

**Annual General Meeting Presentation** 

**November 2019** 









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**COMPETENT PERSON STATEMENT:** The information in this report that relates to ASX announcements containing competent persons statements in "MRV Metals confirms Harrier Prospect Potential 18 July 2016, MRV Metals Confirms Significant Target at Hornet 19 July 2016 and Hawker Prospect 18 July 2016." The announcement also relies upon the ASX release upon the 21<sup>st</sup> April 2017 stating "Re-release of heap leach stock piles data". These announcements contain a separate Competent Person Statement and are available on the Company's website: <a href="https://www.moretonresources.com.au">www.moretonresources.com.au</a> and the ASX.

The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements and, in the case of estimates of Mineral Resources or Ore Reserves that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcement.



#### **COMPANY OVERVIEW**





- Current Open Pit Silver Mine & processing plant
- 7+ years Life of Mine with further potential
- Forecast 900,000 1,200,000 oz/yr at C1 cost ~\$12.50/oz
- Located at Texas on the Queensland / New South Wales Border  $\sim$  4 hours from Brisbane

Twin Hills and Mt Gunyan Mineral Resource Estimate JORC 2012\*

- Total of **12,062,000 tonnes** at a grade of 53g/t
- Total of 20.3 Million Ounces of Contained Silver

Class	Tonnes	Ag g/t	Au g/s
Measured	1,640,000	75.8	0.10
Indicated	5,586,000	44.1	0.08
Inferred	1,147,000	48.8	0.06
TOTAL	8,373,000	51.0	0.08
Class	Tonnes	Ag g/t	Au q/t
Measured	160,000	61.0	0.11
Measured Indicated	160,000 3,130,000	61.0 56.1	
			0.11

- Significant exploration potential for Cu, Au, Ag, Pb & Zn
- \*Mineral Resource Estimate (JORC, 2012) reproduced from the original report announced: 19<sup>th</sup> Sept and 4<sup>th</sup> Oct 2016 (ASX:MRV, http://www.asx.com.au)



- · Proposed Open Cut Thermal Coal Mine
- Mining Lease Application (MLA) in progress
- Export quality Thermal Coal + domestic supply
- Located ~14km from one of Queensland's largest Power Stations – Tarong Power Station
- >900mt of JORC Resources

		JORC 2	017		100 m
Asset	Total Tonnes	Measured	Indicated	Inferred	Estimated Inventory (Including JORC)
MLA 700015	524.1Mt	134Mt	383.5Mt	6.6Mt	600Mt
		JORC 2	015		Estimated Inventory
Asset	Total Tonnes	Measured	Indicated	Inferred	(Including JORC)
MDL 385 (inclusive of MLA)	534.1Mt	116.4Mt	397.3Mt	20.4Mt	620Mt
EPC 882	377.8Mt	49.8Mt	315.3Mt	12.7Mt	700Mt



- · High quality export Metallurgical / PCI Coal product
- World renowned Bowen Basin location
- Potential Underground Longwall Operation
- Access to existing infrastructure
- Surrounded by operating Metallurgical Coal Mines

Asset		JORC 2015					
	Total Tonnes	Measured	Indicated	Inferred	(Including JORC)		
MDL 503	138.1	-	65.1Mt	73Mt	220Mt +		
EPC 1445		Up	side potent	ial	20Mt +		



- High quality export Thermal Coal product
- Established Coal mining Basin Surat Basin
- Potential Underground Longwall Operation
- Access to existing infrastructure in planning
- Existing operating Thermal Coal Mines in region

	009		Estimated Inventor		
7.0501	Total Tonnes	Measured	Indicated	Inferred	(Including JORC)
ЛDL 420	341MT	-	34Mt	307Mt	1,000Mt +



#### What has been achieved 2018-2019

#### Safety

 Continued strong performance in safety with another year of Nil Lost Time Injuries within the Group of Companies, including MRV Metals Pty Ltd despite commissioning, rehabilitation and ramp up activities.

#### **Environmental**

✓ Significant enhancement of environmental value across the Granite Belt Project Site with reduced water balances, increased water qualities, re-instatement of drainage channels and environmental protection mechanisms.

#### Social

✓ Strongly supporting the Granite Belt and Southern Downs Region with employment, contract awards and local purchasing.

#### **Production**

✓ Successfully completed re-commissioning of MRV Metals Granite Belt Project and commenced Silver production.

#### Legal

- ✓ Successful Federal Court Appeal of the AAT matter with expected positive conclusion in Quarter 1, 2020.
- ✓ Department of Environment & Science (DES) matter advanced with positive conclusion expected in Quarter 1, 2020.



#### Strategic Focus 2019-2020 and beyond

- ✓ Advancement of MRV Metals Granite Belt Project into full production to unlock the true value of this asset.
- ✓ Further investigate the significant exploration intercepts of Copper, Gold, Silver, Lead and Zinc that exist on our Tenure at the MRV Metals Granite Belt Project.
- ✓ Delivery of a final optimised mine plan and subsequent product specification, to assist in final approvals and technical evaluation of the South Burnett Coal project.
- Review and upgrade of the MRV Bowen Basin Project, Mackenzie, through further exploration and studies of the metallurgical coal present.
- ✓ Surat Basin / Wandoan Project continue to add value through further exploration and continue discussions with third parties and determine the best way forward for shareholder value.













**Texas Open Pit Silver Mine & Processing Plant** 

- RAMPING UP PRODUCITON

- CASH FLOW

- MAJOR PROJECT ADVANCEMENT AND

- EXPLORATION











#### Location

- ➤ Located at Texas, QLD on the QLD NSW Border
- ➤ Agricultural region comprising of cropping, cattle and sheep
- ➤ A long history of silver mining commenced 1891.
- ➤ Since 1891 > 2 Million Oz of Silver has been produced in the region.
- ➤ Historical intercepts of > 6,000g/t Silver





#### Re-Commissioning of the Site Completed

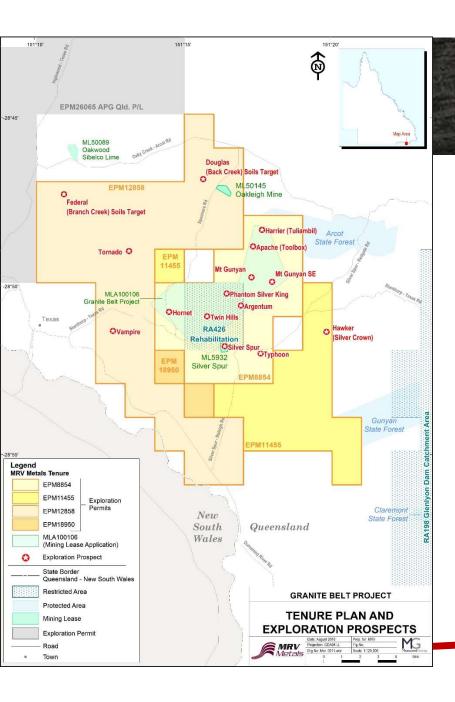












#### Mineral Resources - Silver



Twin Hills and Mt Gunyan Mineral Resource Estimate JORC 2012\*

- Total of **12,062,000 tonnes** at a grade of 53 grams per tonne.
- Total of **20.3 Million Ounces** of contained Silver metal.

Twin Hills in situ Mineral Resource above 26.5g/t Ag remaining at end of Feb 2014									
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Measured	1,640,000	75.8	0.10						
Indicated	5,586,000	44.1	0.08						
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<sup>\*</sup>Mineral Resource Estimate (JORC, 2012) reproduced from the original report announced: 19th Sept and 4th Oct 2016 (ASX:MRV, http://www.asx.com.au)



## Updated Mine Plan for commencement early 2020

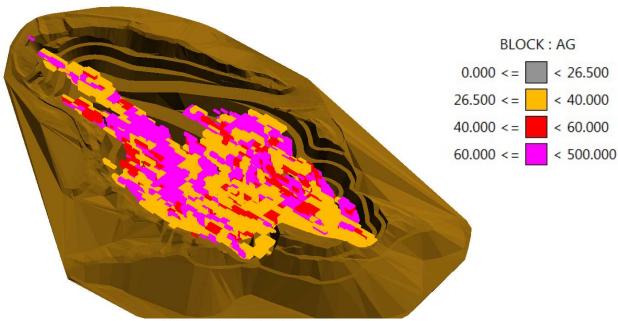
Final mine plan beyond restart strategy base case, shows substantive upside



As per market release upon the ASX 22 Nov 2018 "Progress Report MRV Metals Pty Ltd" mine planning has moved from a strip ratio of 1.7/1 waste to ore, to 1/1 of waste to ore, with forecast drop in operating costs to flow from this outcome. Additional credit in grade for minor gold recoveries through processing not factored in.



## Resources Remaining in Existing Pit Design



Using th\_sg3.dtm pit design

SOUR	CE	PRODUCT	AG	TONNES	OUNCES	
th_model_fe	b10.bmf	WASTE	16.80	4,977,228		
th_model_fe	b10.bmf	LG	31.65	1,741,790	1,772,593	
th_model_fe	b10.bmf	MG	50.06	704,162	1,133,452	
th_model_fe	b10.bmf	HG	93.34	1,400,434	4,203,104	
			57.48	3,846,386	7,109,149	_

- Using the Stage 3 pit design (Sept 2012) we can calculate how much resource remains in the pit.
- The latest surface found was EOM\_Feb14
- The resource between the pit and the EOM surface gives us the tonnes and grade of what we can expect to be mined.



## Key Financials.

- Production of 75,000oz -100,000oz / mth Silver (including gold equivalents) for first eight years of operation (7 years mining + 1 year of leaching at end)
- A total C1 cash cost of ~ AU\$12.50/oz
- A total forecast all-in cash cost of ~<AU\$14/oz</li>
- Forecast NPV of ~ midpoint AU\$ 76Million with a range of AU\$30 \$124 Million taking into account a 30% positive and negative swing in potential profits which could be effected by spot price, exchange rate or production costs.



#### **Forward Plan**

#### **Start Up**

#### 0-12 Months

- Re-commission Treatment Area of crushed ore on Heap Leach Pad 4 (HL4).
- Correct HL4 ore to pH positive neutralisation.
- Irrigation underway, silver recoveries positive and continue to grow.

#### Ramp Up & Mining

#### **1-7 Years**

- Treatment of all remaining existing crushed ore Heaps (1,2,3) totalling ~1.5mt for a total of approximately **2 Million oz** of contained silver
- Crusher refurbishment followed by processing & treatment of existing Ore Stockpiles.
- Re-entry into existing Pit for Mining of higher grade material.
- Mining in Pit and crushing fresh ore @ 1.1mt ore / year for 900,000 1,200,000 Oz / yr.
- Advance multiple exploration targets around the existing operation.
- Many of these areas are already within the ML.
- Look to advance Copper, Gold, Silver, Lead and Zinc prospects.





# Exploration Strategy and Geological Overview

**Upside Potential Awaiting to be unlocked** 



## Granite Belt Project Overview



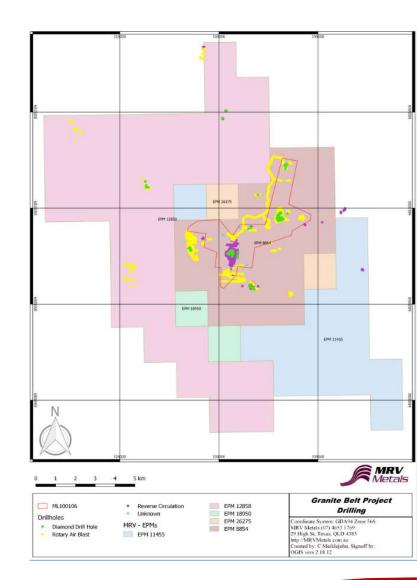








- No large scale or unified geological, geophysical or multi-element geochemical studies undertaken
- No drill data below 200m vertical (near-Twin Hills, 260m at Hornet and Silver Spur).
  - Mineralisation open along strike and down dip
  - No "deep" drilling completed.
  - Vast potential for addition to known deposits.
  - Small percentage of the tenement package drill tested
- Upside includes
  - · High grade intersections from previous drilling, untested in follow up drilling
  - > TUD002 5 m @ 328 g/t Ag, 6.0% Cu and 3.4% Zn from 93 m.
  - MTGE004 6 m @ 53 g/t Ag from 20 m.
  - Chip sampling upto 184 g/t Ag, 2.5% Cu, 3.4% Zn and 13.7% Pb
  - 'Walk up' targets ready for drilling.
  - Limited historical mine production.
- Geology somewhat overlooked, stratigraphy and structure appears to play important role in mineralisation control





## Texas Silver Exploration Permit Minerals (EPM)

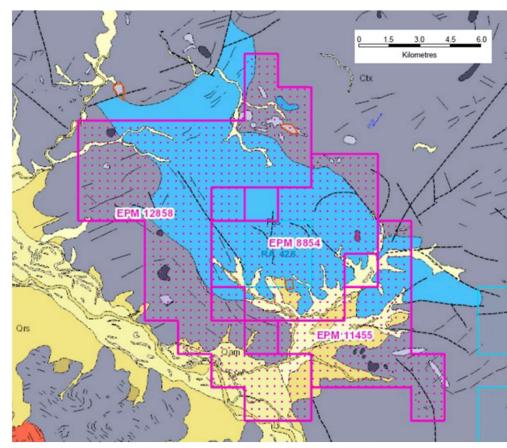
Geology

Permits cover prospective Silver Spur Beds in blue which host existing mineralisation

- A number of mining operations since 1890s
- Silver Spur mine produced 100 kt at
  - 800 g/t Ag,
  - 25% Zn and
  - 13% Pb
- Twin Hills silver mine produced 1.4 Moz silver from 2008 to 2014

Prospective for mineralisation styles -

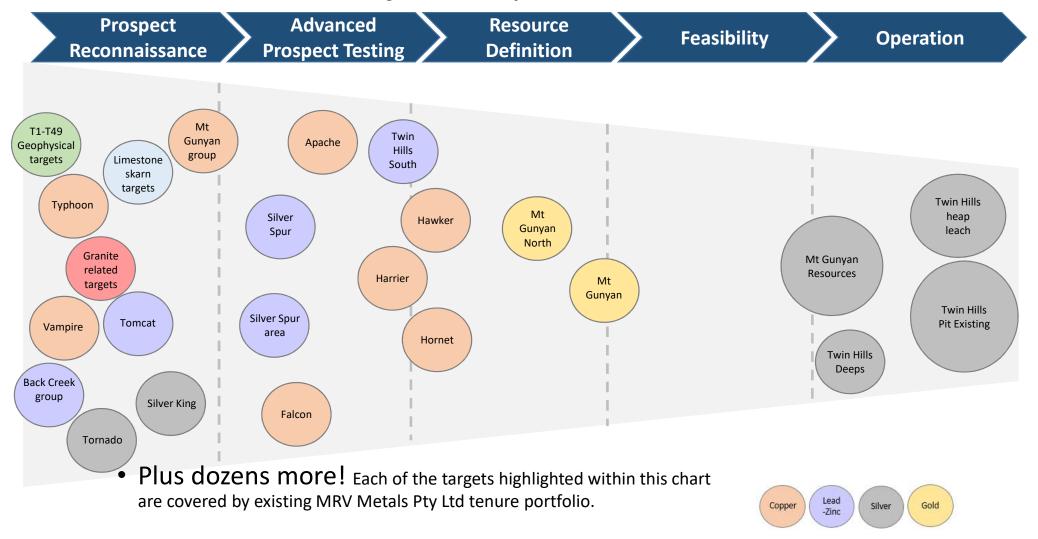
- Silver rich epithermal
- Base metals including copper and zinc-lead

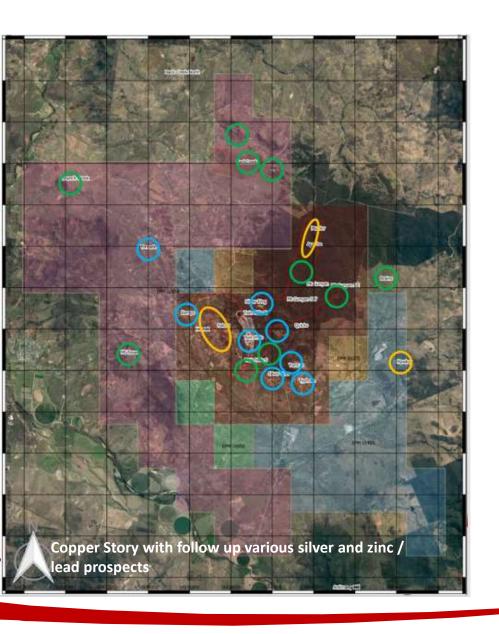




#### Moreton Resources

## Granite Belt Project Pipeline





## Granite Belt Project Exploration Strategy

- Several underlying strategies in place;
  - Copper
  - Follow up various silver and zinc/lead prospects
  - Test favourable geochemical and geophysical targets (dozens of untested targets!)
  - Ensure tenement expenditure is occurring but with value-adding techniques to advance prospects and understanding – mapping, desktop studies, soil sampling, geophysics (SWIR, ground surveys)





**Grouped Coal Assets Overview** 

**November 2019** 







Part of the Moreton Resources Ltd Group of Companies



#### **Moreton Resources Limited Group**

MRV Bowen Basin Coal Pty Ltd

Potential Inventories topping 260Mt +

MRV Surat Basin Coal Pty Ltd

Potential
Inventories topping
1 Billion Tonnes
in-situ

MRV Tarong Basin Coal Pty Ltd

Potential
Inventories topping
1 Billion Tonnes
in-situ

In-situ Potential of 2 to 2.5 Billion Tonnes of Coal Inventories under the Moreton Resources Group Portfolio



#### **COMPANY OVERVIEW**



- MRV Bowen Basin Coal Pty Ltd
- 100% Fully Owned Subsidiary
- Current holder of two assets; MDL 503 and EPC 1145
- PCI /Coking Coal located in world renowned Bowen Basin, Queensland, Australia



### Coal Inventories 2015 - Mackenzie

Asset		JORC 2015						
	Total Tonnes	Measured	Indicated	Inferred	(Including JORC)			
MDL 503	138.1	-	65.1Mt	73Mt	220Mt +			
EPC 1445		Ups	side potent	20Mt +				

#### Notes:

- 1. JORC released in 2015.
- 2. 2017 Measured Group review of base geological data through scoping study, which supports mineability with potential significant inventories above released JORC statements of 2013 and 2015.
- 3. Significant potential upside with additional drilling or simply reinterpretation of base data for JORC purposes, with significant upside in a drill program upon EPC1445.

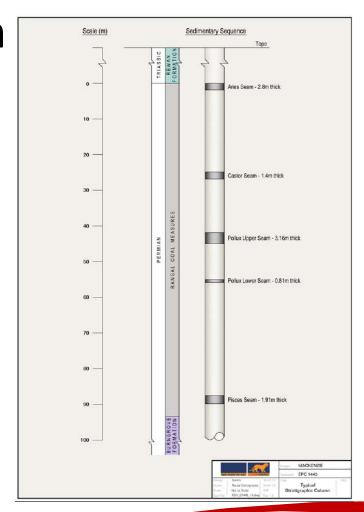




## Coal quality comparison within Region

**PCI & Semi Soft Coking Coal - Indicative Product Specifications** 

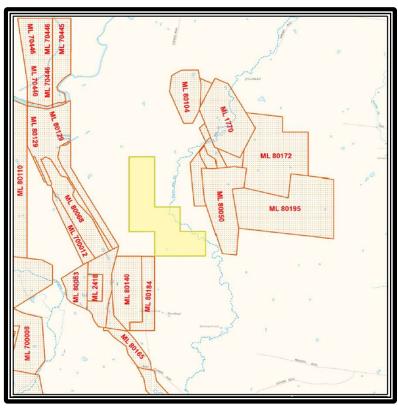
		Jellinbah	Yarrabee	Mackenzie
SPECIFICATION	PCI	Semi Soft Coking	Low Volatile PCI	PCI / Semi Soft Coking
Total Moisture (%ar)	8	8	8.5	7
Ash (%ad)	10.5	9.5	10.5 - 14.5	8.5
Volatile Matter (%ad)	15.5	15.5	10.5	13 - 16
Total Sulphur % (ad)	0.75	0.6	0.65	0.55
Cal. Value (kcal/kg gad)	7600	7600	6960 - 7400	7150 - 7550
CSN	2 - 3	2 - 3		1 - 5
Phos				0.03 - 0.05
Avg. Seam Thickness (m)				2.0
Average Yield (%)				67





## Well established mining region





MDL 503 – Surrounding Mining Leases

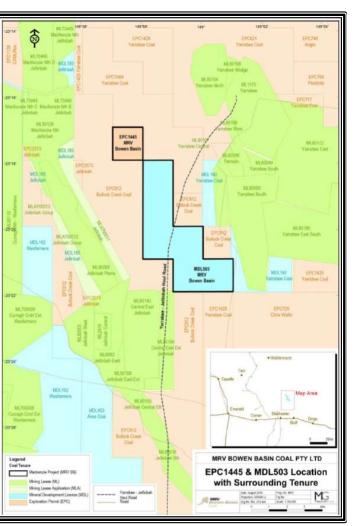
Central Location in highly profitable mining precinct



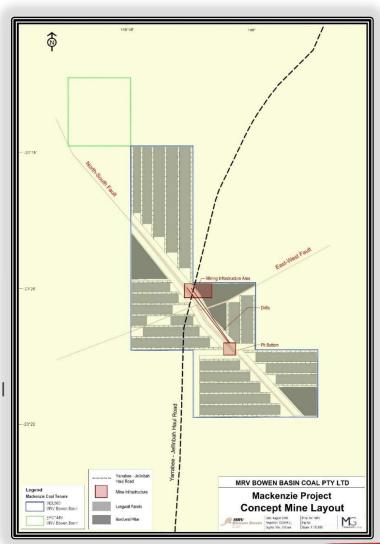
Private Coal Wash Plants and Haulage in Close Proximity







- 2013 Xenith report indicates highly mineable resources
- 2016 Measured Group Scoping Study supports multiple mining opportunities within resource
- Project feasibility scoping study, indicates positive NPV upon all four options at bottom end of Coal pricing cycle
- All studies undertaken upon stand alone operational potential
- Significant upside exists with toll treatment or JV, to maximise utilisation of existing infrastructure within the region





## Potential.....Forward Looking

- Prospect has three opportunities in addition to increased inventories and potential resources and reserves, by reinterpretation or additional drilling
  - Stand alone operation
  - Mine and toll treat through existing operators
  - JV with existing operator within region





## Significant Asset in Central Location

- These assets within this Company structure, have significant potential and the Coal Quality via existing public data of major operations surrounding, show proven long term saleability and profitability within the market.
- EPC requires additional work and strategic decision making to advance through the approvals process from early stage permitting
- MDL is well advanced in permitting process, in a well established mining area, with considerable Coal Quality and Scoping Studies undertaken offering this to be a highly perspective asset



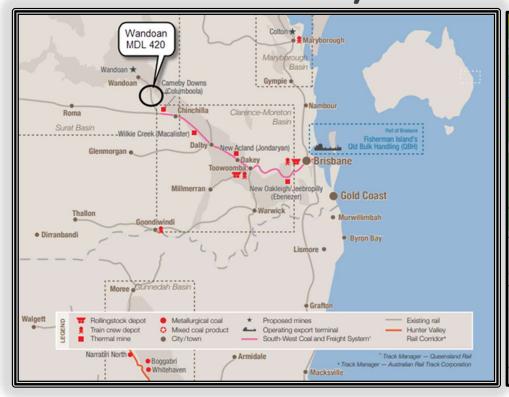
#### **COMPANY OVERVIEW**

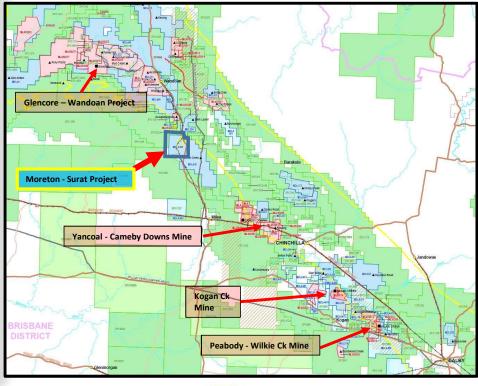


- MRV Surat Basin Coal Pty Ltd
- 100% Fully Owned Subsidiary
- Single Asset with significant footprint and close proximity to potential infrastructure advancement
- Significant inventories in addition to sizable early stage JORC, pre 2012 compliance



## Locality and Coal Neighbours











#### Coal Inventories

#### **EPC 1118 WANDOAN - RESOURCE DATA AND CATEGORIES**

Indicated Resources							Inferred Re	sources	
Seam Name	Average Thickness m	Relative density	Resource area m2	Tonnes millions	Seam Name	Average Thickness m	Relative density	Resource area m2	Tonnes millions
MA1	3.11	1.48	3,070,692	14.13	MA1	3.21	1.48	26,695,561	126.83
MA2	3.20	1.49	2,215,636	10.56	MA2	2.77	1.51	25,513,887	106.72
MA3	2.07	1.48	2,948,005	9.03	MA3	1.96	1.49	25,362,565	74.07
TOTAL IND	ICATED			33.7	TOTAL INF	ERRED			307.6

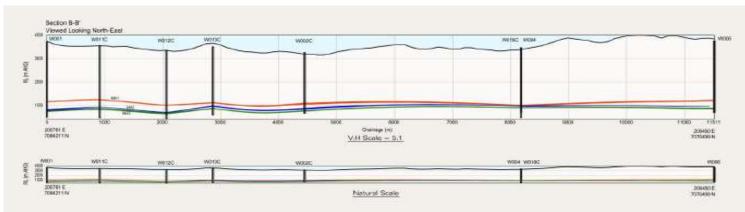
Asset		Estimated Inventory			
	<b>Total Tonnes</b>	Measured	Indicated	Inferred	(Including JORC)
MDL 420	341MT	-	34Mt	307Mt	1,000Mt +

Hole	Seam	From	To	Thick	Potential	Working Se	ection
					From	To	Thick
W001	KG1	236.54	236.96	0.42			
W001	KG2	254.12	256.65	2.53			
W001	MA1	287.89	293.95	6.06			
W001	MA2	294.44	297.67	3.23			
W001	MA3	298.82	300.79	1.97	287.89	297.67	9.78
W002C	MA1	215.97	221.58	5.61			
W002C	MA2	238.42	243.19	4.77			0
W002C	MA3	244.40	247.83	3.43	215.97	221.58	5.61
W004	KG1	150.00	153.00	3.00			
W004	KG2	167.00	168.00	1.00	0.	- 4	
W004	MA1	245.47	251.11	5.64			80
W004	MA2	251.11	252.79	1.68		*	
W004	MA3	255.27	257.38	2.11	245.47	252.79	7.32
W006	MA1	251.96	255.84	3.88			
W006	MA2	286.48	289.75	3.27	251.96	255.84	3.88
W008	KG1	258.32	259.11	0.79			
W008	KG2	262.82	263.25	0.43			
W008	MA1	282.79	285.54	2.75			
W008	MA2	287.75	290.70	2.95	282.79	290.70	7.91
W009	KG1	249.67	250.42	0.75			
W009	KG2	260.58	263.10	2.52			
W009	MA1	276.90	278.29	1.39			
W009	MA2	280.41	284.03	3.62			
W009	MA3	293.28	297.44	4.16	276.90	284.03	7.13

TABLE 1 COAL SEAM INTERSECTIONS AND WORKING SECTIONS
EPC 1118 WANDOAN



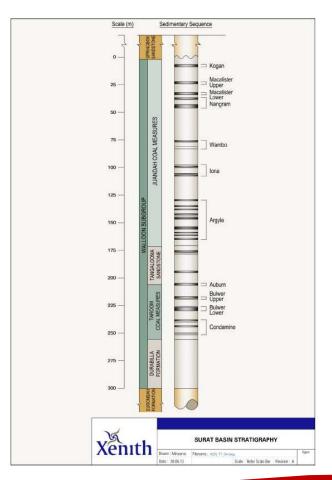
## **Coal Qualities**



**Cross Section Map NE-SW** 

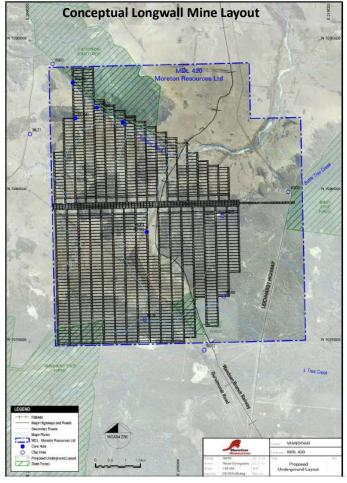
Seam	IM [%]	ASH [%]	VM [%]	FC [%]	RD [g/cc]	TS [%]	SE [Mj/Kg]
Macalister 1	10.1	30.9	31.6	27.3	1.53	0.29	18.39
Macalister 2	9.3	29.7	32.9	28.2	1.54	0.24	19.35
Macalister 3	8.3	36.5	30.6	24.6	1.61	0.22	17.27

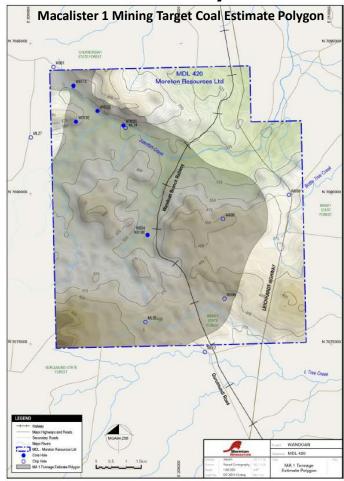
**Reported Raw Coal Qualities** 

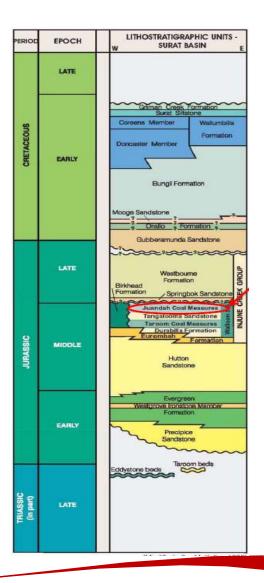




Depth, Access and Mineability









## Potential.....Forward Looking

- This Asset has significant potential for a major resource upgrade with further drilling.
- It is a well established mining region.
- Superior thermal coal quality compared to emerging basins in QLD
- It is amongst some significant assets being advanced by major companies
- The total Coal inventory is possible to be around the 1 Billion Tonnes in situ throughout the Asset



#### **COMPANY OVERVIEW**

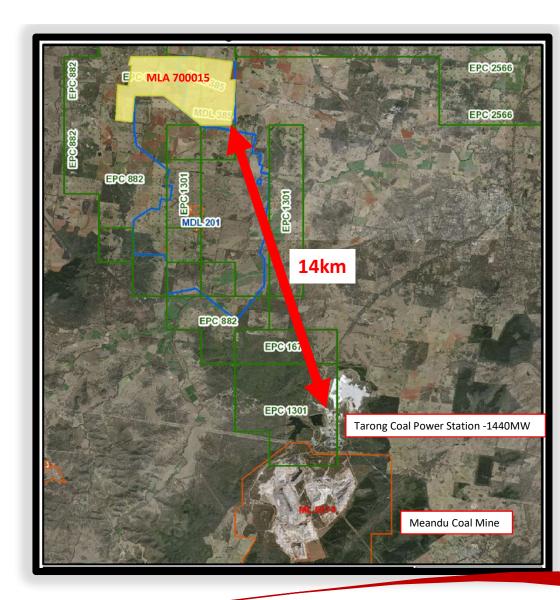


- MRV Tarong Basin Coal Pty Ltd
- 100% Fully Owned Subsidiary
- Two significant Coal Assets with Mining Lease under Application
- Significantly advanced studies and technical analysis for EIS, MLA and ancillary approval processes



#### Location

- Located 14 km north of Tarong Power Station (Stanwell)
- Outside Kingaroy Urban Restricted Area
- Underlying tenures of EPC 882 and MDL 385.
- Mining Lease Application 700015 lodged Oct 2016.
- Significant work already done on EIS.





#### Coal Inventories

		JORC 2	017		
Asset	Total Tonnes	Measured	Indicated	Inferred	Estimated Inventory (Including JORC)
MLA 700015	524.1Mt	134Mt	383.5Mt	6.6Mt	600Mt
		Estimated Inventory			
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#### Notes:

- 1. This region has over 660 historic dill holes and is well understood
- 2. Multiple parties since the early 2000's have identified potential mineable resources
- 3. The region is an established Coal region Meandu Coal mine feeds into the Tarong Coal Power Station
- 4. Prior JORC resources across the total area of EPC882 and MDL 385 have amassed ~ 1B tonnes, however mineable resources and reserve are being developed currently by Moreton Resources Limited



## **Coal Qualities**

#### DOMESTIC FEED - TARONG POWER STATION

Kingaroy Ash 28 % (ar)			AS RECEIVED	AIR DRIED	DRY	DRY ASH FREE
Moisture (%):	Total		9.0			
Proximate Analysis (%):	Inherent Moisture			4.5		
	Ash		28.0	29.6	31.0	
	Volatile Mat	tter	17.9	18.8	19.7	28.5
	Fixed Carbo	on	45.1	47.1	49.4	
Fuel Ratio:				2.5		
Total Sulphur (%):			0.30	0.32	0.33	0.48
Calorific Value:	Gross	(kcal/kg)	4930	5170	5410	7840
		(MJ/kg)	20.64	21.65	22.65	32.76
	Net	(kcal/kg)	4700			
	Gross-Net	(kcal/kg)	230			
Ultimate Analysis (%):	Carbon				54.5	79.0
	Hydrogen				3.9	5.7
	Nitrogen				0.9	1.3
	Oxygen by	difference			9.5	13.8
	Sulphur				0.19	0.28
Ash Analysis:	SiO <sub>2</sub>	67.8		K₂O	1.1	
(% in dry ash)	$Al_2O_3$	25.4		TiO <sub>2</sub>	1.4	
	Fe <sub>2</sub> O <sub>3</sub>	2.9		Mn <sub>3</sub> O <sub>4</sub>	0.04	
	CaO	0.4		SO <sub>3</sub>	0.2	
	MgO	0.68		P <sub>2</sub> O <sub>5</sub>	0.08	
	Na <sub>2</sub> O	0.05		Total	100	<del></del>
HGI:	51					
Ash Fusion Temperatures (°C):	•		Reducing			
. ,	Deformation	n	1557			
	Sphere (Softening)		1562			
	Hemisphere		1564			
	Flow		1565			

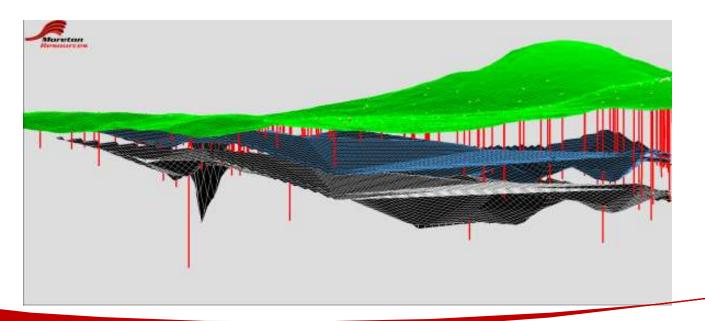
#### **EXPORT - Indicative**

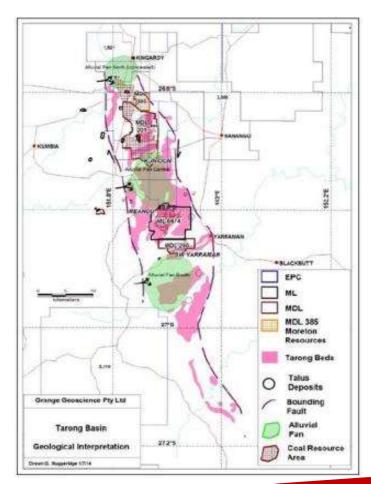
KINGAROY Ash 17%					
Moisture (%)	Total				
Proximate analysis (%)	Inherent Moisture	4.5			
	ASH	17			
	Volatile Matter	24			
	Fixed Carbon				
Fuel Ratio					
Total Sulphur (%)		0.19			
Calorific Value		6249 (ad)			



#### A Major Project based upon a Strong Asset

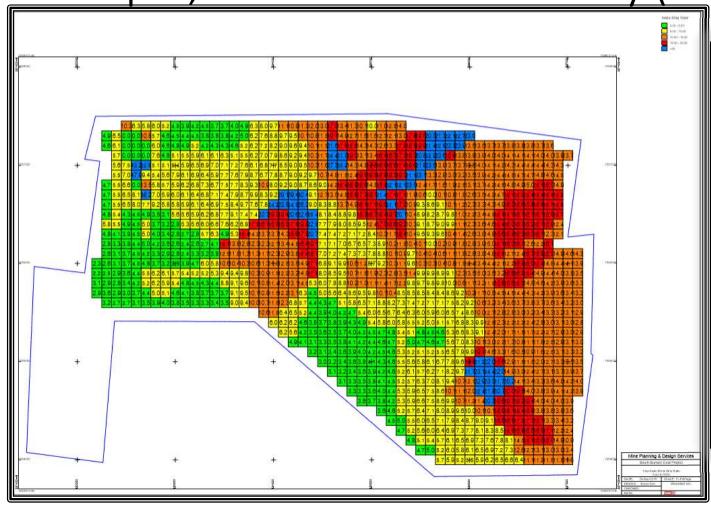
- Potential of 8-10Mt of Export Coal for the next 25 years
- Significant infrastructure uplift throughout the Wide Bay Burnett Region would be an outcome
- Workforce in the 400 600 range, in a skilled local and regional supply catchment, and a further 300+ in construction

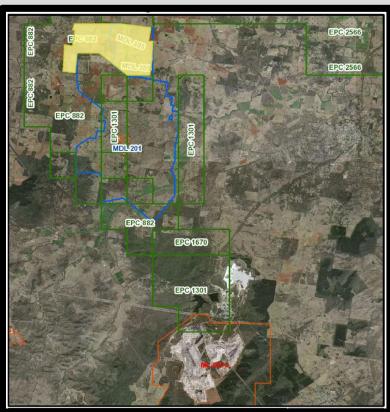






Depth, Access and Mine Ability (Strip Ratio 4.7:1)







#### **Infrastructure Optimization Underway**



- Rail and Port PFS completed 2015 and followed up with 2017-2018 Feasibility level studies
- Optimization in process for transport corridor and mechanism for Rail / Truck / Conveyor / Pipeline
- Route is 131 km to the North Coast Line near
   Theebine using abandoned railway
- Onto Port of Gladstone through commercial arrangements



## Potential.....Forward Looking

- This is a significant Asset that is well advanced through the approvals process, including EIS preparation approx 70% currently complete.
- MLA has been lodged since 2016.
- Technical Studies on Pit to Port solutions have been finalised to feasibility level.
- ROI and NPV are compelling even at conservative AUD rates.
- Potential International Markets and Domestic as both the World and Australia seek to move toward a cleaner Thermal Coal
- Global and Domestic competitive advantage based upon low Sulphur and total impurities



#### Summary

- Project is well advanced technically and benefits from the alignment of multiple aspects ie:
  - ✓ Large, shallow coal reserves, high quality coal and lowest cost quartile for production
  - ✓ Access to multiple markets via ability to control coal specifications
  - ✓ World demand for superior Thermal coal continues to grow with positive effect on price.
- Accordingly, an updated study of the Project's NPV is currently underway based on 8-10 Mtpa export with completion expected Q1 2020
- This asset is seen as a critical Company making asset for Moreton Resources Limited, and we are seeking to identify long term partners through off-take, sales and marketing, technical excellence and JV partnerships, to realise this highly perspective resource.





## **Thankyou**







**Part of the Moreton Resources Ltd Group of Companies** 



