**An NMDC Company** 

## ASX Announcement 14 October 2016

## **About Legacy Iron Ore**

Legacy Iron Ore Limited ("Legacy Iron" or the "Company") is a Western Australian based Company, focused on iron ore, base metals and gold development and mineral discovery.

Legacy Iron's mission is to increase shareholder wealth through capital growth, created via the discovery, development and operation of profitable mining assets.

The Company was listed on the Australian Securities Exchange on 8 July 2008. Since then, Legacy Iron has had a number of iron ore, manganese and gold discoveries which are now undergoing drilling and resource definition.

#### **Board**

Narendra Kumar Nanda, Non-Executive Chairman

**Devinder Singh Ahluwalia,** Non-Executive Director

Tangula Rama Kishan Rao, Non-Executive Director

**Devanathan Ramachandran,** Non-Executive Director

Timothy Turner, Non-Executive Director

Rakesh Gupta, Chief Executive Officer Ben Donovan, Company Secretary

#### **Key Projects**

Mt Bevan Iron Ore Project South Laverton Gold Project East Kimberley Gold, Base Metals and REE Project

### **Enquiries**

Rakesh Gupta Chief Executive Officer Phone: +61 8 9421 2000

ASX Codes: LCY

GROUND FLOOR 15 RHEOLA STREET WEST PERTH WA 6005

PO BOX 5768 ST GEORGES TERRACE WA 6831

Phone: +61 8 9421 2005
Fax: +61 8 9421 2001
Email: info@legacyiron.com.au
Web: www.legacyiron.com.au

ASX Market Announcements ASX Limited Via E Lodgement

# SIGNIFICANT DRILL RESULTS AT MT CELIA GOLD PROJECT

## Highlights include:

- Drill intersections confirm mineralisation extends below the current known resource
- 8m @ 5.32g/t Au incl. 2m @11.9g/t from 78m to 86m in BPC096
- 8m @ 7.22g/t Au incl. 2m @20.1g/t from 108m to 118m in BPC103
- 4m @ 3.35g/t Au incl. 2m @5.24g/t from 112m to 116m in BPC098
- 4m @3.24g/t Au incl. 2m @4.08g/t from 100m to 104m in BPC104
- 2m @6.60g/t Au from 160m to 162m in BPC 097

Legacy Iron Ore Limited (**Legacy Iron** or the **Company**) is pleased to announce that its plans to upgrade the Company's gold resources has received a boost, with the receipt of significant results from the recently completed RC drilling program at the Mt Celia Gold Project (Figure 1).

A 1,960 metre RC drilling (15 drill holes) program has recently been successfully completed with the aim to upgrade and expand the company's known gold resources.

The drilling was targeted on the Blue Peter and Coronation prospects where previous drilling program produced numerous high grade gold intersections over a strike length of approximately 790m and 250m respectively (Refer to ASX announcement dated 2 September 2010).

Drill holes in this program were positioned to confirm the continuity of mineralisation at depth, along strike and down dip of mineralisation at both the prospects.

#### Mt Celia

The Mt Celia Project lies within the Laverton Tectonic Zone some 40km south of the Sunrise Dam gold mine (8Moz gold resource), as shown in Figures 1.

The Project currently contains two JORC compliant gold resources, being the Kangaroo Bore - Inferred resource of 46,000oz gold (1.04Mt @ 1.4g/t gold using a 0.7g/t cut-off), and Blue Peter - Inferred resource of 30,554oz gold (239,232t @ 3.97g/t gold using a 1.0g/t cut-off). (See appendix 1 below for resource table)

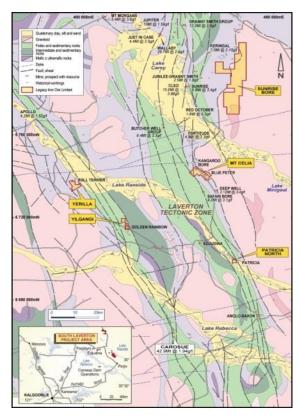


Figure 1: South Laverton Gold Project - Mt Celia

## **Drilling Program**

The recently completed third phase RC drilling program was focused on the Blue Peter shear system containing several small historic gold workings (Figures 2 and 3). The shear system extends over a distance of at least 2 kilometres, and consists of single, parallel or en echelon quartz filled shears within mafic and lesser ultramafic lithologies, that flank an eastern granitoid.

This geometry coupled with the widespread gold dry blowings is favourable for a bulk tonnage gold potential for the system.

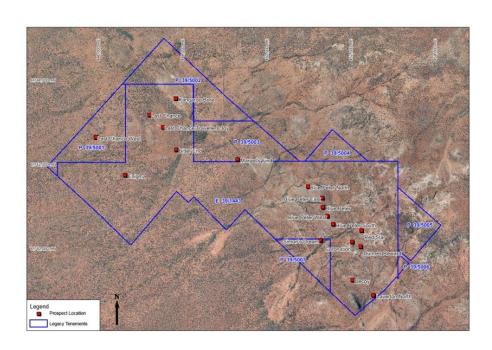


Figure 2: Mt Celia Project- Aerial image showing Blue Peter, Coronation and other prospects

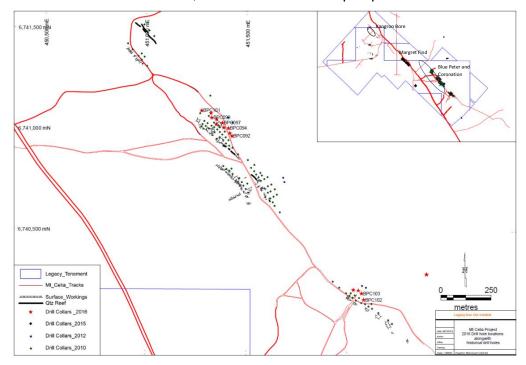


Figure 3: Blue Peter & Coronation Prospect – August 2016 Drill hole location along with historical drilling.

The initial review of the results of this round of drilling confirms the continuity of the significant intersections along the dip up to a depth of 70m (vertical depth). Gold mineralisation appears to be

associated mainly with the hanging wall and footwall contacts of a quartz lode – a zone of the quartz vein and stringers that shows patchy visible gold and pyrite.

Details of the significant intersections (Au>1.0g/t) from the current round of drilling is shown in the table below -

Hala ID	Northing	Facting	Din	Azimuth	RL Depth in metre		End of Hole	Au in a/t	Comments	
HOIE ID	Northing	Easting	υр	Azimutn	KL	From	То	Elia di Hole	Au iii g/t	comments
BPC092	6740966	451427	-60	220	411	90	92	120	1.18	2m at 1.18
BPC093	6740980	451416	-60	220	410	98	100	126	1.18	2m at 1.18
BPC094	6741005	451410	-60	220	417	134	136	156	4.12	2m at 4.12
BPC095	6741008	451387	-60	220	416	86	88	120	1.54	2m at 1.5
BPC096						78	80		11.9	
BPC096	6741024	451350	-60	220	420	80	82	100	5.99	8m at 5.32 ; includes 2m at 11.9
BPC096	0/41024	431330	-00	220	420	82	84	100	2.25	
BPC096						84	86		1.14	
BPC097	6741031	451379	-60	220	421	156	158	180	4.58	2m at 4.58
BPC097	6741031	451379	-60	220		160	162	180	6.6	2m at 6.6
BPC098	6741048	451351	-60	220	420	112	114	144	5.24	4m at 3.35
BPC098	0741046	431531	-00	220	420	114	116	144	1.47	
BPC099						94	96		1.33	
BPC099	6741057	451327	-60	220	420	96	98	126	1.91	8m at 1.51
BPC099	0/4103/	431327	-00	220	420	98	100	120	1.37	
BPC099						100	102		1.43	
BPC101	6741092	451277	-60	220	421	78	80	126	3.69	2m at 3.69
BPC102	6740159	452085	-60	215	433	68	70	108	4.17	2m at 4.17
BPC103						108	110		5.04	
BPC103	6740190	452075	-60	215	430	110	112	138	1.89	8m at 7.22; includes 2m at 20.1
BPC103	0740130	432073	-00	213	430	112	114	130	1.87	
BPC103						116	118		20.1	
BPC104						100	102		4.08	6m at 2.56; includes 4m at 3.24
BPC104	6740205	452057	-60	215	430	102	104	132	2.41	
BPC104						104	106		1.21	
BPC105	6740207	452033	-60	215	431	78	80	114	2.45	2m at 2.45
BPC106	6740206	452005	-60	215	434	56	58	102	1.01	2m at 1.01

Table 1: Table showing all the intersections of gold mineralisation with gold assay more than 1.0g/t

As a next step, the current geology and resource model for the project will be updated, resulting in a likely increase in the resource estimates for the project.

Yours faithfully, Rakesh Gupta Chief Executive Officer

The information in this report that relates to Exploration Results is based on information compiled by Bhupendra Dashora who is a member of AusIMM and employee of Legacy Iron Ore Limited. Mr.Dashora has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Mr. Dashora consents to the inclusion in this report of the matters based on his information in the form and the context in which it appears.

# Appendix 1: RESOURCE TABLE

(Refer announcement on 15 Dec 2010)

		<b>RESOURCE</b>	<b>LOWER CUT</b>			
PROJECT	<b>DEPOSIT</b>	<b>CATEGORY</b>	<u>OFF</u>	<b>TONNAGE</b>	<b>GRADE</b>	<u>GOLD</u>
			g/t Au	<b>Tonnes</b>	g/t Au	<u>oz</u>
Mt Celia	Kangaroo	Inferred	0.7	1,037,000	1.4	46,400
	Bore					
Mt Celia	Blue Peter	Inferred	1	239,232	3.97	30,554
<b>Total Gold</b>						
OZ						76,954

# Appendix 2

# **JORC CODE 2012 TABLE 1**

# SECTION 1 SAMPLING TECHNIQUES AND DATA

Criteria	JORC Code explanation	•	Commentary
Sampling techniques	<ul> <li>Nature and quality of sampling (eg contannels, random chips, or specific specialises industry standard measurement too appropriate to the minerals under investigation, such as down hole gamme sondes, or handheld XRF instruments, etc. These examples should not be taken a limiting the broad meaning of sampling.</li> <li>Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools of systems used.</li> <li>Aspects of the determination of mineralisation that are Material to the Public Report.</li> <li>In cases where 'industry standard' work has been done this would be relatively simple (expressed in the 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 gothat has inherent sampling problems. Unusual commodities or mineralisation types (explanation modules) may warrant disclosure of detailed information.</li> </ul>	d d d d d d d d d d d d d d d d d d d	Reverse circulation (RC) samples were collected as 2m samples at the rig using a rig mounted cone splitter and An approximate 2.5 to 3.5kg sample was submitted to SGS lab which was were dried, crushed and pulverized to produce 30gm charge for fire assay analysis.  Quality control procedures include submission of Certified Reference Materials (standards), duplicates and blanks with each sample batch. QAQC results are reviewed to identify and resolve any issues. Field duplicates were taken at selected intervals.  Geological logging of RC chips is completed at site with representative chips being stored in drill chip trays.
Drilling techniques	<ul> <li>Drill type (eg core, reverse circulation, open hole hammer, rotary air blast, auger, Bangko sonic, etc) and details (eg core diameter, tripo or standard tube, depth of diamond tails, face sampling bit or other type, whether core oriented and if so, by what method, etc).</li> </ul>	i, e :-	Reverse Circulation drilling was conducted using a face sampling hammer with a 128mm bit.
Drill sample recovery	<ul> <li>Method of recording and assessing core and chip sample recoveries and results assessed.</li> <li>Measures taken to maximise sample recover and ensure representative nature of the samples.</li> <li>Whether a relationship exists between sample recovery and grade and whether sample bid may have occurred due to preferential</li> </ul>	y e • e	RC sample recovery was based on visual estimates and recorded in the drilling database. Recovery was generally good.  No quantitative measures were taken for sample recovery for this RC drill program.  The results of this RC drilling have

Criteria	JORC Code explanation	• Commentary
	loss/gain of fine/coarse material.	not been compared with any diamond drill core (diamond twin hole etc) so far however, It is not expected that there would be any bias due to preferential loss/gain of material.
Logging	<ul> <li>Whether core and chip samples have geologically and geotechnically logger level of detail to support appropriate to Resource estimation, mining studies metallurgical studies.</li> <li>Whether logging is qualitative or quantin nature. Core (or costean, channel photography.</li> <li>The total length and percentage relevant intersections logged.</li> </ul>	d to a using field log sheets and company geological coding system based on industry standards. Data on lithology, colour, deformation, structure, weathering, alteration, veining and mineralisation were recorded. Field data is then
Sub-sampling techniques and sample preparation	<ul> <li>If core, whether cut or sawn and we quarter, half or all core taken.</li> <li>If non-core, whether riffled, tube say rotary split, etc and whether sampled dry.</li> <li>For all sample types, the nature, qual appropriateness of the sample prepatechnique.</li> <li>Quality control procedures adopted sub-sampling stages to mare representivity of samples.</li> <li>Measures taken to ensure that the sam representative of the in situ mand collected, including for instance resulting duplicate/second-half sampling.</li> <li>Whether sample sizes are appropriated grain size of the material being sampled.</li> </ul>	using a cone splitter to obtain 2m sampled, samples for laboratory analysis.  Nearly all samples were sampled dry.  An approximate 2.5 to 3.5kg sample was submitted to SGS Perth for analysis. All samples were dried, crushed and pulverized. This sample preparation is appropriate for the sample type.  Pling is Quality control procedures include submission of Certified Reference e Materials (standards), duplicates and blanks with each sample batch. QAQC results are reviewed to i

Field duplicates were taken at

selected intervals.

Criteria	•	JORC Code explanation	•	Commentary
			•	The sample size is appropriate for the targeted mineralisation style and grain size.
Quality of assay data and laboratory tests	•	The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.  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.  Nature of quality control procedures adopted (eg standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (ie lack of bias) and precision have been established.	•	Assaying completed by SGS Laboratory, Perth for Gold using a 30 gm fire assay technique and Atomic Absorption Spectrophotometer (AAS) finish, which has 0.01 ppm detection limit. The technique is considered as total.  Laboratory QAQC involves the use of internal lab standards using certified reference material (CRMs), blanks and pulp duplicates as part of in house procedures. The Company also submited a suite of CRMs, blanks and selects appropriate sam ples for duplicates.
Verification of sampling and assaying	•	The verification of significant intersections by either independent or alternative company personnel.  The use of twinned holes.  Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.  Discuss any adjustment to assay data.	•	Significant intersections are verified by the Senior Geologists.  No twin holes at this stage Primary data collected on paper logs in field with transfer to digital format in office. Manually validated.  Assay data are imported directly from digital assay files supplied direct from the laboratory and merged in the database with sample data. Normal in-house data storage and daily back up of all data.  No adjustment to assay data made
Location of data points	•	Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation.	•	Drill holes have been located and pe gged using by hand held Garmin GPS – accuracy to nominal +/- 5m for easting, northing and elevation.

• Specification of the grid system used.

• Quality and adequacy of topographic control.

• Grid system – GDA1994, MGA Zone

Downhole survey are conducted u sing a single shot camera (Camteq

Criteria	JORC Code explanation	•	Commentary
		•	Proshot Camera probe -CTPS200) approximately every 30m soon after the drilling to record any deviations of the hole from the planned dip and azimuth. There is no topographical control
			apart from GPS elevation reading. This is adequate at this stage and level terrain. However; in near future the company may collect all the drill collar locations and elevation details using DGPS to ensure the accuracy.
Data spacing and distribution	<ul> <li>Data spacing for reporting of Exploration Results.</li> <li>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.</li> </ul>	; !	The planned Reverse Circulation (RC) drill program is targeting depth extension the known gold mineralisation using geological criteria.  The spacing and distribution of the drill holes is appropriate enough to confirm the projected depth extensions of mineralisation.
	<ul> <li>Whether sample compositing has been applied.</li> </ul>	•	The 15 drill holes discussed in this announcement have not been used for any resource estimate at this stage.  No sample compositing has been applied to the data
Orientation of data in relation to geological structure	<ul> <li>Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.</li> <li>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</li> </ul>		Drill holes were planned as perpendicular as possible to the projected extensions of the mineralised structure (quartz vein) however the orientations of it may vary at very local scale.  No orientation based sampling bias
Sample security	<ul> <li>assessed and reported if material.</li> <li>The measures taken to ensure sample security.</li> </ul>	•	in sampling.  Samples are sealed in calico bags, which are in turn placed in large polyweave bags for transport. The bags are directly taken to a commercial transport company, and plastic wrapped on pallets for direct

Criteria	•	JORC Code explanation	•	Commentary
				transport to the laboratory. Documentation is via a sample submission form and consignment note. The laboratory checks the samples received against the consignment and submission documentation and notifies Legacy of any missing or additional samples. Upon completion of analysis, the pulp packets, residues and coarse rejects are held in their secure warehouse. On request, the pulp packets (and other materials if desired) are returned to Legacy for secure storage. Chip trays of RC cuttings are taken on a 1m sample basis and independently securely stored by Legacy.
Audits or reviews		e results of any audits or reviews mpling techniques and data.	of •	There has been no review of sampling techniques or data at this stage.

# **Section 2 Reporting of Exploration Results**

(Criteria listed in the preceding section also apply to this section.)

Criteria	JORC Code explanation	• Commentary
Mineral tenement and land tenure status	<ul> <li>Type, reference name/number, location ownership including agreements or material issues with third parties such as joint of partnerships, overriding royalties, nat interests, historical sites, wilderness of national park and environmental settlements.</li> <li>The security of the tenure held at the reporting along with any known impertion obtaining a licence to operate in the</li> </ul>	exploration Licence E39/1443 which is currently owned 100% by Legacy. At the time of reporting, there are no known impediments to the tenement and it is in good standing. time of diments
Exploration done by other parties	<ul> <li>Acknowledgment and appraisal of exp by other parties.</li> </ul>	of alluvial gold prospecting for a number of years, with particular attention being directed towards the Dunn's Reward, Coronation and Blue Peter Prospects. Alluvial methods employed in these areas have included the use of; a trailer mounted alluvial plant; a portable dry blower; trenching, panning and

Criteria	JORC Code explanation	• Commentary
		<ul> <li>The project area has been drilled by a number of exploration companies over the years. The programs varied from; reconnaissance exploration drilling across the strike length of the felsic volcanic unit in the western part of the project; evaluating the gold potential of auriferous quartz veins beneath historic gold workings for example at the Blue Peter, Coronation, Bitter End, Enigma, and Lady Kate Prospects; to resource definition drilling at the Kangaroo Bore Prospect.</li> </ul>
Geology	Deposit type, geological setting and style of mineralisation.	<ul> <li>The Mt Celia project is situated on the eastern margin of the Norseman-Wiluna Achaean Greenstone Belt within the Linden Domain of the Eastern Goldfields Province of the Yilgarn Craton.</li> <li>The Project area is underlain by an assemblage of deformed and altered Archaean greenstone lithologies of the Linden Domain which have been intruded by foliated pre-to syn-tectonic adamellite and syenite granitic rocks. The mafic metavolcanic rocks have been subjected to mediumgrade metamorphism with a higher amphibolite-grade metamorphic zone lying along the granite-greenstone contact.</li> <li>The project area is prospective for gold mineralisation (organic gold) which is typified elsewhere in the Yilgarn Craton. There are a numbers of old workings for gold are present in the project area.</li> </ul>
Drill hole Information	<ul> <li>A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes: easting and northing of the drill hole collar</li> </ul>	<ul> <li>Details of the drill holes from this recent program are shown in the included figure 3 and table 1 within the body of text.</li> </ul>

Criteria	JORC Code explanation	<ul> <li>Commentary</li> </ul>
	elevation or RL (Reduced Level – e above sea level in metres) of th collar dip and azimuth of the hole down hole length and interception hole length.  If the exclusion of this information on the basis that the information of Material and this exclusion does n from the understanding of the rep Competent Person should clearly e this is the case.	depth  is justified s not ot detract ort, the
Data aggregation methods	<ul> <li>In reporting Exploration Results, was averaging techniques, maximum of minimum grade truncations (eg cut grades) and cut-off grades are usu Material and should be stated.</li> <li>Where aggregate intercepts incorplengths of high grade results and I lengths of low grade results, the pused for such aggregation should and some typical examples of such</li> </ul>	drilling results so all the gold assays more than 1.0 g/t from recent program has been reported in this announcement.  Any high grade gold assay intervals internal to broader zones of gold mineralisation are reported as included intervals.
	<ul> <li>aggregations should be shown in a The assumptions used for any report metal equivalent values should be stated.</li> </ul>	orting of
Relationship between mineralisation widths and intercept lengths	<ul> <li>These relationships are particularly in the reporting of Exploration Reservation In the geometry of the mineralisation respect to the drill hole angle is known at the should be reported.</li> <li>If it is not known and only the down lengths are reported, there should statement to this effect (eg 'down true width not known').</li> </ul>	downhole lengths. Drill holes were planned as perpendicular as possible to interpreted projections (geometry) of mineralisation so the downhole lengths are indication only of near true width (true width

• Not applicable for the sampling

Criteria	•	JORC Code explanation	•	Commentary
				method used.
Diagrams	i I	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 drill hole collar locations and appropriate sectional views.	•	Refer to figure and table included in the text for location and lengths of intercepts in each of the holes. The detailed cross sections and interpretation will be reported once this data is interpreted along with historical data sets.
Balanced 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.	•	All results more than 1.0 g/t are reported in this announcement.
Other substantive exploration 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.	•	No other exploration data collected to date is considered material or meaningful at this stage.
Further work	• L	The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale step-out drilling). Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.	•	This recent drilling data will be combined with all historical drilling data and interpreted to update the gold resource for the project.  Also other future work is under planning.