ASX Announcement

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MINING LIMITED

ASX CODE: IFE

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22 May 2014

RE RELEASE OF WILCHERRY HILL MANGANESE HERCULES AND PIER DAM INDEPENDENT TECHNICAL REVIEW

IronClad Mining Limited (IFE : ASX) re releases the results of an independent assessment of the Company's exploration activity at their Wilcherry Hill project and in particular the manganese potential. The report was requested by the Company and completed by ARC Resources Pty Ltd.

Disclaimer

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The potential quantity and grade is conceptual in nature. There has been insufficient exploration to estimate a Mineral Resource at this stage. Additional drilling is currently underway as per the ASX announcement on May 15th 2014.

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Competent Persons' Statements

The information in this report that relates to exploration results, data collection and geological interpretation is based on information compiled by Mr Steve Boda BSc (Hons) who is a Member of the Australasian Institute of Geoscientists (AIG). and Mr. Chris Mrozeck who is a member of Member of The Australasian Institute of Mining and Metallurgy. Both Mr. Boda and Mr. Mrozeck have more than five years' experience in the field of activity being reported on and have sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration. and to the activity undertaken to qualify as Competent Persons as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr. Mroczek consents to the inclusion in the report of the matters based on their information in the form and context in which it appears.

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WILCHERRY HILL MANGANESE OCCURRENCE AT HERCULES AND PIER DAM INDEPENDENT TECHNICAL REVIEW

In April 2014 Ironclad Mining Ltd requested Mr Steve Boda of Arc Resources Pty Ltd to complete an independent assessment of their exploration activity at their Wilcherry Hill project and in particular the developing manganese potential. The review was to provide an opinion on the styles and controls of mineralisation at Wilcherry Hill and suggestions as to future directions and exploration targets.

Overview

- Manganese mineralisation at Hercules East and Pier Dam Prospects in the Wilcherry Hill project was sourced from dolomitic sediments and originally appears to be hypogene in origin, with a later supergene overprint.
- This hypogene event may have occured during the emplacement of the Hiltaba suite at around 1600 – 1585Ma.
- Two holes drilled in 2013, returned **7m @ 20.2%Mn (from 55 – 62m) and 22m @ 22.1% Mn (from 55 – 77m)** respectively from Hercules East which is at a very preliminary stage of exploration.
- Follow up drilling reported on 28th and 31st January 2014 highlighted significant results of;
  - 12m @ 20.72% Mn (14HCRC001, 59-71m downhole)
  - 11m @ 29.90% Mn (14HCRC006, 65-76m downhole)
  - 17m @ 22.40% Mn (14HCRC007, 49 – 66m downhole)
- The latest drilling confirmed the occurence of manganese in the Hercules East area and increased the strike extent of mineralisation to 125 metres, centred around drillhole 13HCRC026.
- Aggregate exploration target estimation for additional manganese mineralisation at Hercules and Pier Dam Prospects totals around 7.0 to 9.7 Million tonnes grading 15 – 22% Mn

  The potential quantity and grade is conceptual in nature. There has been insufficient exploration to estimate a Mineral Resource at this stage. Additional drilling is currently underway as per the ASX announcement on May 15th 2014.
- Arc Resources is of the the opinion that the structural orientation of the mineralised zones poses no issues for mining, however in order to improve the mineability and economics of the mineralised zones, several key factors need to be present including uniform mineralisation extending at depth and the presence of multiple mineralised zones.
- Preliminary metallurgical testwork reported on 30 October, 2013 demonstrated the ability to upgrade the manganese mineralisation using simple low cost gravity separation creating a pyrolusite concentrate. Additional work will be required to estimate the communition, mass balance and recovery of the potential ore and define a cost-effective processing route.

Introduction

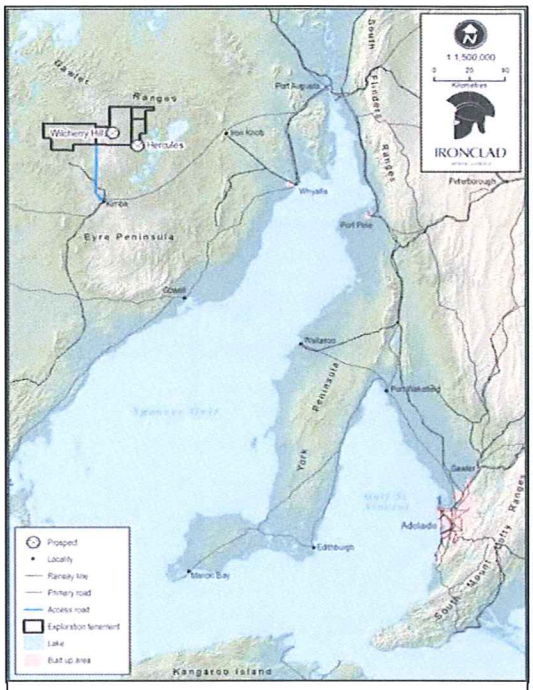

Figure 1. Project Location Map

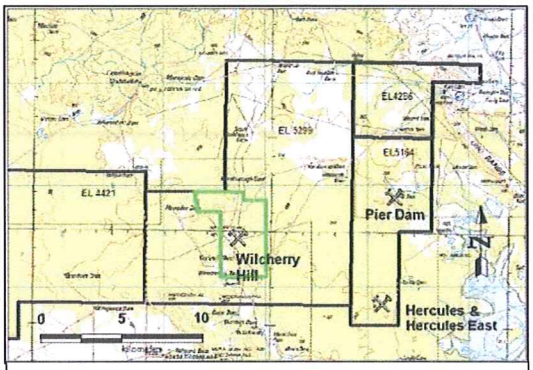

Figure 2. Tenement and Prospect Locations

Ironclad Mining Ltd (ASX: IFE, Ironclad) listed on the ASX in 2007 and acquired an 80% equity interest in the Wilcherry Hill Iron Ore project from Joint Venture partner Trafford Resources Ltd.

Ironclad continued to progress the project by improving on the then known resource, undertaking detailed geological and mining studies that include metallurgical testwork, environmental and social studies and gaining approvals for required infrastructure.

The Wilcherry Hill Iron Project comprises four exploration tenements and one mining lease covering an area of 976km^2. A Mineral Resource, previously reported in accordance with the 2004 JORC Code guidelines, totals 26.6Mt @ 40.4% Fe over four deposit areas; Weednanna, Weednanna North, Ultima Dam East and Ultima Dam West all situated within ML6390. The information was preapred under 2004 JORC Code guidelines and has not been updated to JORC 2012 JORC Code guidelines on the basis that it has not materially changed.

In addition to the iron ore, Ironclad has reported significant manganese intersections from both their 2008 and 2013 Hercules Prospect drilling campaigns in which a total of 9 holes returned greater than two (2) metre widths at greater than 15% Mn. From this drilling, an initial **JORC compliant Inferred Resource of 215.6 Mt @ 27.7% Fe** for the Hercules Prospect area **was announced on 22 December 2008**. This resource included a component of manganese mineralisation estimated to be 8.9 Mt at **10.1% Mn** and 35.1% Fe.

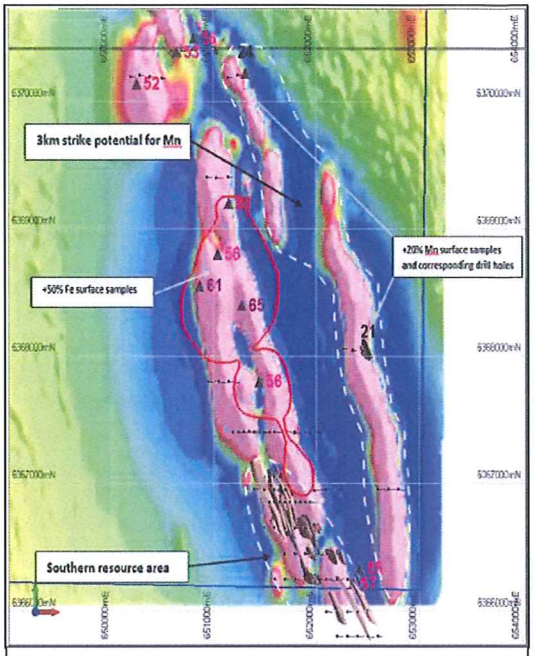

Figure 4. Location of Mn occurrence at Hercules

Follow up exploration on historical reported manganese occurences has led to significant discoveries of manganese further north of Hercules at the Pier Dam Prospect.

It is the manganese occurrence at the Hercules and the Pier Dam Prospects, that has lead Ironclad to realise the potential of manganese and the positive impact it has on the economics of the project. Ironclad intend on developing and delineating a resource to complement the current iron ore resource.

Tenements

The Wilcherry Hill project comprises four Exploration Licences EL4286, EL 4421, EL 5164, and EL 5299) and one Mining Licence (ML6390). Ironclad has 80% entitlement to the iron ore in the mining lease and from the four other tenements.

Ironclad also has a right to earn up 80% interest in manganese from the four exploration tenements currently joint ventured with partner Trafford Resources.

Geological Summary

Hercules East Manganese Occurrence

Geology in this area is interpreted to be Palaeoproterozoic Middleback Subgroup comprising units of the Lower Middleback Iron Formation (BIF), Katunga Dolomite Formation and their sediment derivatives. The Hercules East manganese occurrence extends for some three kilometres along the eastern side of a BIF ridge. Outcrops of manganese mineralisation composed of pyrolusite as identified at Hercules East represents supergene enrichment. The source of the manganese is interpreted to be the Katunga Dolomite unit.

Preliminary investigations have shown that manganese mineralisation is possibly structurally controlled and is related to steeply down-plunging lineation features in the eastern fold limb of the Hercules area.

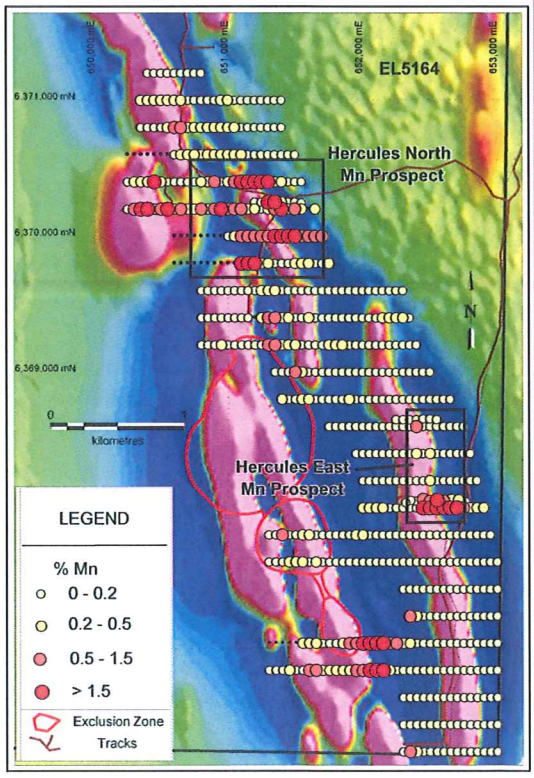

Figure 3. Massive manganese over BIF at Pier Dam

Pier Dam Manganese Occurrence

Manganese mineralisation at Pier Dam can be traced intermittently over an eight kilometre strike length that runs the width of EL5164 in a north-westerly direction.

The Pier Dam manganese is shear-hosted and controlled, with the Warrow Quartzite and possibly Katunga Dolomite Formations as the hosts. Manganese would have been sourced from the Katunga Dolomite through hydrothermal activity and deposited within the shear zones either as primary manganese or hydrothermal derivatives such as rhodochrosite ($MnCO_3$).

Summary of Work Completed

Previous exploration work in the area was undertaken by Esso Ltd, Aberfoyle Ltd, Trafford Resources Ltd. All recorded manganese mineralisation at Hercules and Pier Dam prospects but as their focus was elsewhere, little was made of it until Trafford undertook rock chip sampling over Pier Dam in 2007 and later in 2011.

The surface rock chip sampling by Trafford Resources confirmed a 4km long manganese trend which had first been observed by explorers in the early 1980's. High grade values ranging from 15.5% to 31.4% Mn were obtained in the Trafford program.

Work Completed by Ironclad

Drilling by Ironclad of 64 holes for 8,928 metres and one diamond hole for metallurgical work was completed in 2008 and a maiden JORC inferred resource of 215Mt @ 27.1% Fe, which included 8.8Mt @ 10.1% Mn was released in December 2008, for the Hercules deposit (2008 Dec ASX Release). This JORC resource has not been updated since 2008 on the basis that is has not materially changed.

In 2013 a second campaign of drilling comprising of 29 holes for 2,366 metres was completed as part of the ongoing exploration, for a total 93 RC holes for 11,294 metres. From these two campaigns, 9 holes where identified (7 holes drilled in 2008 and 2 holes drilled in 2013) that intersected manganese at widths greater than two metres and grades greater than 15% Mn.

In particular, **holes 13HCRC001 and 13HCRC026** drilled in the Hercules East area in 2013, **returned 7m @ 20.2%Mn (from 55 – 62m) and 22m @ 22.1% Mn (from 55 – 77m)** respectively.

A follow up drilling program reported to the ASX on 28 and 31 January 2014 confirmed and highlighted the occurrence of manganese in Hercules East, returning significant results details of which were included in the relevant ASX releases.

This drilling highlighted the mineralisation over a strike extent of 125 metres. Mineralisation remains open to the east and north of the recent drilling. To the south, mineralisation appears to weaken, but continues and will require additional drilling to investigate.

Soil lag sampling was completed in early 2014 and highlighted additional areas of significant anomalies. Lag had identified previously known occurrences of manganese at Hercules South and East and now identified a new area known as Hercules North. This comprised a 1000 metre long anomaly located approximately two (2) kilometres to the north of the Hercules East Prospect.

Ground magnetics have been completed over the Pier Dam Prospect to be complemented by geological mapping of the area. Manganese appears to be coincident with or proximal to magnetic sources.

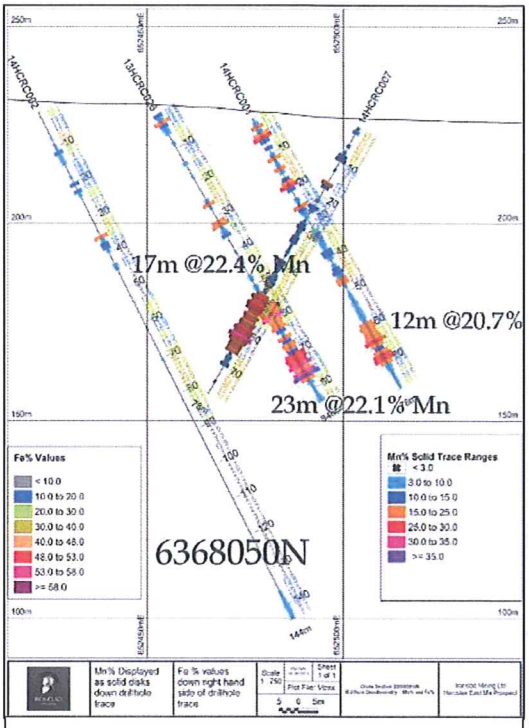

Figure 6. Sect 6368050 Drillhole Mn Geochemistry

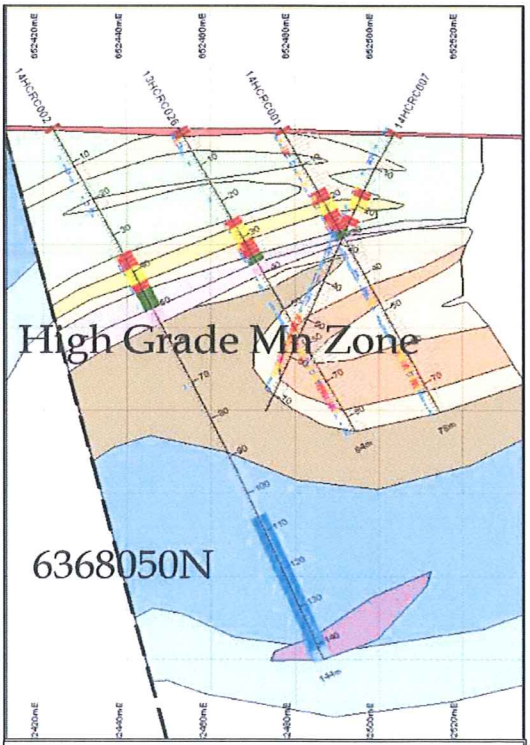

Figure 7. Sect 6368050 Interpretive geology showing high grade Mn core.

Modelling of the magnetic data is in progress and with interpretation from the mapping, will assist in generating drill targets at Pier Dam.

Additional work is currently being planned for May 2014 and beyond.

Analogous Deposit Types

Several styles of manganese mineralisation occurring in Australia with similarities to the Wilcherry Hill Project, are listed below;

Deposit Name	Company	Type	Age (Ma)	Location	Resource (Mt)	Grade	
						%Mn	%Fe
Woodie Woodie	Consolidated Minerals	Hy/Sg	1600-1000	WA	29.9	39.9	6.96
Contact & Contact North	Spitfire Resources	Hy/Sg	1640	WA	11.3	15	-
Sunday Hill	Mesa Minerals	Sm/Sb	2445	WA	4.7	18.4	-
Butcherbird	Montezuma Mining	Sm/Sg	1070-1211	WA	64.7	11.2	11.5
Bootu Creek	OM Holdings	Hy/Sg	1805-1710	NT	32.9	23.0	-

Table 1; Names and styles of other manganese deposits in Australia. Type Code: Hy = Hydrothermal, Sg = supergene, Sm = Sedimentary, Sb = stratabound,

Figure 8. Mn in drilling sample from 14HRCRC007

Figure 9. Mineralised intervals from Hole 14HCRC007

Prospectivity and Occurrence Potential

In addition to the 8.9M tonnes at 10.1% Mn resource already defined, exploration targets have been estimated based on Arc Resources' technical review, taking into account the geological setting, style of mineralisation, geological wireframes supplied by IFE and exploration results to date.

Hercules East and Pier Dam Prospects are considered capable of hosting manganese mineralised deposits in the order of:

Hercules East **4.5 to 6.5 Million tonnes grading 11.5 – 18.5% Mn**

Pier Dam **2.5 to 3.2 Million tonnes grading 18.0 – 25.0% Mn**

For an aggregate exploration target at Hercules and Pier Dam Prospects, in addition to the 8.9M tonnes at 10.1% Mn described above, totalling approximately;

7.0 to 9.7 Million tonnes grading 15 – 22% Mn

These exploration targets comprise speculative tonnes and grade estimated by assessing the potential extents of known mineralisation as observed in the field and assuming a best guess assumption of length, width and depth extent. The estimates used rock density of of 4.8 t/m3 and were determined from actual surface outcrops in the case of Pier Dam and drilling intercepts obtained from recent drilling at Hercules, extrapolated to a depth of 50 metres. Additional mineralised extensions suggested by soil anomalies were not included.

They are not an accurate assessment of the actual metal content in any of the Ironclad tenements but provide an indicative target for the purposes of justifying further

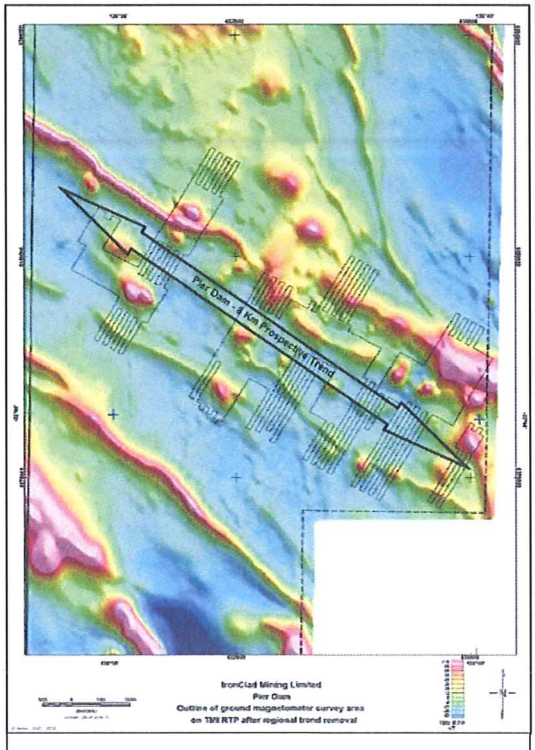

Figure 10. Ground mag and prospective trend; Pier Dam

exploration. *There is no certainty that this quantum of mineralisation will be found to exist and it is strongly recommended that additional exploration work in accordance with the Guidelines of the JORC Code (2012) be completed and any potential investor seek additional information prior to any investment.*

In addition to the hard rock potential there is significant manganese that occur as eluvium deposits that have formed from the natural degradation of the landscape and concentrating manganese in the upper profile of the regolith. This material is easily accessed and extracted at low cost and would allow Ironclad to begin production of a manganese concentrate at an early phase.

Figure 11. Massive pyrolusite supergene overprint on BIF units at Pier Dam

Indigenous Heritage

Before exploration can occur at Pier Dam, the area will require an indigenous heritage survey by the Gawler Ranges People who hold Native Title over the area. IronClad has a Native Title Exploration Agreement (NTEA) with the Gawler Ranges People and a strong working relationship built over many years exploring in the region. Surveys are planned for late May 2014 to allow drilling programs to proceed, while protecting the indigenous heritage of the area.

Figure 12. Massive Mn overprinting BIF at Pier Dam

Exploration Suggestions

As part of the on-going exploration to enhance and develop the manganese, exploration should include, but not limited to:

Hercules:

- Structural and lithological mapping to understand the relationships between the manganese occurrences and the timing of deformations.
- Additional drilling along strike at Hercules East to define the lateral extents of mineralisation and also down-dip to define the plunging extent of mineralisation.
- Follow-up drilling of anomalous lag samples in Hercules North.

Pier Dam:

- Additional mapping of lithology and structure, highlighting areas where concentrations of manganese are occurring. Identify the presence of the source rock for manganese.
- Generating drill targets from geological and geophysical interpretations.
- Assessing the potential of creating an extractable resource from the eluvial manganese material.

Figure 13. Supergene manganese matrix infill of quartz breccia at Pier Dam

Conclusion

Ironclad's most recent drilling campaign intersected significant manganese mineralisation in Hercules East. This adds strength to the potential for discovering possibly economic manganese deposits at Hercules, while work at Pier Dam, which previously included rock chips from Trafford and Ironclad, returned encouraging results. From field observations it can be seen that manganese mineralisation at Pier Dam also has substantial strike extents along with reasonable widths.

Additional work in these areas will enable Ironclad to generate drilling targets and potentially add significant manganese to an expanding resource.

Ironclad has realised the prospective nature of the manganese and are currently planning the next phase of exploration.

Figure 14. Eluvial deposit of manganese at Pier

The potential to discover and develop additional manganese occurrences on the Ironclad tenements is highly feasible. The manganese may complement existing iron resources in planning future mine development and upgrade of port infrastructure.

This would allow Ironclad to become a multi-commodity producer and significantly improve the potential economic viability of the project.

References

"20140326 Board Meeting Geology Contribution" Ironclad Inhouse Powerpoint Presentation.

"Hercules East Mn_Drilling Report 2014_v1.2", Ironclad Inhouse Report

Various announcements to the ASX by Ironclad Mining Ltd (01/05/14, 30/01/14, 28/01/14, 9/12/13, 30/10/13, 24/10/13, 31/3/13, 22/12/08

Glossary

Mn = manganese, BIF = Banded Iron Formation, eluvial = eluvium or eluvial deposits are those geological deposits and soils that are derived by in situ weathering or weathering plus gravitational movement or accumulation,

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