteria                             | JORC Code explanation   | Commentary   |
|----|--------------------------------------|---|--|
|    |                                      | The total length and percentage of the relevant intersections logged.   | All 10,145m of 1m length RCP samples used in the Exploration Results have logging records  |
|    | Subsampling techniques               | If core, whether cut or sawn and whether quarter, half or all core taken.   | There are no core samples supporting the Exploration Results   |
|    | and sample preparation               | If non-core, whether riffled, tube sampled, rotary split, etc. and whether sampled wet or dry.  | RCP samples were collected on 1 m intervals using a cyclone splitter.  |
|    |                                      | For all sample types, the nature, quality and appropriateness of the sample preparation technique.  | Samples received at the laboratory were weighed, dried at 105°c, coarse crushed to topsize of 6.3mm, riffle split and pulverised to 3 80% passing 75 The pulp was then submitted for XRF analysis (Nagrom XRF103 code) and LOI1100 (CGA003 code).  |
|    |                                      | Quality control procedures adopted for all subsampling stages to maximise representivity of samples.  | Firebird inserted appropriate blanks (approximate 1 in 30) CRM material (1 in 20), and collected duplicate samples (1 in 20).  |
|    |                                      | 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.  | Field duplicate samples Were collected from the cone splitter approximately every 20 samples. The site geologist observed appropriate sample collection practices.   |
| JD | 3                                    | Whether sample sizes are appropriate to the grain size of the material being sampled.   | Sample sizes are considered appropriate to the grain size of the material being sampled.   |
|    | Quality of assay data and laboratory | The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.  | Selected samples were sent to Nagrom in Kelmscott analysis (Fusion/XRF) of analytes Fe, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TiO <sub>2</sub> , P <sub>2</sub> O <sub>5</sub> , S, MgO, CaO, K <sub>2</sub> O, Na <sub>2</sub> O, V <sub>2</sub> O <sub>5</sub> , Co <sub>3</sub> O <sub>4</sub> , Cr, Ni, Cu, Pb, Zn, As, BaO, SrO, ZrO <sub>2</sub> . |
|    | tests                                |   | Presently, approximately 19 Karen drill holes and 34 Sixty Sixer drill holes have yet to receive assay results from Nagrom. All Jay Eye assay results have been received.  |
|    |                                      |   | The analytical techniques are industry standard for manganese.   |
|    |                                      | 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. | A downhole geophysics programme was completed by ABIM Solutions Pty Ltd who captured short and long spaced density, caliper, magnetitic susceptibility and natural gamma although the data was not used or considered relevant for the reporting of Exploration Results.   |
|    |                                      | Nature of quality control procedures adopted (e.g. standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (i.e. lack of bias) and precision have been established.                  | Firebird Metals Limited (Firebird) collected and submitted for analysis 221 GMN-04 CRMs, 220 OREAS173 CRMs, 276 blanks and 552 splitter duplicate samples for quality control checks during the analytical process.  |
|    |                                      |   | In addition, Nagrom completed internal laboratory certified reference material (CRM), blank and pulp duplicates.   |
|    |                                      |   | Results have yet to be compiled and reported to establish the presence of any issues in accuracy, although for the reporting of Exploration Results, the Competent Person does not consider this material.   |



| Criteria                                      | JORC Code explanation   | Commentary  |
|---|---|---|
| Verification of sampling and                  | The verification of significant intersections by either independent or alternative company personnel.   | The sampling and assaying have not been verified by an independent third party.   |
| assaying                                      | The use of twinned holes.   | There has been no twin drilling which is normal practice for the style of mineralisation.   |
|   | Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.  | CSA Global has randomly checked the laboratory raw data against the database assays and found no issues   |
|   | Discuss any adjustment to assay data.   | P assays has been converted by the Competent Perso from the assayed $P_2O_5$ .  |
| Location of data points                       | Accuracy and quality of surveys used to locate drillholes (collar and downhole surveys), trenches, mine workings and other locations used in Mineral Resource estimation.   | All RCP drill collars were surveyed in the field initially by a handheld global positioning system (GPS) and upon completion of the programme by McGregor Surveys using a differential GPS.             |
|   |   | The topography is flat. Downhole deviation was not completed but given the relatively flat nature of the stratigraphy and the shallow drillholes any deviation not considered material.                 |
|   |   | The Competent Person considers a high level of confidence can be placed in the location of data points.   |
|   | Specification of the grid system used.  | The project utilised the GDA94 Zone 51 coordinate system.   |
|   | Quality and adequacy of topographic control.  | Topography was not relevant for the reporting of Exploration Results.   |
| Data spacing<br>and<br>distribution           | Data spacing for reporting of Exploration Results.  | Sixty Sixer and Jay Eye have been drilled on an approximate variable 50m by 50m and 100m by 50m grid (Sixty Sixer) and 100m by 200m on Jay Eye. Kare has been drilled on an approximate 200m by 50m gri |
|   | 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. | The Competent Person considers the drill spacing appropriate for reporting an Exploration Result.   |
|   | Whether sample compositing has been applied.  | No sample compositing was applied for the Exploration Result since all the sample intervals were 1 m in length.   |
| Orientation of data in relation to geological | Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.  | The deposit is a relatively shallow and gently dipping sequence of supergene mineralised manganiferous shale. There is no evidence of major structures disrupting the continuity of the mineralisation. |
| structure                                     |   | The Competent Person considers the vertical drilling and spacing as appropriate for reporting a Mineral Resource.   |
|   | 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.                    | The relationship between the drilling orientation and the orientation of key mineralised structures is unlikely to have introduced a sampling bias.   |



| Criteria           | JORC Code explanation   | Commentary   |
|--------------------|---|--|
| Sample<br>security | The measures taken to ensure sample security.                         | The Competent Person considers the chain of custody and security measure taken from the field capture to delivery to Nagrom appropriate.                                 |
| Audits or reviews  | The results of any audits or reviews of sampling techniques and data. | No independent field audits or reviews have been undertaken.   |
|                    |   | The Competent Person completed a field audit / review in October 2021 and considered the level of exploration completed appropriate for reporting an Exploration Result. |

| Criteria   | JORC Code explanation  | Commentary   |
|--|--|--|
| Sample<br>security                               | The measures taken to ensure sample security.  | The Competent Person considers the chain of custody and security measure taken from the field capture to delivery to Nagrom appropriate.   |
| Audits or reviews                                | The results of any audits or reviews of sampling techniques and data.  | No independent field audits or reviews have been undertaken.   |
| )  |  | The Competent Person completed a field audit / review in October 2021 and considered the level of exploration completed appropriate for reporting an Exploration Result.   |
| Section 2: Re                                    | porting of Exploration Results   |  |
| Criteria   | JORC Code explanation  | Commentary   |
| Mineral<br>tenement and<br>land tenure<br>status | 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 | The Oakover Manganese Project consists of one exploration licence (E52/3577) in the East Pilbara Shire of Western Australia, located approximately 100km east of Newman and 15km north west of the Jigalong Community.   |
| _  | s <mark>ettings.</mark>  | The licence is by Firebird Metals Limited.   |
|  |  | A tenement and drillhole location plan is included as  |
|  |  | Figure 1: Sixty Sixer and Jaye Eye drill hole location plan with significant intercept drill holes  and Error! Reference source not found.   |
|  | 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.   | The licence covers 54 blocks, was applied for on 13 September 2017, granted on 11 March 2019 with an expiry date of 10 March 2024. The Competent Person can confirm that according to Department of Mines, Industry Regulation and Safety (DMIRS) Mineral Titles Online that all rents and rates have been paid and that the tenement is in good standing.  The Competent Person has not verified any potential social or environmental pediments to progressing the |
| Flauatiau  | A clus and advance and an appropriate left and a specific a land   | Project.   |
| Exploration<br>done by other<br>parties          | Acknowledgment and appraisal of exploration by other parties.  | Errawarra Pty Ltd (Errawarra), operating as Hannans Reward Limited, completed the most meaningful exploration relevant to the Sixty Sixer, Jay Eye and Karen deposits. Exploration comprised regional exploration including air core, RCP and diamond core drilling, mapping and geophysics was completed between 2008 and 2011 when the tenement was held as E52/1939 between 17 May 2007 and 16 May 2017 Work specific to the Exploration Results areas on Sixty   |
|  |  | between 2008 and 2011 when the tenement wa<br>as E52/1939 between 17 May 2007 and 16 May   |



| Criteria | JORC Code explanation   | Commentary   |
|----------|---|--|
|          |   | • Sixty Sixer 55 drill holes for 4,177m on a variable 200m by 100m to 100m by 50m spaced grid.   |
|          |   | <ul> <li>Jay Eye: 20 drill holes for 772m (clustered variable<br/>50m by 50m grid in south west)</li> </ul>  |
|          |   | <ul> <li>Karen 13 drill holes for 777m ( clustered variable 50m by 25m to 200m by 25m spaced grid)</li> <li>10 PQ3 diamond core holes (OKDM0001 to OKDM0010 completed in 2011, designed to collect</li> </ul>  |
|          |   | representative samples across the Mineral Resource for metallurgical test work.  |
| 2        |   | o Sixty Sixer: 5 drill holes for 201m  |
| 5        |   | o Jay Eye: 2 drill holes for 53.8m   |
|          |   | o Karen: 3 drill holes for 82.6m   |
|          |   | This core was not metallurgically analysed until Firebird completed preliminary test work on half core samples in 2021 (quarter core analysed by XRF).   |
|          |   | A Mineral Resource estimate completed in August 2012 by H & S Consultants Pty Ltd (H&SC) who estimated an Inferred Mineral Resource (using an 8% Mn cut-off) of 64.1 Mt grading 11.5% Mn, 10.1% Fe, 10.5% Al2O3 and 41.3% SiO2.  |
|          |   | A scoping scoping of the Oakover project was completed in 2015 by GR Engineering Services Limited, on behalf of Brumby Resources. The study was to estimate capital and operating costs associated with the design and construction of a 1 million tonnes per annum (Mtpa) hydrometallurgical manganese processing facility and related infrastructure and services. |
|          |   | Firebird (2021 to present)   |
| ))       |   | RCP drilling as described in this ASX release.   |
|          |   | Preliminary metallurgical proof-of-concept ore sorting trials and preliminary heavy liquid test work on two metallurgical composite batches (FRB 01 and FRB 02) derived from historical diamond (PQ) core  |
|          |   | Bulk-sampling of near surface, higher grade massive manganese supergene material at the Karen and Sixty Sixer deposits (approximately 30 tonnes).  |
| Geology  | Deposit type, geological setting and style of mineralisation. | The manganese mineralisation occurs as multiple seams or bands of varying thickness within a highly weathered shale (Balfour Formation). Significant zones of manganese were still being intersected at Sixty Sixer, Jay Eye and Karen.  |



| Criteria                       | JORC Code explanation  | Commentary   |
|--------------------------------|--|--|
|                                |  | The mineralisation was generally found to be shallow (mostly within 20 m of the surface), gently dipping and laterally extensive across the target area. The lateritic profile and subsequent manganese mineralisation show the zonation within the regolith and distribution of manganese mineralisation. The higher-grade (or nearer-surface supergene/lateritic) manganese material is generally located within the upper portion of the regolith profile at shallow depths (0–15 m). |
|                                |  | The Competent Person is of the opinion that the understanding of the Project's geology is detailed and well established.   |
| Drillhole<br>information       | A summary of all information material to the understanding of the Exploration Results including a tabulation of the following information for all Material drillholes:  Easting and northing of the drillhole collar  Elevation or RL (Reduced Level – Elevation above sea level in metres) of the drillhole collar  Dip and azimuth of the hole  Downhole length and interception depth  Hole length. | The collar summary of RC drillholes completed over the Sixty Sixer, Jay Eye and Karen deposits which were used for the Exploration Results is presented in Error! Reference source not found. Error! Reference source not found. and Error! Reference source not found. of this ASX release.  A drillhole location plan for Sixty Sixer / Jaye Eye and Karen is included as  |
|                                | • Hole length.   | Figure 1: Sixty Sixer and Jaye Eye drill hole location plan with significant intercept drill holes  and Error! Reference source not found. respectively.   |
|                                | If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should clearly explain why this is the case.  | No drill hole information has been excluded.   |
| Data<br>aggregation<br>methods | In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (e.g. cutting of high grades) and cut-off grades are usually Material and should be stated.   | No cut-off grades are being applied for the Exploration Results presented in Error! Reference source not found., Error! Reference source not found., Error! Reference source not found. for Sixty Sixer, Jay Eye and Karen respectively  |
|                                | 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.   | The aggregation of higher grade results and lengths was done subjectively by the Competent Person based on a minimum average grade of greater than 12% Mn  |
|                                | The assumptions used for any reporting of metal equivalent values should be clearly stated.  | No metal equivalents are being reported  |
|                                | These relationships are particularly important in the reporting of Exploration Results.  |  |
|                                | If the geometry of the mineralisation with respect to the drillhole angle is known, its nature should be reported.   | The manganiferous horizons are relatively flat lying.<br>Drilling has intersected the manganese generally at a<br>high angle.  |



| Criteria  | JORC Code explanation   | Commentary   |  |
|---|---|--|--|
| Relationship<br>between<br>mineralisation<br>widths and<br>intercept<br>lengths | If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (e.g. "downhole length, true width not known").  |  |  |
| Diagrams  | 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 drillhole collar locations and appropriate sectional views.  | A project, tenement and drillhole location plan are included as  Figure 1: Sixty Sixer and Jaye Eye drill hole location plan with significant intercept drill holes  and Error! Reference source not found   |  |
| Balanced<br>reporting   | 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.   | A full listing of over 10,000 drill assay suites is not practical.  Only select and representative drill hole intercepts above approximately 12% Mn are being reported. All other, including those above 8% Mn (Mineral Resource estimate cut-off grade) are not being reported as Exploration Results but will be used for future Mineral Resource estimates. |  |
| Other<br>substantive<br>exploration<br>data                                     | 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. | Other exploration work completed is described above in "Exploration done by other parties".  |  |
| Further work  | The nature and scale of planned further work (e.g. tests for lateral extensions or depth extensions or large-scale step-out drilling).  | The Competent Person recommends an updated Mineral Resource estimate for Sixty Sixer, Jay Eye and Karen. This work has commenced.  Other work includes ongoing metallurgical bulk sample test work and a mine pre-feasibility study.   |  |
|   | Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.   | Diagrams showing the location of the drilled holes and tenement have been included in this report.   |  |