

ASX / MEDIA ANNOUNCEMENT

11/11/2021

HILL 616 TECHNICAL REVIEW COMPLETE, CSA GLOBAL ENGAGED FOR RESOURCE WORK

Highlights

- Technical Review of Hill 616 prospect completed by CSA Global
- Review highlighted significant resource potential for manganese mineralisation based on historical drilling
- Hill 616 exhibits many of the geological characteristics of flagship Oakover Project
- CSA Global reviewed results from historical 162 hole, ~4,977m drilling program completed at Hill 616 between 2009-2011
- Large number of Significant Manganese intercepts, including:
 - 13m @ 15.1% Mn from Surface
 - 12m @ 15.9 % Mn from 4m
 - 12m @ 15.2 % Mn from 3m
 - 10m @ 15.8 % Mn from 2m
- Mineralisation was found to be shallow (mostly within 20 metres of the surface), gently dipping and laterally extensive across target area
- CSA Global contracted to complete maiden Mineral Resource Estimate (MRE), with completion expected in December
- Work at Hill 616 complimentary to Oakover Rapid Development Program, which contains Sixty Sixer and Karen prospects:
 - Recent Drilling completed at Sixty Sixer and Karen - awaiting assay results
 - CSA Global engaged to also complete updated Oakover MRE

Firebird Metals Limited (ASX: FRB, “Firebird” or “the Company”) is pleased to announce the technical review of Hill 616, which is located 85km southeast of Newman has been completed. CSA Global Pty Ltd was engaged to complete the review, which focused on assessing the historical work completed at Hill 616 to determine whether a Mineral Resource could be estimated.

Between 2009-2011, the previous owner Errawarra Pty Ltd (Errawarra) completed 162 holes for ~4,977m at Hill 616 (refer to Table 1), with majority of drilling being reverse circulation percussion (RCP) methods on an approximate 200m by 100m spaced grid. Diamond drilling for preliminary metallurgical testwork was also completed.

Drill Type	Drill Holes	Year	No. Drill Holes	Metres	Drill spacing
AC	JAC236 – JAC260	2009	25	578	Variable
Diamond Core	JDDH01 – JDDH16	2011	16	408.4	Variable
RCP	JMRC015 – JMRC169	2011	121	3,991	200m by 100m

Table 1: Errawarra Drill Summary 2009-2011

Mineralisation at Hill 616 occurs as multiple seams or bands of varying thickness and was generally found at shallow depths (mostly within 20 metres 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 manganese material is generally located within the upper portion of the regolith profile at shallow depths (0 to 15 metres).

Drill hole	Easting	Northing	Dip	Azimuth	Depth	Depth from (m)	Depth to (m)	Interval (m)	Mn %
JMRC015	247726	7373611	-90	0	30	0	13	13	15.1
JMRC018	247999	7373599	-90	0	36	4	16	12	15.9
JMRC023	247294	7373994	-90	0	54	6	10	4	18.7
JMRC025	247501	7374003	-90	0	48	7	13	6	17.8
JMRC031	248098	7374000	-90	0	36	2	11	9	14.1
JMRC051	248001	7374204	-90	0	36	3	15	12	15.2
JMRC058	247598	7374402	-90	0	30	1	5	4	18.0
JMRC060	247800	7374402	-90	0	36	2	12	10	15.8
JMRC066	248394	7374401	-90	0	36	5	14	9	16.2
JMRC070	247802	7374602	-90	0	30	1	5	4	14.9
Including	1m	@	32.22%						
JMRC083	247799	7374801	-90	0	36	2	9	7	15.2
Including	1m	@	30.13%						
JMRC087	248197	7374802	-90	0	36	10	12	2	14.3
Including	1m	@	33.23%						
JMRC087	248197	7374802	-90	0	36	14	19	5	17.4
JMRC146	247696	7373409	-90	0	30	4	10	6	15.1
JMRC150	248104	7373404	-90	0	36	9	21	12	14.7
JMRC151	248203	7373403	-90	0	36	8	13	5	14.5
JMRC165	248310	7373205	-90	0	36	4	14	10	14.9
JMRC168	248600	7373206	-90	0	24	6	10	4	25.6
Including	1m	@	31.76%						
JMRC169	248696	7373202	-90	0	18	9	11	2	15.7

Table 2: Significant Hill 616 Historical Manganese Results

Importantly, based on the findings from the review, CSA Global highlighted significant potential for a maiden MRE to be established at Hill 616, with no further drilling required. CSA Global has been engaged to complete the MRE, with completion of the work expected in December.

Hill 616 is an exciting development opportunity for Firebird and exhibits many of the geological characteristics of the Company's flagship Oakover Project, which contains an existing 64Mt Resource, with significant exploration and growth upside.



Image 1: Manganese Mineralisation at Hill 616 Source: Wamex a84892

The work undertaken at Hill 616 is complementary to the Oakover Rapid Development Program, which is focused on evaluating the Company's speed-to-market options, including Direct Shipping Ore ("DSO") and simple beneficiation processes to generate early cash-flow, to ultimately underpin a long-term strategy of manganese sulphate production for batteries or electrolytic manganese metal industries.

Firebird has recently completed drilling at Sixty Sixer and Karen and is awaiting assay results. CSA Global has also been engaged to complete an updated MRE at Sixty Sixer and Karen once drill assay results have been received and evaluated.

Commenting on the development opportunity at Hill 616 and commencement of MRE work, Firebird Managing Director Mr Peter Allen said: *"We are extremely happy with the findings from the technical review of Hill 616 by CSA Global. Fortunately, there was a significant amount of historical work completed at Hill 616, which will allow us to establish a Mineral Resource Estimate without having to complete any further drill holes or exploration work. We want to keep moving in a positive and efficient manner at Hill 616 and we have engaged CSA Global to complete the MRE, with an expectation that we can announce the findings to the market in early December."*

"The geological characteristics of Hill 616 is very similar to our flagship Oakover Project, which contains Sixty Sixer and Karen prospects. Importantly, Hill 616 provides Firebird with an additional development opportunity as we progress our Oakover Rapid Development program, to assess speed-to-market opportunities to ensure the Company is well positioned to leverage a market window to meet growing manganese demand for the battery minerals and infrastructure market."

"We have a busy end to our first year as a listed Company, as we focus on completing exploration and development work and assessing assay results from Oakover along with advancing development work at Hill 616."



Figure 1: Firebird Project Map

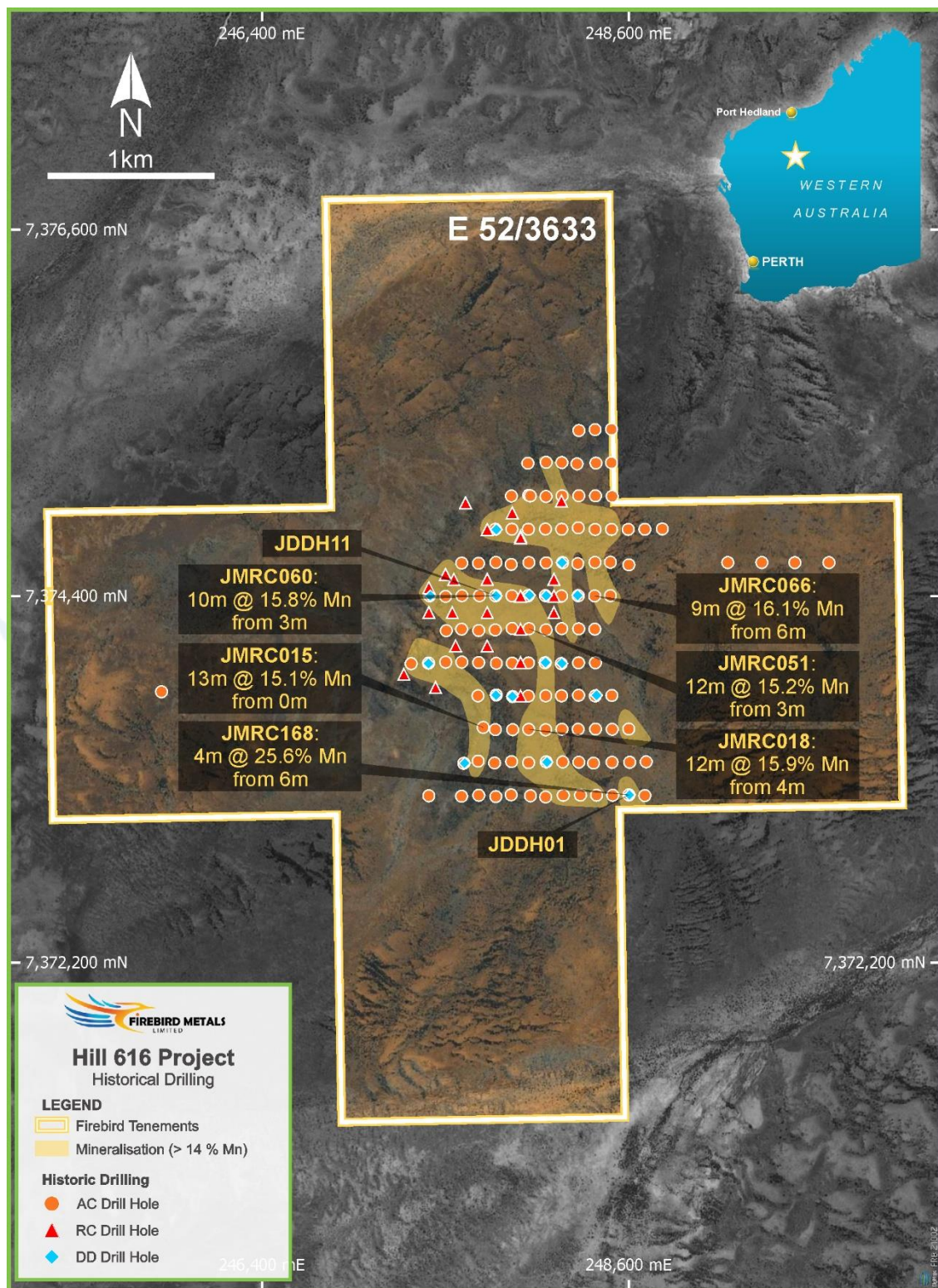


Figure 2: Hill 616 Tenement

Error! Reference source not found.3 shows reported significant manganese intercepts (determined by using a minimum cut-off of 2 metres grading at an average of 14% Mn or greater, with no more than 2 metres of consecutive internal dilution).

Drill hole	Easting	Northing	Dip	Azimuth	Depth	Depth from (m)	Depth to (m)	Interval (m)	Mn %
JMRC015	247726	7373611	-90	0	30	0	13	13	15.1
JMRC015	247726	7373611	-90	0	30	14	17	3	15.6
JMRC018	247999	7373599	-90	0	36	4	16	12	15.9
JMRC019	248101	7373597	-90	0	36	11	16	5	14.4
JMRC020	248198	7373600	-90	0	36	4	7	3	14.5
JMRC021	248295	7373600	-90	0	36	7	9	2	15.7
JMRC022	248400	7373601	-90	0	36	9	13	4	15.1
JMRC022	248400	7373601	-90	0	36	20	23	3	15.6
JMRC023	247294	7373994	-90	0	54	6	10	4	18.7
JMRC024	247398	7373997	-90	0	36	6	14	8	15.1
JMRC025	247501	7374003	-90	0	48	7	13	6	17.8
JMRC026	247597	7374003	-90	0	30	8	10	2	15.8
JMRC029	247900	7373997	-90	0	36	12	14	2	15.0
JMRC030	247997	7373999	-90	0	30	6	8	2	16.6
JMRC030	247997	7373999	-90	0	30	11	14	3	14.4
JMRC031	248098	7374000	-90	0	36	2	11	9	14.1
JMRC032	248194	7373994	-90	0	36	11	14	3	14.0
JMRC036	248599	7373602	-90	0	30	9	12	3	15.4
JMRC037	247694	7373801	-90	0	36	0	4	4	16.8
JMRC038	247804	7373806	-90	0	30	0	2	2	14.4
JMRC040	247996	7373800	-90	0	30	12	15	3	14.9
JMRC041	248101	7373801	-90	0	30	5	9	4	16.0
JMRC041	248101	7373801	-90	0	30	11	13	2	15.7
JMRC042	248196	7373801	-90	0	30	4	8	4	14.6
JMRC042	248196	7373801	-90	0	30	10	12	2	14.0
JMRC043	248298	7373804	-90	0	36	4	11	7	14.1
JMRC045	248498	7373803	-90	0	36	23	25	2	15.1
JMRC046	247504	7374192	-90	0	36	7	9	2	14.3
JMRC047	247596	7374201	-90	0	30	5	12	7	15.0
JMRC048	247699	7374193	-90	0	48	0	3	3	15.3
JMRC048	247699	7374193	-90	0	48	4	9	5	14.6
JMRC049	247798	7374196	-90	0	30	13	17	4	16.2
JMRC050	247899	7374206	-90	0	30	5	7	2	14.6
JMRC051	248001	7374204	-90	0	36	3	15	12	15.2
JMRC052	248103	7374197	-90	0	30	12	15	3	14.0
JMRC053	248196	7374204	-90	0	36	7	9	2	17.1
JMRC053	248196	7374204	-90	0	36	10	12	2	14.3
JMRC054	248299	7374203	-90	0	36	8	11	3	15.6
JMRC056	247404	7374402	-90	0	30	7	9	2	16.3
JMRC057	247500	7374398	-90	0	30	1	5	4	15.5
JMRC058	247598	7374402	-90	0	30	1	5	4	18.0
JMRC059	247704	7374402	-90	0	30	3	7	4	17.8

JMRC060	247800	7374402	-90	0	36	2	12	10	15.8
JMRC061	247898	7374401	-90	0	30	6	8	2	14.7
JMRC062	247996	7374402	-90	0	30	4	10	6	14.0
JMRC064	248196	7374400	-90	0	30	14	18	4	15.7
JMRC065	248296	7374402	-90	0	36	12	19	7	14.9
JMRC066	248394	7374401	-90	0	36	5	14	9	16.2
JMRC066	248394	7374401	-90	0	36	20	22	2	14.2
JMRC067	248489	7374402	-90	0	36	24	28	4	14.9
JMRC070	247802	7374602	-90	0	30	1	5	4	14.9
Including	1m	@	32.22%						
JMRC074	248202	7374601	-90	0	36	8	13	5	14.2
JMRC074	248202	7374601	-90	0	36	26	30	4	15.1
JMRC076	248396	7374602	-90	0	36	11	15	4	16.1
JMRC078	248600	7374588	-90	0	36	12	14	2	14.3
JMRC083	247799	7374801	-90	0	36	2	9	7	15.2
Including	1m	@	30.13%						
JMRC084	247898	7374802	-90	0	36	5	9	4	15.3
JMRC084	247898	7374802	-90	0	36	10	13	3	14.2
JMRC085	247997	7374801	-90	0	36	6	9	3	14.8
JMRC085	247997	7374801	-90	0	36	12	14	2	15.8
JMRC086	248099	7374803	-90	0	36	11	14	3	15.3
JMRC087	248197	7374802	-90	0	36	10	12	2	14.3
Including	1m	@	33.23%						
JMRC087	248197	7374802	-90	0	36	14	19	5	17.4
JMRC088	248296	7374810	-90	0	30	6	8	2	15.2
JMRC089	248398	7374800	-90	0	30	22	27	5	14.7
JMRC090	248496	7374800	-90	0	30	20	23	3	14.9
JMRC096	248008	7375002	-90	0	36	14	19	5	14.4
JMRC097	248103	7374998	-90	0	30	13	15	2	14.5
JMRC098	248199	7375002	-90	0	36	6	8	2	15.7
JMRC111	248104	7375203	-90	0	30	3	6	3	14.8
JMRC146	247696	7373409	-90	0	30	4	10	6	15.1
JMRC148	247896	7373406	-90	0	24	11	13	2	14.1
JMRC149	247999	7373399	-90	0	30	9	13	4	14.7
JMRC150	248104	7373404	-90	0	36	9	21	12	14.7
JMRC151	248203	7373403	-90	0	36	8	13	5	14.5
JMRC161	247893	7373206	-90	0	24	18	20	2	14.5
JMRC162	248009	7373200	-90	0	30	18	21	3	14.1
JMRC163	248100	7373193	-90	0	42	11	14	3	14.2
JMRC164	248206	7373203	-90	0	30	9	12	3	15.3
JMRC165	248310	7373205	-90	0	36	4	14	10	14.9
JMRC166	248406	7373203	-90	0	30	0	6	6	14.7
JMRC167	248503	7373203	-90	0	24	4	7	3	14.6
JMRC168	248600	7373206	-90	0	24	6	10	4	25.6
Including	1m	@	31.76%						
JMRC169	248696	7373202	-90	0	18	9	11	2	15.7

Table 3: Historical Hill 616 Manganese Results

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About Firebird Metals Limited

FRB is an exploration and development company that owns 100% of three highly prospective manganese projects in the renowned East Pilbara manganese province of Western Australia:

- Oakover Project - Inferred JORC 2012 Mineral Resource estimate of 64 Mt @ 10% Mn
- Hill 616 Manganese Project - >3,500 metres drilled along strike length of 2.6km
- Disraeli Manganese Project - potential Woodie Woodie style mineralisation

The Company's primary focus will be on the flagship Oakover Project which is located 85 km east of Newman and covers approximately 360 km². Oakover has an Inferred Mineral Resource estimate of 64Mt at 10% Mn (reported in accordance with the JORC Code 2012(H&SC Consultants, August 2012) at the Sixty Sixer and JayEye prospects.

The Inferred Mineral Resource estimate combined with historical exploration work provides a solid technical foundation for further development, with the company planning to complete additional infill and extensional drilling in conjunction with modern metallurgical test work utilising lower cost DMS and ore sorting techniques to deliver marketable manganese products to the global steel and battery markets.

Competent Persons Statement

The information in this Report that relates to Exploration Results and Mineral Resources 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.

For JORC Table 1 details refer to the Firebird Metals Limited Prospectus dated 16/03/2021 which contains the Independent Geologist Report and subsequent JORC Table 1 for all project including Hill 616.