

Wilcherry Hill Iron Ore Project Update

Annual General Meeting
22 November 2012

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- This presentation has originated from IronClad Mining Limited.
- The information that relates to exploration targets, exploration results and drilling data is based on information compiled by Chris Mroczek, who is a member of the Australian Institute of Mining and Metallurgy and who has more than five years experience in the field of activity being reported on.
- Mr Mroczek has sufficient experience which is relevant to the style of mineralisation and type of deposits under consideration and to the activity which he is undertaking to qualify as a competent person as defined in the 2004 Edition of the 'Australasian Code for Reporting of Exploration Results, Minerals Resources and Ore Reserves.
- Mr Mroczek consents to the inclusion in the presentation of the matters based on his information in the form and content in which it appears.



Recent Milestones

Recent Milestones - Approvals



- Approvals granted:
 - Landholder Compensation Agreement September 2011
 - Commonwealth EPBC Act Public Environmental Report September 2011
 - Mining Lease Proposal (MLP) October 2011
 - Program for Environment Protection & Rehabilitation -PEPR (MARP) December 2012
 - Development Approval amendment for Lucky Bay being submitted in stages

Recent Milestones – Contracts



Mining contract – negotiations complete September 2012

Haulage contract – negotiations complete September 2012

Process plant – initial design complete October 2012

Crushing contract – negotiations in progress



Current Status

Current Status



- Action being taken to maintain cash margin and NPV at lower iron ore price
 - Exploration focused on delineating additional low strip ratio reserves for DSO, DMS and GS feed
 - Road and port redesigned to reduce start up capital cost

Mineral Reserves



Weednanna, Ultima Dam East, Weednanna North

- Program Underway to estimate DSO Mineral Reserve – Completion Mid December
- Infill Drilling program August September completed
- Final Program Objectives
 - DSO delineation from existing Mineral Resources
- WDA, UDE, WDN
 - Update Mineral Resource & Estimate Reserve
- Resource modelling nearing completion
- Whittle optimisations commenced

Exploration Rationale



- Strategy in a softening iron ore price environment
 - Better grade definition of existing Mineral Resource at Wilcherry Hill – improved selectivity (DSO) for mining
- Find more "low cost ore" extend project mine life
 - Key Criteria low strip ratio & grade suitable for DSO/DMS/GS processing options

Exploration Project Pipeline Summary



Target Mineralisation

Magnetite Skarn (DSO (DMS/GS))

Banded Iron Formation (GS)

Near Surface Fe Oxide (DSO)

Surface Lag (DSO)

WDA

Deposits – JORC Resource

UDE, WDN, UDW

Hercules, Black Hills West, Zealous

Drill Ready Target

Reddon Dam, Death Adder North, Weednanna NE

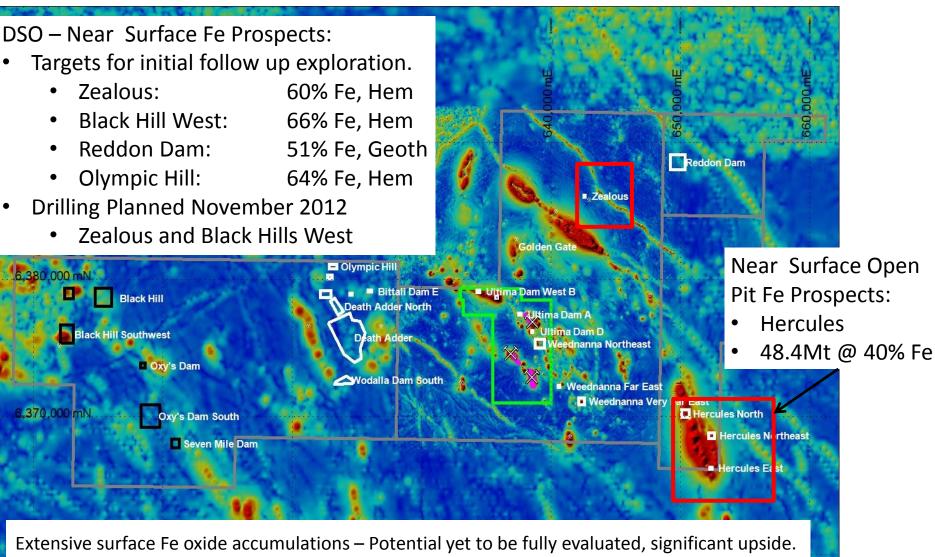
Exploring

Olympic Hill, Bittali Dam, Black Hill, Oxy Dam Evaluating Potential

Exploration Prospect Locations

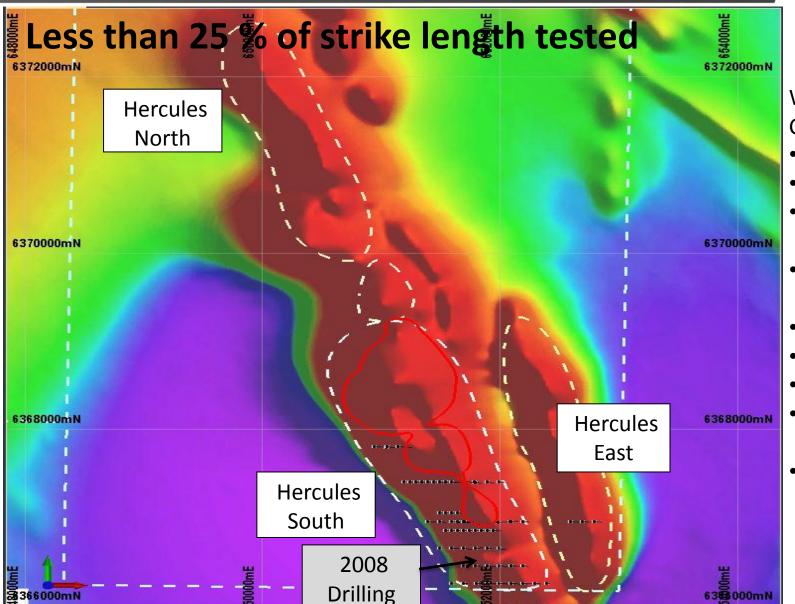
Ignored by past explorers looking for base metals and copper/gold





Hercules





Work Completed.

- 2008
- Geophysics
- Drilling2008
- Resource
 Estimate
- 2012
- Infill Gravity
- Modelling
- Target Generation
- Planning to
 Drill Nov
 2012

Hercules



Inferred Mineral Resources 15th Dec 2008

Domain 1 Domain 2 Domain 3

Domain 4

145,577

22.88

23.58

50.88

2.28

3.72

0.08

0.60

Total

193,936

27.11

28.48

44.70

2.62

2.84

0.09

0.49

	Domain 1	Domain 2	Domain 3	
Kt	3,579	36,028	8,752	
Fe%	41.86	40.75	35.19	
Calcined Fe%	45.37	44.14	38.58	
SiO ₂ %	21.51	27.79	20.99	
Al ₂ O ₃ %	8.32	3.16	3.80	
MgO%	0.22	0.17	0.20	
TiO ₂ %	0.32	0.08	0.10	
K ₂ O%	0.16	0.11	0.45	
CaO%	0.57	0.11	0.14	
P%	0.09	0.20	0.20	
Mn%	0.61	0.86	10.01	
S %	0.08	0.03	0.03	
Na ₂ O%	0.19	0.30		
LOI%	7.73	7.62	8.85	
LOI371%	4.70	5.85	5.44 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
LOI538%	6.86	6.92	6.85	

	0.00		U	1.49							
Hole	e Detail	s	Oxidised BIF Significant Assay Results								
Hole ID	From	Interval	Fe%	Calcined Fe %	SiO2%	Al ₂ O ₃	Р%	Mn%	S%	LOI	Comment
08HCRC006	14	4	52.0	58.2	8.8	5.0	0.109	0.41	0.097	10.7	
08HCRC007	4	6	51.3	56.2	13.3	3.9	0.149	0.20	0.067	8.8	
08HCRC011	62	20	52.2	57.3	9.7	3.7	0.283	0.71	0.032	8.9	
08HCRC011	72	8	56.0	60.7	8.0	1.8	0.284	0.29	0.031	7.8	
08HCRC012	48	4	54.8	57.4	14.5	0.9	0.085	0.80	0.021	4.6	
08HCRC012	74	8	52.7	58.5	9.4	3.2	0.350	0.24	0.035	9.9	
08HCRC031	30	6	55.9	59.6	8.5	2.8	0.238	1.01	0.020	6.2	
08HCRC032	54	8	54.3	58.6	11.8	2.1	0.228	0.26	0.017	7.5	
08HCRC034	30	16	53.9	60.0	8.3	3.3	0.234	0.30	0.095	10.2	
08HCRC048	20	10	54.4	61.1	6.3	3.2	0.146	0.41	0.047	10.9	
and	32	8	32.1	35.8	8.6	2.1	0.102	21.6	0.028	10.4	
08HCRC062	28	4	24.3	27.2	7.2	2.0	0.138	29.5	0.005	10.7	
08HCRC063	12	12	50.0	54.5	10.9	5.1	0.209	1.84	0.041	8.3	
08HCRC064	48	20	46.5	50.9	11.9	3.5	0.288	5.4	0.034	8.7	
08HCRC067	38	4	51.8	57.9	10.5	2.8	0.124	0.84	0.050	10.7	

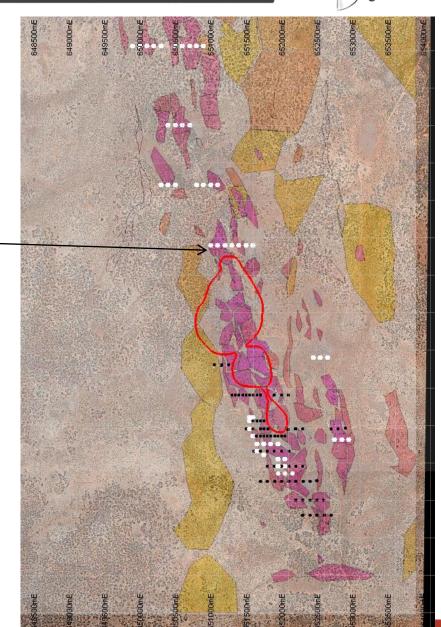
Hercules



Exploration – Next Stage

- Drilling
 - Reverse Circulation ≈2,500m

 Results and Re-assessment of prospectivity – December



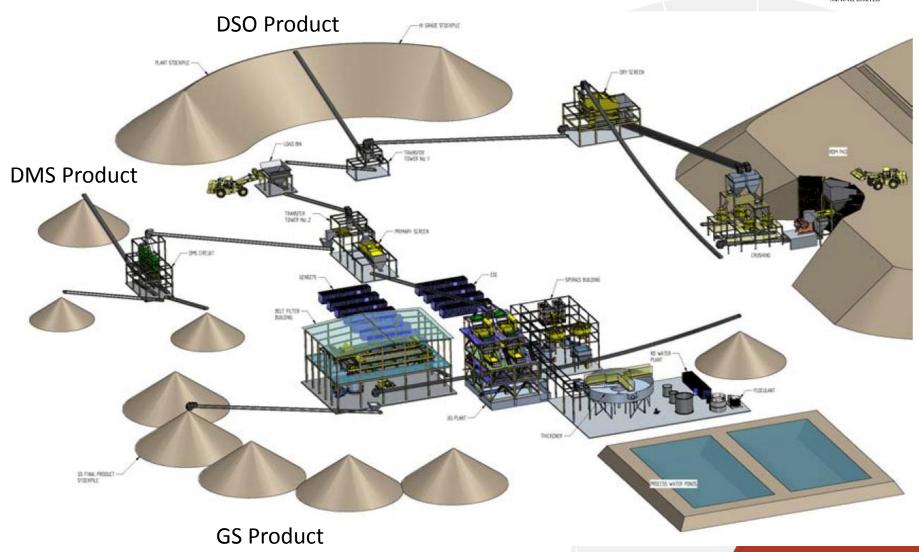
Process Plant Design



- GS Plant preliminary design completed
- Current design is two GS trains each of 1.1Mta ore feed
- Plant capital costs can be reduced by installing one train initially and deleting fixed crushing plant
- Modular construction of plant to reduce onsite labour and costs and allow it to be relocated when required

Process Plant





GS Plant – Modular Design





Road Haulage



- Trucking in bulk from mine to port (Subject to amendment approval)
- Initial trucking double road trains (54t payload)
- Final negotiations in progress with local Councils for route approval and road maintenance agreements
- Port layout revised to improve efficiency and reduce costs
- Buffer stockpile of bulk ore at Lucky Bay (Subject to amendment approval)
- Trans-shipping to export vessels in containers

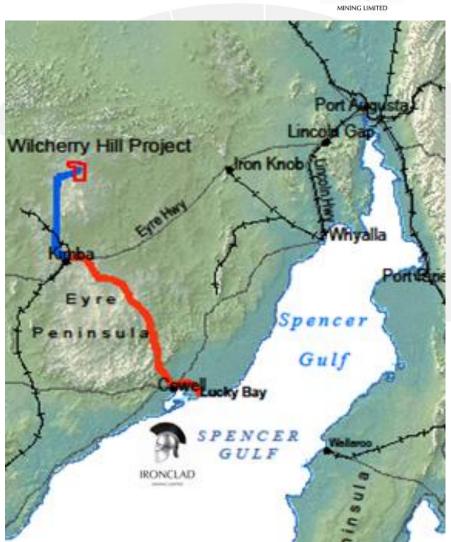
Transport Approvals



- Mine Site to Lucky Bay Route Details Confirmed
- Double Road Train Route Assessment Completed
- Road Condition Report Completed
- Road Infrastructure Upgrade and Maintenance Requirements Final Negotiations with Councils
- Re-Gazetting/permitting of Council Roads for Use of Double Road Trains

In progress

 SA Government Department of Transport Special Permit to Operate Double Road Trains In progress



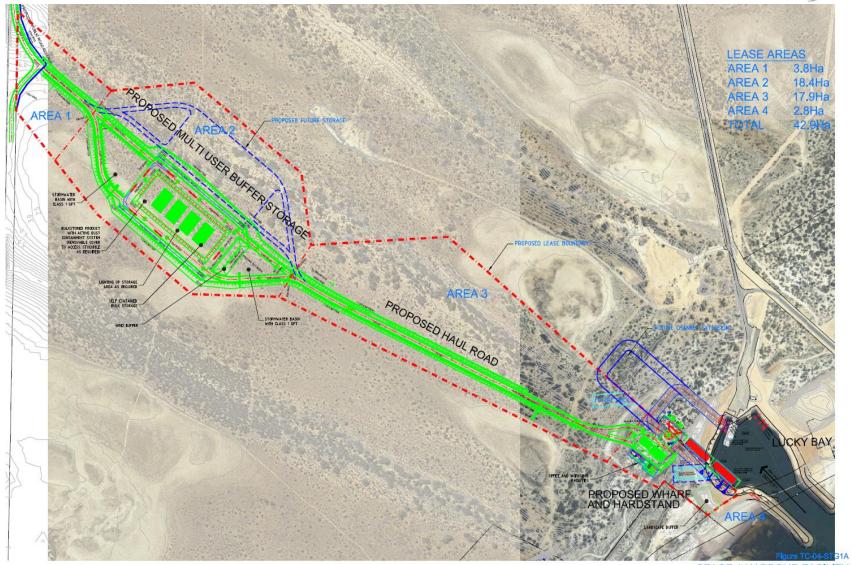
Export Facility - Approvals



- Lucky Bay Development Application
 - Section 49 Public Infrastructure SA Government Sponsorship Approved 9 April 2011
 - Development Application Approved 5 April 2012
- Lucky Bay Development Variations
 - Variation Application A Transhipment Point Relocation
 Submitted
 - Variation Application B Buffer Storage and Haul Road Relocation In progress
 - Variation Application C Temporary Harbour Loading Facility In progress
 - 3-4 Months SA Government Approvals process

Lucky Bay - Layout





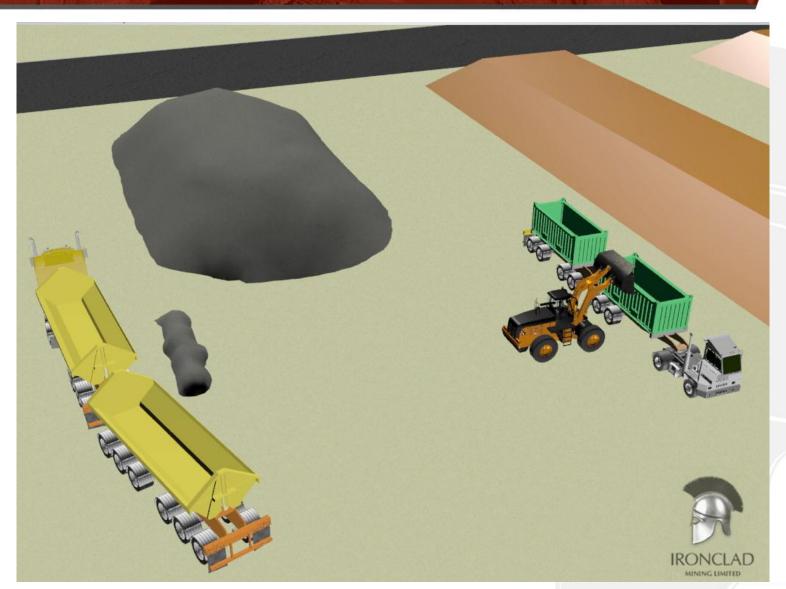
Lucky Bay – Buffer Stockpile Area



- Receives 3,000 tonnes per day, seven days per week in side tippers from mine.
- During ship loading, 9,000 tonnes per day of ore to be loaded into containers at the stockpile and delivered to the dock.
- Two vehicles with two loaded containers average cycle time of 20 minutes between stockpile and dock

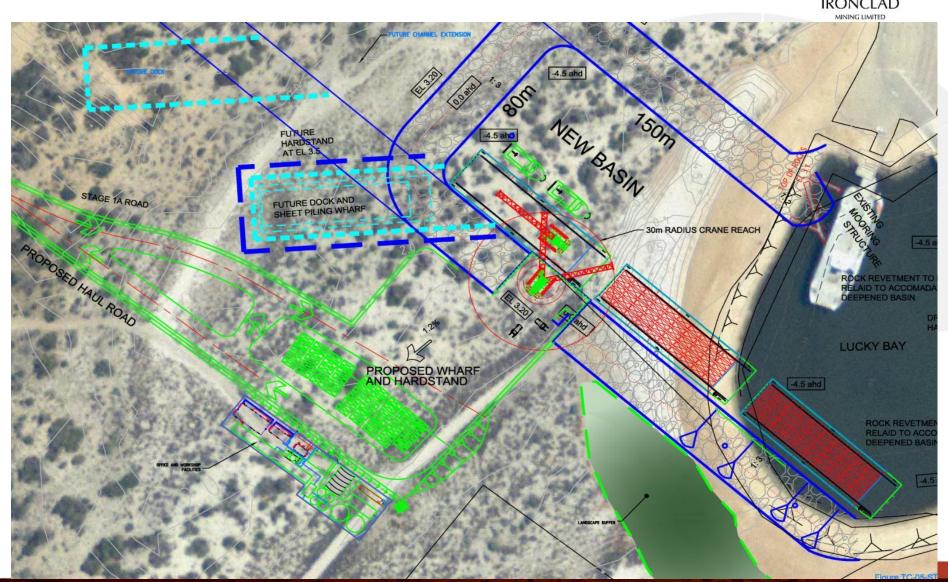
Buffer Stockpile Operation





Lucky Bay – Dock Area





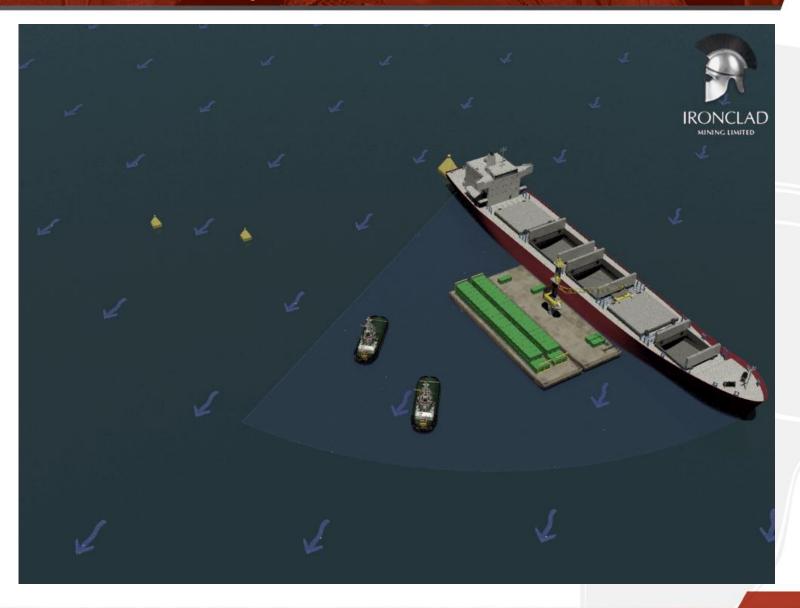
Port Operation



- Redesigned to increase throughput, reduce operating costs and de-risk operation
- Powered barge and light Tug Boat replaced with two Conventional Tugs, two Dumb barges and Floating Crane Barge
- Dumb barges substantially increase shipping capacity
- Floating Crane allow larger vessels to be loaded, reducing shipping costs

Offshore Operation





Revolver Spreaders



Rotating spreaders – two purchased, one on standby on crane barge



Port Capacity



	Tonnes per Day	Days to load Panamax (70,000t)	Days to load Cape (160,000t)	Possible tonnes per annum
First Vessel Two Barges Containers	6,000 tonnes	12 days	28 Days	1.8 million tonnes
Normal Two Barges Containers	9,000 tonnes	8 Days	18 Days	2.7 million tonnes
Normal Three Barges Containers	12,000 tonnes	6 days	14 Days	3.6 million tonnes
BULK				EVEN GREATER CAPACITY



Future Milestones

Future Milestones



- 1. Completion of updated Reserve
- 2. Approval of variation to Lucky Bay development (Including Buffer Storage Area)
- 3. Confirmed funding for GS plant (Stage 2)
- 4. Board approval

