Appendix 1

Summary reports for operating mines in Queensland

The following section presents detailed information for each of Queensland's significant operating mines. Mineral deposits are presented in alphabetic order. Each mineral deposit report contains information about the location, commodities, size classification, production, resources/reserves, mining styles, tenures, host rocks, mineral deposit models, mineralisation ages and other comments.

The resource information recorded does not duplicate resources documented as reserves or under any other resource classification. For example, if a published 'measured, indicated and inferred resource' includes the 'proved and probable ore reserves', these reserves are not recorded. However, if published reserves are in addition to the published resources they are recorded separately. Open file information sources such as company annual reports, quarterly reports and stock exchange announcements have been used, where available, to ensure current information is captured. Most resource and reserve figures are in accordance with the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC code), which is included as **Appendix** 9. Some older resource figures are not in accordance with the JORC code. Individual summary reports indicate whether or not the resource and reserve figures are JORC compliant. All sources used are referenced wherever possible.

A Summary of Major Mineral Resources, Mines and Projects, 2016

504532 ABLATIO QUARRY

OPERATING MINE

Descriptive Location: EAST OF AIR FORCE ROAD, SOUTH OF GOLD MINE RD, HELIDON.

1:100 000 sheet Number and Name: 9342 HELIDON

Grid Reference: Zone 56 411960 mE 6956693 mN Latitude -27.5105 Longitude 152.1086 Date Recorded: 4/December/2015

Other Names for Deposit / Mine

Ablatio Sandstone 1

Commodities Size Size Definition

BUILDING STONE VERY SMALL <100 000 tonnes BLST SANDSTONE SMALL 10 000 - 100 000 tonnes SST

Production Details

Period: 1-Jul-1997 to 30-Jun-2014

SANDSTONE 33,260.6 tonnes

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations Comments

OPEN CUT MINING

Tenure Type/Number SHARE Company Name/Surname

ML 50007 100.00% BONDZULIC BROS PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

CLARENCE-MORETON BASIN Helidon Sandstone / TRIASSIC to TRIASSIC

Deposit Model

GENERAL OREBODY MODEL SEDIMENT-HOSTED DEPOSIT

Mineralisation Age

ORE

Comments

Albatio Pty Ltd was set up by the Anglican Church to secure a source of sandstone for restoration of St Johns Cathedral in Brisbane. The company also produces sandstone for the domestic and overseas markets.

In 2013 Bondzulic Brothers bought off Ablatio quarry, but retained the name and website.

Web Page

http://www.ablstone.com.au/

A Summary of Major Mineral Resources, Mines and Projects, 2016

481011 **ALIMB**

OPERATING MINE

74 KM NORTH-WEST OF CHARTERS TOWERS, 110KM WEST OF TOWNSVILLE. Descriptive Location:

1:100 000 sheet Number and Name: 8058 HILLGROVE

Grid Reference: Zone 55 371621 mE 7831524 mN Latitude -19.6071 Longitude 145.7758 Date Recorded: 7/February/2017

Other Names for Deposit / Mine

Hillgrove Dolomite

Mitchell Surprise

The Pauleeson

Commodities **Size Definition** Size

EARTHY LIME / DOLOMITE (AGRICULTURAL) SMALL 10 000 - 100 000 tonnes ELIM

Production Details

Period: 1-Jul-1996 to 30-Jun-2016

EARTHY LIME / DOLOMITE (AGRICULTURAL) 116,018.4 tonnes

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Source Title **Published Reference ID** Year Author

Major Mining Related Events

Year Commenced Year Completed Comments

1993

1996 1999 Mined by bull dozer and loader from open cut. to

Mining Operations Comments

OPEN CUT MINING Previous opencutting has been rehabilitated.

Tenure Type/Number **SHARE** Company Name/Surname ML10043 100.00% KELMAS PTY. LTD. ALIMB PTY. LIMITED ML 10044 100.00%

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

NULLA BASALT PROVINCE Allingham Formation / LATE TERTIARY to LATE TERTIARY

Deposit Model

GENERAL OREBODY MODEL SEDIMENT-HOSTED DEPOSIT

DETAILED OREBODY MODEL DOLOMITE DEPOSIT

Mineralisation Age

PLIOCENE ORE

Comments

A Summary of Major Mineral Resources, Mines and Projects, 2016

38241 ANDOOM

OPERATING MINE

Descriptive Location: 18.6 KM NNW OF WEIPA AIRSTRIP.

1:100 000 sheet Number and Name: 7272 WEIPA

Grid Reference: Zone 54 590422 mE 8613766 mN Latitude -12.5384 Longitude 141.8323 Date Recorded: 4/December/2015

Other Names for Deposit / Mine

Andoom Bauxite Mine

Ne Weipa

Commodities Size Size Definition

BAUXITE LARGE >200 000 000 tonnes BX

Production Details

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID Year Author Title Source

BR 10183 2012 RIO TINTO PLC 2012 ANNUAL REPORT. RIO TINTO PLC, LONDON.

REPORTED TO AUSTRALIAN STOCK EXCHANGE, MARCH 2013; RIO TINTO LTD,

MELBOURNE

Major Mining Related Events

Year Commenced Year Completed Comments

2003 to 2004 As part of the NeWeipa Expansion project this resource was developed. A benefication plant

and new power station were constructed at the site.

Mining Operations Comments

SURFACE MINING METHODS

Tenure Type/Number SHARE Company Name/Surname
ML 7024 100.00% RTA WEIPA PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

KARUMBA BASIN

Deposit Model

GENERAL OREBODY MODEL RESIDUAL DEPOSIT
DETAILED OREBODY MODEL LATERITIC BAUXITE

Mineralisation Age

ORE CENOZOIC

Comments

In 2003, Comalco commenced its \$230 million NE Weipa expansion project and constructed a 9.5Mt per annum beneficiation plant and power station at Andoom. Construction was completed by the end of 2004 and the plant was commissioned.

Andoom ore is now mined and treated separately, increasing Comalco's capacity to meet customer requirements. Note that Andoom production and resources are reported in the figures for the Weipa Bauxite Mine.

Prior to 2004, bauxite ore from Andoom was blended with ore from the Weipa mine to produce the final bauxitic product.

Web Page

www.riotintoalcan.com

A Summary of Major Mineral Resources, Mines and Projects, 2016

36967 BAAL GAMMON

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 6.4KM WEST OF HERBERTON, 65KM SW OF CAIRNS.

1:100 000 sheet Number and Name: 7963 ATHERTON

Grid Reference: Zone 55 322254 mE 8077569 mN Latitude -17.3805 Longitude 145.3269 Date Recorded: 7/March/2016

Other Names for Deposit / Mine

Commodities **Size Definition** Size 1 000 - 100 000 tonnes SN TIN MEDIUM **COPPER SMALL** 500 - 50 000 tonnes CU **SILVER SMALL** 5 - 500 tonnes AG INDIUM LEAD VERY SMALL <1000 tonnes PB

VERY SMALL

Production Details

ZINC

Period: 1-Jan-1892 to 31-Dec-1949 6,201 tonnes HARD ROCK ORE (OR REEF)

CASSITERITE 88.4 tonnes

Published Reserves/Resources

BR 10071 Published in 2012 BAAL GAMMON

INDICATED MINERAL RESOURCE 1,979,000 tonnes Ore @ 33.00 g/t SILVER FOR 65,307 Kilograms SILVER 0.80 % COPPER FOR 15,832 Tonnes COPPER

Comments/Cut Off Factor: 0.2% Cu cutoff.

note that the tin and indium grades were reported in earlier resource statement

BR 10071 Published in 2012 BAAL GAMMON

INFERRED MINERAL RESOURCE 31,000 tonnes Ore @ 18.00 g/t SILVER FOR 551 Kilograms SILVER 0.60 % COPPER FOR 183 Tonnes COPPER

Comments/Cut Off Factor: 0.2% Cu cutoff

note that tin and indium grades were stated in earlier resource calculations

BR 10071 Published in 2012

BAAL GAMMON

PROBABLE ORE RESERVE 317,000 tonnes Ore @

90.00 g/t SILVER FOR 28,530 Kilograms SILVER
2.80 % COPPER FOR 8,876 Tonnes COPPER

Resource figures listed above are JORC compliant.

Published Reference ID Year Author Title Source

BR 10071 2012 KAGARA MINING OPPORTUNITY TO ACQUIRE REPORT TO THE AUSTRALIAN KAGARA LIMITED'S NORTH SECURITIES EXCHANGE. 14 QUEENSLAND ASSETS SEPTEMBER 2012 KAGARA

MINING, PERTH.

<200 tonnes ZN

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations Comments

OPEN CUT MINING

UNDERGROUND MINING METHODS

ADITS

Tenure Type/Number SHARE Company Name/Surname

ML 20388 100.00% BAAL GAMMON COPPER PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

HODGKINSON PROVINCE Hodgkinson Formation / EARLY DEVONIAN to LATE DEVONIAN

Deposit Model

GENERAL OREBODY MODEL INTRUSIVE-RELATED (PORPHYRY-RELATED)

DETAILED OREBODY MODEL TIN VEINS (CORNISH-TYPE)

Mineralisation Age

ORE LATE CARBONIFEROUS

A Summary of Major Mineral Resources, Mines and Projects, 2016

Comments

In 2006, North Queensland Metals Ltd commenced a feasibility study to re-evaluate the Baal Gammon deposit. A JORC compliant resource estimate was calculated and baseline environmental studies and preliminary evaluation work have commenced.

In July 2007, North Queensland Metals announced a probable ore reserve for the deposit. In May 2008, the company announced that the project will proceed to development.

Drilling results announced in April 2007 included 4.05m at 8.5% Cu, 1.18% Sn, 224g/t Ag and 642g/t In from 36.85m, 7.4m at 3.36% Cu, 1,24% Sn, 97g/t Ag and 264g/t In from 39m, and 5m at 5.16% Cu, 0.21% Sn, 128g/t Ag and 337g/t In from 33m.

The mine is expected to process 500 000t over a seven year mine life to produce ~20 000t of Cu-Sn-Ag-In concentrate per year. A review of the mine design in the June 2009 quarter indicated that a smaller higher grade pit is feasible.

February 2011: Monto Minerals purchased the Baal Gammon deposit as part of a larger suite of tin prospective ground in North Oueensland.

In 2012 Monto Mins reported a larger than anticipated high grade zone identified within the Baal Gammon resource - 829kT @ 2.5% Cu, 96g/t Ag, 0.4% Sn & 96g/t In (BR9802). These results are based on Kagara 28 hole drilling programme concluded 30 Oct 2011.

In September 2011 Kagara commenced open pit mining and are processing Baal Gammon ore at their nearby 500,000tpa Mt Garnet copper processing facility. Under the terms of BG MRA Kagara will pay the NSR to Monto within 5 days of receipt of payment from the Sept 2011 (cont.) product (Concentrate) buyer. Kagara at present generally sell concentrate from Mt Garnet facility on a monthly basis. (BR9802). Kagara is responsible for all costs with respect to Baal Gammon mine development and operations.

In May 2011, Kagara Ltd announced that it had formed a strategic alliance with Monto MInerals to mine Baal Gammon copper ore, with the ore to be treated at Kagara's Mount Garnet plant. In 2012 a resource update was reported to ASX (BR9802)

Mine development is to start immediately following approvals and ore processing is targeted to start by October 2011. Kagara will investigate the potential to construct a tin extraction circuit at Mount Garnet.

This mine is in the United North Australia group of mines. The orebody is adjacent to a stanniferous, quartz porphyry intrusive, locally rich in tourmaline

In January 2012 Monto Minerals reported a revised combined (indicated and inferred) resource of 2.8 Mt @ 0.966% Cu, 0.199% Sn, 18 g/t Ag and 39 g/t In. Later resources no longer reported tin and indium.

Web Page

www.montominerals.com, www.spmining.com.au/

A Summary of Major Mineral Resources, Mines and Projects, 2016

478932 BALCOOMA

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 33 KM NORTH-WEST OF GREENVALE, 120KM SSW OF MOUNT GARNET, 215KM NW OF TOWNSVILLE.

1:100 000 sheet Number and Name: 7860 CONJUBOY

Grid Reference: Zone 55 258920 mE 7922870 mN Latitude -18.7718 Longitude 144.7130 Date Recorded: 30/January/2017

Other Names for Deposit / Mine

Golden Creek

Boyds 5

Monte Carlo

I-35

Scots Find

West Boyds Creek Prospect

Dry River

Commodities	Size	Size Definition
COPPER	MEDIUM	50 000 - 250 000 tonnes CU
ZINC	SMALL	200 - 200 000 tonnes ZN
LEAD	SMALL	1000 - 100 000 tonnes PB
GOLD	SMALL	0.5 - 5 tonnes AU
SILVER	SMALL	5 - 500 tonnes AG

Production Details

Period:	1-Jul-2010	to	30-Jun-2016		
COPPE	R			METAL	38,454.0 tonnes
GOLD				METAL	255.7 kilograms
SILVE	₹				40,834.2 kilograms
LEAD				METAL	7,799.0 tonnes
ZINC				METAL	106,524.0 tonnes

A Summary of Major Mineral Resources, Mines and Projects, 2016

Published	Reserves/	Resources
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BR 10071 Published in 2012

BALCOMA UNDERGROUND MAIN CU

INFERRED MINERAL RESOURCE 53,000 tonnes Ore @

0.70 % COPPER FOR 371 Tonnes COPPER
4.00 g/t SILVER FOR 212 Kilograms SILVER

BR 10071 Published in 2012

BALCOMA UNDERGROUND MAIN CU

MEASURED MINERAL RESOURCE 235,000 tonnes Ore @

2.90 % COPPER FOR 6,815 Tonnes COPPER 13.00 g/t SILVER FOR 3,055 Kilograms SILVER

BR 10071 Published in 2012

BALCOOMA - POLYMETALLIC

INDICATED MINERAL RESOURCE 568,000 tonnes Ore @.

 5.60 % ZINC
 FOR
 31,808 Tonnes ZINC

 33.00 g/t SILVER
 FOR
 18,744 Kilograms SILVER

 1.90 % LEAD
 FOR
 10,792 Tonnes LEAD

 1.20 % COPPER
 FOR
 6,816 Tonnes COPPER

 0.30 g/t GOLD
 FOR
 170 Kilograms GOLD

BR 10071 Published in 2012

BALCOOMA - POLYMETALLIC

INFERRED MINERAL RESOURCE 575,000 tonnes Ore @

 3.10 % ZINC
 FOR
 17,825 Tonnes ZINC

 24.00 g/t SILVER
 FOR
 13,800 Kilograms SILVER

 1.50 % COPPER
 FOR
 8,625 Tonnes COPPER

 1.20 % LEAD
 FOR
 6,900 Tonnes LEAD

 0.30 g/t GOLD
 FOR
 172 Kilograms GOLD

BR 10071 Published in 2012

BALCOOMA - POLYMETALLIC

MEASURED MINERAL RESOURCE 389,000 tonnes Ore @

 5.70 % ZINC
 FOR
 22,173 Tonnes ZINC

 26.00 g/t SILVER
 FOR
 10,114 Kilograms SILVER

 1.90 % LEAD
 FOR
 7,391 Tonnes LEAD

 1.10 % COPPER
 FOR
 4,279 Tonnes COPPER

BR 10071 Published in 2012

BALCOOMA - POLYMETALLIC

PROBABLE ORE RESERVE 27,000 tonnes Ore @

 9.20 % ZINC
 FOR
 2,484 Tonnes ZINC

 5.30 % LEAD
 FOR
 1,431 Tonnes LEAD

 35.00 g/t SILVER
 FOR
 945 Kilograms SILVER

 0.60 % COPPER
 FOR
 162 Tonnes COPPER

 0.00 g/t GOLD
 FOR
 162 Tonnes COPPER

0.00 g/t GOL

BR 10071 Published in 2012

BALCOOMA UNDERGROUND CU

PROBABLE ORE RESERVE 130,000 tonnes Ore @

1.60 % COPPERFOR2,080 Tonnes COPPER8.00 g/t SILVERFOR1,040 Kilograms SILVER0.02 g/t GOLDFOR3 Kilograms GOLD

BR 10071 Published in 2012

BALCOOMA UNDERGROUND CU

 $\it PROVED \ ORE \ RESERVE \ \ 64{,}000 \ tonnes \ Ore \ @$

2.50 % COPPER FOR 1,600 Tonnes COPPER
13.00 g/t SILVER FOR 832 Kilograms SILVER
0.05 g/t GOLD FOR 14 Kilograms GOLD

BR 10071 Published in 2012

BALCOOMA UPPER LENS CU

INDICATED MINERAL RESOURCE 124,000 tonnes Ore @

1.30 % COPPER FOR 9,100 Tonnes COPPER 5.00 g/t SILVER FOR 620 Kilograms SILVER

A Summary of Major Mineral Resources, Mines and Projects, 2016

Resource figures listed above are JORC compliant

Title Source Published Reference ID Vear Author

BR 10071 2012 KAGARA MINING OPPORTUNITY TO ACQUIRE REPORT TO THE AUSTRALIAN KAGARA LIMITED'S NORTH SECURITIES EXCHANGE. 14

QUEENSLAND ASSETS SEPTEMBER 2012 KAGARA MINING, PERTH.

Major Mining Related Events

Year Commenced Year Completed

Mining activities commenced with prestrip 2004 2005 to

in December 2004.

Operating Mine Life: 2005 to 2008 Kagara Zinc Ltd commenced open cut mining in 2005/06.

Mining Operations OPEN CUT MINING Open cut to base of oxidation with decline planned from pit floor.

Pit wall stability problems due to host rock schistosity causing

slope failures.

Comments

Tenure Type/Number SHARE Company Name/Surname 100.00% MI. 1393 SNOW PEAK MINING PTY LTD

ML30156 100.00% SNOW PEAK MINING PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

THALANGA PROVINCE Balcooma Metavolcanic Group / LATE CAMBRIAN to EARLY

ORDOVICIAN

Deposit Model

GENERAL OREBODY MODEL VOLCANIC HOSTED MASSIVE SULPHIDE DETAILED OREBODY MODEL VMS - KUROKO STYLE (NORANDA, FELSIC TO

INTERMED VMS TYPE)

Mineralisation Age

LATE CAMBRIAN to EARLY ORDOVICIAN ORE

Comments

Carpentaria Exploration Company Pty Ltd identified the Balcooma gossans in 1978. In 1979, the first drillhole intersected massive sulphides.

The Balcooma deposit consists of four separate stratigraphic units containing massive sulphide mineralisation with three types of massive mineralisation recorded - magnetite, pyrite-chalcopyrite and sphalerite-galena-pyrite.

In January 2009, Kagara announced that it had suspended development and mining at the Balcooma polymetallic underground mine. The underground copper deposit is unaffected.

In March 2006, Kagara Zinc Ltd purchased the Thalanga treatment plant, which will be used to treat ore from Balcooma from around September 2006. At July 2006, total reserves and resources at Balcooma were 3.965Mt at 3.5% Cu, 15g/t Ag and 0.36g/t Au.

Open cut mining commenced at Balcooma in 2005/06. The high-grade supergene ore was processed through the new copper circuit at Mount Garnet. Mining changed to the low-grade ore of the Balcooma North orebody in the September 2006 quarter.

Production in the September 2006 quarter totalled 79,408t at 2.2% Cu and 13,646t at 2.41g/t Au. Separate production figures have not been recorded for the mine

Development declines for the Balcooma polymetallic orebody and the Balcooma copper deposits encounted development ore and stoping of the copper deposit was to commence in the September 2009 quarter.

The Balcooma open pit will continue to produce copper ore until September 2009, after which all copper ore production will be mined from underground. The decline advanced to 1510m from the portal in the March 2009 quarter.

In 2007/08, ore from Balcooma was treated at the Mount Garnet and Thalanga processing plants.

Snow Peak Mining under Consolidated Tin Mines management re-commenced mining at Balcooma in December 2013 and processing of the copper ore and polymetallic ore at the Mount Garnet plant re-commenced in March 2014 following the re-commissioning of the Mount Garnet processing plant in February 2014. The ore was trucked to Townsville for export. The mine transitioned to care and maintenance in early September 2015

Between 2007 and 2010 Balcooma open cut produced 265107 t of copper concentrate, 35735 t of lead concentrate, and 243131 zinc concentrate for 64795 t of Cu Metal, 603.6kg Au, 60402 kg Ag, 22261 t of lead metal and 123049 t of zinc metal (BR6187).

Web Page

www.kagara.com.au

A Summary of Major Mineral Resources, Mines and Projects, 2016

486766 BEACHMERE SANDS

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 2KM N OF BEACHMERE AND 50KM NORTH OF BRISBANE.

1:100 000 sheet Number and Name: 9543 BRISBANE

Grid Reference: Zone 56 506080 mE 7002960 mN Latitude -27.0956 Longitude 153.0613 Date Recorded: 17/February/2017

Other Names for Deposit / Mine

Commodities Size Size Definition

SILICA SAND

LARGE

>2 500 000 tonnes SIS

FOUNDRY SAND

VERY SMALL

<1 000 tonnes SF

Production Details

Period: 1-Jun-2013 to 30-Jun-2016

SILICA SAND 27,564.2 tonnes FOUNDRY SAND 800.0 tonnes

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations

Tenure Type/Number SHARE Company Name/Surname
ML 50156 100.00% PACIFIC SILICA PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

MODERN COASTAL DEPOSITS

Deposit Model

GENERAL OREBODY MODEL DUNE DEPOSIT

DETAILED OREBODY MODEL DUNE DEPOSIT SILICA SAND

Mineralisation Age

ORE CENOZOIC

Comments

A Summary of Major Mineral Resources, Mines and Projects, 2016

610262 BEAUDESERT QUARRY

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 14.6 KM WSW OF BEAUDESERT

1:100 000 sheet Number and Name: 9442 IPSWICH

Grid Reference: Zone 56 486187 mE 6908689 mN Latitude -27.9467 Longitude 152.8596 Date Recorded: 9/February/2017

Other Names for Deposit / Mine

Gosford

Commodities Size Size Definition

SANDSTONE SMALL 10 000 - 100 000 tonnes SST

Production Details

Period: 1-Jul-2001 to 30-Jun-2016

SANDSTONE 31,043.3 tonnes

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations

Tenure Type/Number SHARE Company Name/Surname

ML 50171 100.00% GOSFORD QUARRIES (PROPERTIES) PTY LIMITED

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

CLARENCE-MORETON BASIN Woogaroo Subgroup / LATE TRIASSIC to EARLY JURASSIC

Deposit Model

Mineralisation Age

ORE

Comments

A Summary of Major Mineral Resources, Mines and Projects, 2016

518225 **BEDROCK SILICA**

OPERATING MINE

Descriptive Location: 45KM W OF TOWNSVILLE, ALONG HARVEYS RANGE ROAD.

1:100 000 sheet Number and Name: 8159 ROLLINGSTONE

Grid Reference: Zone 55 434263 mE 7852830 mN Latitude -19.4177 Longitude 146.3739 Date Recorded: 7/February/2017

Other Names for Deposit / Mine

Commodities **Size Definition**

Size SMALL SILICA SAND 1 000 - 1 000 000 tonnes SIS

Production Details

Period: 1-Jul-2000 30-Jun-2016 to

SILICA SAND 40,407.4 tonnes

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Source Published Reference ID Title Year Author

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations Comments

OPEN CUT MINING

SURFACE MINING METHODS

Tenure Type/Number Company Name/Surname **SHARE** ML10241 100.00% BEDROCK LANDSCAPES SUPPLIES (QLD) PTY LTD

ML10245 100.00% BEDROCK LANDSCAPES SUPPLIES (QLD) PTY LTD

Host Rock/Cover Sequences

Formation Name/Age Structural Unit

KENNEDY IGNEOUS ASSOCIATION Speed Creek Granodiorite/2 / EARLY PERMIAN to EARLY PERMIAN

Deposit Model

GENERAL OREBODY MODEL RESIDUAL DEPOSIT

Mineralisation Age

PALAEOZOIC ORE Silica sand.

Comments

A Summary of Major Mineral Resources, Mines and Projects, 2016

38297 BIANCA

OPERATING MINE

Descriptive Location: 13.5KM NW OF ALMADEN. 1:100 000 sheet Number and Name: 7863 CHILLAGOE

Grid Reference: Zone 55 242214 mE 8089997 mN Latitude -17.2605 Longitude 144.5754 Date Recorded: 4/December/2015

Other Names for Deposit / Mine

Commodities Size Definition

MARBLE SMALL 10 000 - 100 000 tonnes MARB

BUILDING STONE VERY SMALL <100 000 tonnes BLST

Production Details

Period: 1-Jul-2001 to 30-Jun-2015

MARBLE 12,269.9 tonnes

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations Comments

OPEN CUT MINING

UNDERGROUND MINING METHODS

PITS

DREDGING

SURFACE MINING METHODS

Tenure Type/Number SHARE Company Name/Surname

ML 5184 50.00% S & A PTY. LTD.

ML 5184 50.00% D & G SPRALJA PTY LTD

MIL 5104 50.0070 D & G 51 KALJA11

Host Rock/Cover Sequences
Structural Unit Formation Name/Age

HODGKINSON PROVINCE Chillagoe Formation / EARLY SILURIAN to EARLY DEVONIAN

Deposit Model

GENERAL OREBODY MODEL INTRUSIVE-RELATED (PORPHYRY-RELATED)

DETAILED OREBODY MODEL MARBLE DEPOSIT

Mineralisation Age

ORE CARBONIFEROUS

Comments

A Summary of Major Mineral Resources, Mines and Projects, 2016

507793 BORAL BRICKS IPSWICH

OPERATING MINE

Descriptive Location: 7.5KM EAST OF IPSWICH. 1:100 000 sheet Number and Name: 9442 IPSWICH

Grid Reference: Zone 56 483642 mE 6943629 mN Latitude -27.6312 Longitude 152.8342 Date Recorded: 4/December/2015

Other Names for Deposit / Mine

Commodities Size Definition

BRICK CLAY MEDIUM 200 000 - 20 000 000 tonnes BKCY

Production Details

Period: 1-Jul-1996 to 30-Jun-2015

BRICK CLAY 2,655,561.0 tonnes

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations Comments

OPEN CUT MINING

Tenure Type/Number SHARE Company Name/Surname ML 4583 100.00% BORAL BRICKS PTY LTD ML4622 100.00% BORAL BRICKS PTY LTD ML50116 100.00% BORAL BRICKS PTY LTD ML 50117 100.00% BORAL BRICKS PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

CLARENCE-MORETON BASIN Raceview Formation / RHAETIAN to RHAETIAN

Deposit Model

GENERAL OREBODY MODEL SEDIMENT-HOSTED DEPOSIT

DETAILED OREBODY MODEL SEDIMENTARY CLAY DEPOSITS

Mineralisation Age

ORE TRIASSIC to JURASSIC

Comments

Web Page

www.boral.com.au

A Summary of Major Mineral Resources, Mines and Projects, 2016

507506 BORAL DARRA

OPERATING MINE

Descriptive Location: ADJACENT TO IPSWICH MOTORWAY DARRA.

1:100 000 sheet Number and Name: 9442 IPSWICH

Grid Reference: Zone 56 496189 mE 6950812 mN Latitude -27.5664 Longitude 152.9614 Date Recorded: 19/May/2015

Other Names for Deposit / Mine

Commodities Size Size Definition

BRICK CLAY SMALL 2 000 - 200 000 tonnes BKCY

Production Details

Period: 1-Jul-1999 to 30-Jun-2010

BRICK CLAY 71,144.0 tonnes

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations Comments

OPEN CUT MINING

 Tenure Type/Number
 SHARE
 Company Name/Surname

 ML
 1100
 100,00%
 BORAL BRICKS PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

OXLEY BASIN Darra Formation / LATE TERTIARY to LATE TERTIARY

Deposit Model

GENERAL OREBODY MODEL SEDIMENT-HOSTED DEPOSIT

DETAILED OREBODY MODEL SEDIMENTARY CLAY DEPOSITS

Mineralisation Age

ORE TERTIARY

Comments

Web Page

www.boral.com.au

A Summary of Major Mineral Resources, Mines and Projects, 2016

479602 BOWEN SALTWORKS

OPERATING MINE

Descriptive Location: ADJACENT TO BOWEN TOWNSHIP, 160KM SE TOWNSVILLE.

1:100 000 sheet Number and Name: 8557 BOWEN

Grid Reference: Zone 55 627875 mE 7785651 mN Latitude -20.0216 Longitude 148.2225 Date Recorded: 4/December/2015

Other Names for Deposit / Mine

Cheetham Salt Bowen

Commodities Size Size Definition

BRINE SALT

Production Details

Period: 1-Jul-1997 to 30-Jun-2000

BRINE SALT 20,000.0 tonnes

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

1925 The Bowen salt works began in 1925 and were originally operated by the Bowen Salt

Company. In 1981 Cheetham Salt Ltd purchased the operation from Central Queensland Salt.

Mining Operations Comments

SURFACE MINING METHODS Series of evaporative ponds.

Tenure Type/Number SHARE Company Name/Surname

Currently untenured mineral deposit

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

Deposit Model

Mineralisation Age

Comments

Sea water is pumped into a series of evaporative ponds, increasing in salinity as it is moved through the pond system. When the salinity is highest, the water is moved to the crystallisation pond where salt crystals form and are harvested.

Once harvestered the salt is washed in a concentrated brine to remove the impurities. After about 1 year the salt is crushed to the correct grain size. The plant is classed as a 15000t field, but has harvested up to 29000t per year.

In 2012 RIDLEY stated that they are investigating feasibility of sale of Bowen site for redevelopment (BR9806, p.17)

Web Page

www.cheethamsalt.com.au; www.ridley.com.au

A Summary of Major Mineral Resources, Mines and Projects, 2016

507510 BRITTAINS

OPERATING MINE

Descriptive Location: 2.8KM W OF STRATHPINE, ON NORTHERN OUTSKIRTS OF BRISBANE.

1:100 000 sheet Number and Name: 9443 CABOOLTURE

Grid Reference: Zone 56 496076 mE 6978377 mN Latitude -27.3176 Longitude 152.9603 Date Recorded: 4/December/2015

Other Names for Deposit / Mine

Commodities Size Definition

BRICK CLAY MEDIUM 200 000 - 20 000 000 tonnes BKCY

Production Details

Period: 1-Jul-1996 to 30-Jun-2014

BRICK CLAY 1,147,079.0 tonnes

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations Comments

OPEN CUT MINING

Tenure Type/NumberSHARECompany Name/SurnameML1106100.00%BORAL BRICKS PTY LTDML1171100.00%BORAL BRICKS PTY LTDML50183100.00%BORAL BRICKS PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

PETRIE BASIN Petrie Formation / PALEOCENE to EOCENE

Deposit Model

GENERAL OREBODY MODEL SEDIMENT-HOSTED DEPOSIT
DETAILED OREBODY MODEL SEDIMENTARY CLAY DEPOSITS

Mineralisation Age

ORE EOCENE to OLIGOCENE

Comments

Web Page

www.boral.com.au

A Summary of Major Mineral Resources, Mines and Projects, 2016

489413	BROLGA

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 16 KM NORTH-WEST OF CANOONA, CENTRAL QUEENSLAND.

1:100 000 sheet Number and Name: 8951 RIDGELANDS

Grid Reference: Zone 56 224979 mE 7450625 mN Latitude -23.0300 Longitude 150.3165 Date Recorded: 14/February/2017

Other Names for Deposit / Mine

Brolga 1 Brolga 2

Commodities	Size	Size Definition	
NICKEL	SMALL	250 - 25 000 tonnes NI	
COBALT	SMALL	10 - 1 000 tonnes CO	

Production Details

etans				
1-Jul-1969	to	30-Jun-1970	20,727 tonnes HARD ROCK ORE (OR REEF)	
L			8,382.0 tonnes	
1-Jul-1993	to	30-Jun-1994	200,405 tonnes HARD ROCK ORE (OR REEF)	
T			275.0 tonnes	
L			3,141.0 tonnes	
1-Jul-1994	to	30-Jun-1995	222,249 tonnes HARD ROCK ORE (OR REEF)	
LТ			333.0 tonnes	
L			3,707.0 tonnes	
1-Jul-1995	to	30-Jun-1996	2,897 tonnes HARD ROCK ORE (OR REEF)	
T			5.0 tonnes	
L			41.0 tonnes	
1-Jul-2013	to	30-Jun-2016	332,172 tonnes HARD ROCK ORE (OR REEF)	
L			4,909.6 tonnes	
T			247.7 tonnes	
	1-Jul-1969 L 1-Jul-1993 T L 1-Jul-1994 T L 1-Jul-1995 T L	1-Jul-1969 to L 1-Jul-1993 to T L 1-Jul-1994 to T L 1-Jul-1995 to T L 1-Jul-1995 to T L	1-Jul-1969 to 30-Jun-1970 L 1-Jul-1993 to 30-Jun-1994 .T L 1-Jul-1994 to 30-Jun-1995 .T L 1-Jul-1995 to 30-Jun-1996 .T L 1-Jul-2013 to 30-Jun-2016 L	

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference	ID Year	Author	Title	Source		
Major Mining Related Events						
Year Commenced	Year Comp	eted	Comments			
1969 to	197	0	Deposit first worked but mining ceased due to metallurgical di	ficulties.		
1973 to	o 197	3	Deposit re-evaluated but found to be uneconomic.			
1992 to	o 199		Deposit mined to supplement ore imported for the Yabulu refire the Greenvale mine.	nery as a result of the closure of		
2012			Deposit re-opened to supplement imported ore for Palmer Nicl Townsville	kel & Cobalt Refinery in		

Mining Operations	Comments
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OPEN CUT MINING

Tenure Typ	oe/Number	SHARE	Company Name/Surname
ML	2728	100.00%	STRATEGIC MINERALS CORPORATION N.L.
ML	5866	80.00%	QNI RESOURCES PTY LTD
ML	5866	20.00%	QNI METALS PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

MARLBOROUGH PROVINCE Princhester Serpentinite / NEOPROTEROZOIC to EARLY PALAEOZOIC

Deposit Model

GENERAL OREBODY MODEL RESIDUAL DEPOSIT
DETAILED OREBODY MODEL LATERITIC NICKEL

Mineralisation Age

ORE CENOZOIC

A Summary of Major Mineral Resources, Mines and Projects, 2016

Comments

In 2012 QNI secured approval to mine 400000t annually and commenced mining in Nov 2012 with and estimated mine life of up to 12 years. In 2013 an Environmental Management Plan was prepared to progress a Stage 2 development of the site, to reflect the proposal to increase the scale of mining operations. Currently ore is hauled by B-double trucks to the nearby Glen Geddes rail siding and stockpiled, prior to transport to the Palmer Nickel and Cobalt Refinery in Townsville (BR10252).

The Brolga - Stage 2 development involves a significant expansion of mining activities at the site to increase nickel ore production to (maximum) 900000 TPA (Stage 1 was 400000 TPA (BR10252).

QNI Resources (Mr Michael Fitzsimmons) clarified in telephone conversation 24/11/2015 that they export to quite a few countries but mostly to Korea, United States and Japan. They are unable to provide a detailed breakdown because they also import (2015 cont.) product from other countries for processing with the product extracted from their operating mine (ML5866).

A Summary of Major Mineral Resources, Mines and Projects, 2016

489464 **BRY LEASE**

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 82KM SW OF OPALTON, ADJACENT TO MAYNE RIVER.

1:100 000 sheet Number and Name: 7350 TONKORO

Grid Reference: Zone 54 610927 mE 7390288 mN Latitude -23.5940 Longitude 142.0872 Date Recorded: 7/February/2017

Other Names for Deposit / Mine

Commodities **Size Definition**

Size SMALL **GYPSUM** 5 000 - 5 000 000 tonnes GYP

Production Details

Period: 1-Jul-1997 30-Jun-2016 to

GYPSUM 75,258.1 tonnes

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Source Published Reference ID Title Year Author

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations Comments

OPEN CUT MINING

SHARE Tenure Type/Number Company Name/Surname Christian Name ML 95209 100.00% CONNOLLY Brian Malcolm

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

EROMANGA BASIN Winton Formation / LATE CRETACEOUS to LATE CRETACEOUS

Deposit Model

GENERAL OREBODY MODEL RESIDUAL DEPOSIT EVAPORITE DEPOSIT DETAILED OREBODY MODEL

Mineralisation Age

ORE **CRETACEOUS**

Comments

A Summary of Major Mineral Resources, Mines and Projects, 2016

507515 BUCHANAN

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 24.2KM SSE OF HOME HILL, IN THE HEADWATERS OF WANGARATTA CREEK.

1:100 000 sheet Number and Name: 8358 AYR

Grid Reference: Zone 55 551070 mE 7802854 mN Latitude -19.8697 Longitude 147.4878 Date Recorded: 9/February/2017

Other Names for Deposit / Mine

Inkerman

Commodities Size Size Definition

EARTHY LIME / DOLOMITE (AGRICULTURAL) SMALL 10 000 - 100 000 tonnes ELIM

Production Details

Period: 1-Jan-1972 to 31-Dec-1978

EARTHY LIME / DOLOMITE (AGRICULTURAL) 14,164.0 tonnes

Period: 1-Jul-1997 to 30-Jun-2016

EARTHY LIME / DOLOMITE (AGRICULTURAL) 65,703.2 tonnes

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

1972 to 1978 Mined by the Inkerman Lime Company.

Mining Operations Comments

OPEN CUT MINING Open cut is "T-shaped".

Tenure Type	e/Number	SHARE	Company Name/Surname	Christian Name
ML	1044	33.00%	TAMA	GIUSEPPE
ML	1044	33.00%	TAMA	ROSETTA
ML	1044	33.00%	TAMA	ROBERT ANDREW
ML	1045	33.00%	TAMA	GIUSEPPE
ML	1045	33.00%	TAMA	ROSETTA
ML	1045	33.00%	TAMA	ROBERT ANDREW

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

KENNEDY IGNEOUS ASSOCIATION Cud-BUR / CARBONIFEROUS to CARBONIFEROUS

Deposit Model

GENERAL OREBODY MODEL RESIDUAL DEPOSIT

DETAILED OREBODY MODEL ENRICHED LIME DEPOSIT

Mineralisation Age

ORE CARBONIFEROUS to CENOZOIC

Comments

A Summary of Major Mineral Resources, Mines and Projects, 2016

481276 **CALCIUM NORTH**

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 4.5KM WNW OF CALCIUM, 40KM S OF TOWNSVILLE

1:100 000 sheet Number and Name: 8258 MINGELA

Grid Reference: Zone 55 479046 mE 7826532 mN Latitude -19.6563 Longitude 146.8001 16/February/2017 Date Recorded:

Other Names for Deposit / Mine

Ryan Lime

Commodities	Size	Size Definition	
LIMESTONE	SMALL	100 000 - 2 000 000 tonnes LST	
Production Details			

Period: 1-Jan-1926 31-Dec-1969

LIMESTONE OTHER 35,000.0 tonnes

1-Jan-1969 Period: 31-Dec-1994 to

OTHER LIMESTONE 366,000.0 tonnes

1-Jun-2006 Period:

30-Jun-2016

LIME 168,040.6 tonnes LIMESTONE OTHER 474.7 tonnes

Published Reserves/Resources

CALCIUM NORTH

INFERRED MINERAL RESOURCE 1,000,000 tonnes Ore @ 1,000,000 Tonnes LIMESTONE

Letter from Greg Cochrane, David Mitchell Ltd (28/06/1999) estimated resources as 1 to 2Mt.

Resource figures listed above are NOT JORC compliant.

Resour	cc figures fist	cu above are	NOT JOICE	compnant.	
Published Reference ID Year Author		r Author	Title	Source	
Major Mir	ning Related	d Events			
Year Commenced Year Completed		oleted	Comments		
1926 to 1994		94	Ryan Lime Company commenced mining opera	ations in 1926 continuing until 1969 when	
				Calcium Products P/L took over and continued	mining until 1994.
199	4 to	19	95	David Mitchell (North Qld) Pty Ltd acquired the leases in 1994. Mining ceased in 1995 and the kilns burned limestone trucked from the Christmas Creek deposit near Greenvale.	
200	2006 Mining recommenced.				
Mining Ope	erations			Comments	
OPEN	CUT MINII	NG			
Tenure Type/Number SHARE		SHARE	Company Name/Surname		
ML	5978		100.00%	HY-TEC INDUSTRIES (QUEENSLAND)	PTY LTD
MI	MI 5984 100 00% HV-TEC INDUSTRIES (OLIFENSI AND) PTV I TD		PTVITD		

ienure Type/Number		be/Number	SHAKE	Company Name/Surname	
	ML	5978	100.00%	HY-TEC INDUSTRIES (QUEENSLAND) PTY LTD	
	ML	5984	100.00%	HY-TEC INDUSTRIES (QUEENSLAND) PTY LTD	
	ML	10151	100.00%	HY-TEC INDUSTRIES (QUEENSLAND) PTY LTD	
_					

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

BURDEKIN BASIN Burdekin Formation / MIDDLE DEVONIAN to MIDDLE DEVONIAN

Deposit Model

GENERAL OREBODY MODEL SEDIMENT-HOSTED DEPOSIT DETAILED OREBODY MODEL LIMESTONE DEPOSIT

Mineralisation Age

ORE Limestone

Comments

These quarries, just to the north of the Calcium quarries, began operation in 1926 under the auspices of the Ryan Lime Company. From 1926 until 1969, over 35,000 tonnes of limestone was produced.

Calcium Products Pty Ltd took over operation of the quarries in 1969, and until 1994 had produced over 366,000 tonnes of limestone.

Unimin Australia held the leases for a while and rehabilitated the open cut workings.

BM Webb Quarries Pty Ltd now hold the leases.

The limestone forms a series of hills that have been worked extensively for agricultural and chemical grade limestone.

A Summary of Major Mineral Resources, Mines and Projects, 2016

493633 CANNINGTON

OPERATING MINE

Descriptive Location: 76 KM SOUTH-WEST OF MCKINLAY, 195KM SE OF MT ISA.

1:100 000 sheet Number and Name: 7054 SELWYN

Grid Reference: Zone 54 491720 mE 7582016 mN Latitude -21.8658 Longitude 140.9199 Date Recorded: 30/January/2017

Other Names	for De	posit /	Mine
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Commodities	Size	Size Definition	
SILVER	GIANT	>10 000 tonnes AG	
LEAD	LARGE	2 500 000 - 5 000 000 tonnes PB	
ZINC	MEDIUM	200 000 - 2 000 000 tonnes ZN	

Production Details

Period: 1-Jul-1997 to 30-Jun-1998

 SILVER
 380,548.0 kilograms

 LEAD
 METAL
 80,846.0 tonnes

 ZINC
 CONCENTRATE
 41,932.0 tonnes

 Period:
 1-Jul-1998
 to 30-Jun-2016

 SILVER
 18,921,297.6 kilograms

 LEAD
 METAL
 4,131,595.8 tonnes

 ZINC
 METAL
 1,222,440.7 tonnes

Published Reserves/Resources

BR 10471 Published in 2016

CANNINGTON OC SULPHIDES

INDICATED MINERAL RESOURCE 6,300,000 tonnes Ore @ 56.00 g/t SILVER FOR 352,800 Kilograms SILVER

2.55 % LEAD FOR 160,650 Tonnes LEAD 1.76 % ZINC FOR 110,880 Tonnes ZINC

BR 10471 Published in 2016

CANNINGTON OC SULPHIDES

MEASURED MINERAL RESOURCE14,000,000 tonnes Ore @85.00 g/t SILVERFOR1,190,000 Kilograms SILVER3.38 % LEADFOR473,200 Tonnes LEAD

2.20 % ZINC FOR 308,000 Tonnes ZINC

BR 10471 Published in 2016

CANNINGTON UG SULPHIDES

INDICATED MINERAL RESOURCE 17,000,000 tonnes Ore @ 140.00 g/t SILVER FOR 2,380,000 Kilograms SILVER 4.06 % LEAD FOR 690,200 Tonnes LEAD 2.77 % ZINC FOR 470,900 Tonnes ZINC

Comments/Cut Off Factor: Mineralisation at A\$100/t averages 85g/tAg, 88%Pb and 81%Zn.

Probable 3.3Mt @ 227g/t Ag, 5.87% Pb & 3.71% Zn. Metal recovery Ag at 85%, Pb at 88%, Zn at 81% at 81% $^{\circ}$

BR 10471 Published in 2016

CANNINGTON UG SULPHIDES

INFERRED MINERAL RESOURCE 8,400,000 tonnes Ore @ 101.00 g/t SILVER FOR 848,400 Kilograms SILVER 3.56 % LEAD FOR 299,040 Tonnes LEAD 2.04 % ZINC FOR 171,360 Tonnes ZINC

Comments/Cut Off Factor: Mineralisation at A\$100/t averages 85g/tAg, 88%Pb and 81%Zn.

Reserve Life is 6.5 years (June 2016)

BR 10471 Published in 2016

CANNINGTON UG SULPHIDES

 MEASURED MINERAL RESOURCE
 50,000,000 tonnes Ore @

 190.00 g/t SILVER
 FOR
 9,500,000 Kilograms SILVER

 5.11 % LEAD
 FOR
 2,555,000 Tonnes LEAD

 3.45 % ZINC
 FOR
 1,725,000 Tonnes ZINC

Comments/Cut Off Factor: Mineralisation at A\$100/t averages 85g/tAg, 88%Pb and 81%Zn.

Includes Proved 17Mt @ 202g/t Ag, 5.73% Pb & 3.69% Zn; Metal recovery Ag at 85%, Pb at 88%, Zn at

81%

Resource figures listed above are JORC compliant.

Published Reference ID Year Author Title Source

BR 10471 2016 SOUTH 32 LTD SOUTH 32 ANNUAL REPORT HTTP://WWW.SOUTH32.NET/INV 2016 ESTORS-MEDIA/REPORTS-AND-P

RESENTATIONS

A Summary of Major Mineral Resources, Mines and Projects, 2016

Major Mining Related Events

Ye	ear Commence 1990	d to	Year Completed 1992	Comments Discovered by BHP Minerals Pty Ltd in June 1990. Discovery not announced until December 1991.
	1993	to	1994	Detailed feasibility study in early 1993. Excavation of exploration decline commenced in August 1993.
	1995	to	1996	Development approved. Site works continued.

Operating Mine Life: 1997 to 2026 First production ore trucked to the surface in May 1997. Full production commenced mid-1998. 20 year mine life as of March 2006.

Mining Operations

Comments

UNDERGROUND MINING METHODS

DECLINED SHAFTS/DRIVES

SHAFTS

STOPING

ML 90059 100.00% SOUTH32 CANNINGTON PROPRIETARY LIMITED

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

KURIDALA-SELWYN DOMAIN Mount Norna Quartzite? / PALAEOPROTEROZOIC to

PALAEOPROTEROZOIC

Deposit Model

GENERAL OREBODY MODEL SEDIMENT-HOSTED DEPOSIT

DETAILED OREBODY MODEL SEDIMENT-HOSTED PB-ZN (BROKEN HILL TYPE)

Mineralisation Age

ORE PALAEOPROTEROZOIC <1677+/-9 Ma

Comments

The deposit occurs within a sequence of garnetiferous psammite within a migmatitic quartzo-feldspathic terrain beneath approximately 10-60m of overlying Cretaceous and Recent sediments. Currently the world's largest single mine producer of silver.

The sequence strikes north and is cut by two major NW-trending structures. The Trepell Fault separates the low-grade Northern and deeper, high-grade Southern zones of the deposit. The Hamilton Fault forms the southern limb of the deposit.

The "Cannington Growth Project" was approved in 2003, allowing for underground development into the Northern zone and improvements to be made to mine site facilities.

BHP Billiton reported avergare Metallurgical recovery figures in Annual Report 2011: Ag 87%; Pb 89%; Zn 70% (BR9765). UG sulphide operation extent for proved ore reserves is 12.5m sectional x 15m vertical & probable ore reserves is 25m sect. x 2m vert. In 2011BHP Billiton reported that at Cannington additional mineral resources were identified due to additional drilling and also as part of an open-pit project study currently undertaken (BR9765).

In 2016 South32 stated that Ag and Pb production decreased by 5% due to a temporary reduction in mill throughput, but conversely an increase in the average Zn ore grade resulted in record annual Zn production (9% increase) (BR10471)

2016: South32 concluded that an investment decision to potentially extend the life of the Cannington mine will not be required before the end of this decade (BR10471).

In 2015 South 32 announced that with declining grades the paste plant will play a critical role in minimising the impact of grade decline in the underground mine by increasing mining rates. Also silver and lead production is expected to decline over the next two years although this will be partly offset by an increase in zinc ore grades and production. (BR10428).

There has been no announcement from the company in respect of the potential open-cut resource although an EIS (environmental impact statement) process has been completed to progressively convert part of the current underground mining operation to an open-cut mining operation. Processing throughput would increase to approximately 4 Mtpa with an average annual concentrate production of 415,000 t.

As of July 2014, Cannington had a reserve life of 9 years, although Cannington is was scheduled to cease operations in 2020. Mine life is extended by means of an open cut mine over the shallower northern underground operations.

Web Page

http://www.south32.net/

A Summary of Major Mineral Resources, Mines and Projects, 2016

38085 **CAPE FLATTERY**

OPERATING MINE

Descriptive Location: 30.2 KM ESE OF MUNBURRA, 200KM NNW OF CAIRNS.

1:100 000 sheet Number and Name: 7968 CAPE FLATTERY

Grid Reference: Zone 55 314215 mE 8342269 mN Latitude -14.9880 Longitude 145.2722 8/February/2017 Date Recorded:

Other Names for Deposit / Mine

Cape Flattery Silica Mine

Stanton Turner Spalenka

Commodities **Size Definition** Size SILICA SAND LARGE >2 500 000 tonnes SIS

Production Details

Period:

Period: 1-Jan-1968 31-Dec-1993

SILICA SAND

14,800,000.0 tonnes 30-Jun-2014

Period: 1-Jul-1994 SILICA SAND

27,637,728.1 tonnes

Period: 1-Jul-2001

30-Jun-2016

to

30-Jun-2014

FOUNDRY SAND

9,021,274.9 tonnes

SILICA SAND

818,459.6 tonnes

Published Reserves/Resources

BR 5696 Published in 1998

1-Jul-2007

CAPE FLATTERY

PROVED ORE RESERVE

99.00 % SILICA SAND FOR 200,000,000 Tonnes SILICA SAND

This resource quoted on 2012 website (C-2001)

STANTON+TURNER+CAPE FLATTERY

INDICATED MINERAL RESOURCE

1,000,000,000 Tonnes SILICA SAND

Comments/Cut Off Factor: Indicated resource pers. comm. Alex Temperley 1999.

Indicated from drilling results. Pers.Comm. 16/2/1999 from Alex Temperley by phone 07 4051 5099. This

QUEENSLAND MINERALS AND

Comments

figure of the indicated resource is an estimate only of silica sand.

Resource figures listed above are NOT JORC compliant.

Title Source Published Reference ID Year Author

BR 5696 1998 DEPARTMENT OF MINES

ENERGY REVIEW, 1997-98. AND ENERGY,

QUEENSLAND

Year Commenced Year Completed

Major Mining Related Events

1968 1991 to

CAPE FLATTERY SILICA MINES PTY LTD

Mining Operations SURFACE MINING METHODS

DREDGING

Tenure Type/Number SHARE Company Name/Surname ML2806 100.00% CAPE FLATTERY SILICA MINES PTY LTD CAPE FLATTERY SILICA MINES PTY LTD ML2965 100.00% ML7069 100.00% CAPE FLATTERY SILICA MINES PTY LTD

Comments

Host Rock/Cover Sequences

40048

Structural Unit Formation Name/Age

MODERN COASTAL DEPOSITS

Deposit Model

ML

GENERAL OREBODY MODEL DUNE DEPOSIT

100.00%

DETAILED OREBODY MODEL DUNE DEPOSIT SILICA SAND

Mineralisation Age

PLEISTOCENE ORE

A Summary of Major Mineral Resources, Mines and Projects, 2016

Comments

The Cape Flattery-Cape Bedford dunefield is \sim 580 square km in area and occupies a low-lying coastal plain, interspersed with numerous dune lakes and swamps.

The sand is devoid of vegetation, unconsolidated and consists of subangular to subrounded quartz grains of high chemical purity. Heavy mineral content ranges from a trace to $\sim 0.75\%$.

The average analysis of the sand exported is 99.7% SiO2, 0.15% Al2O3, 0.012% Fe2O3, nil CaO, 0.04% MgO and 0.08% loss on ignition.

Web Page

http://www.cfsm.com.au/

A Summary of Major Mineral Resources, Mines and Projects, 2016

507499 CAPRICORN SANDSTONE

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 2.7KM SE OF STANWELL.
1:100 000 sheet Number and Name: 8950 MOUNT MORGAN

Grid Reference: Zone 56 228790 mE 7398433 mN Latitude -23.5017 Longitude 150.3443 Date Recorded: 8/February/2017

Other Names for Deposit / Mine

Stanwell

Scotsman'S Folly

Commodities Size Size Definition

 BUILDING STONE
 SMALL
 100 000 - 2 000 000 tonnes BLST

 SANDSTONE
 SMALL
 10 000 - 100 000 tonnes SST

Production Details

Period: 1-Jul-1996 to 30-Jun-2016

SANDSTONE 185,470.0 tonnes

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations Comments

OPEN CUT MINING

Tenure Type/NumberSHARECompany Name/SurnameML7341100.00%CAPRICORN STONE PRODUCTS PTY LTDML80102100.00%CAPRICORN STONE PRODUCTS PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

SURAT BASIN Precipice Sandstone / EARLY JURASSIC to EARLY JURASSIC

Deposit Model

Mineralisation Age

Comments

High grade sandstone material used as wall cladding, pavers and restoration grade stone. Sandstone is also supplied for retaining walls, landscaping products and cut to order for commercial projects.

The Stanwell reserve holds millions of cubic metres of dimension stone and has a probable mine life well into the next century. The quarry was established in the late 1800s. Quarrymen used bars and black powder to extract stone manually then.

In 1994 the main quarries were re-opened. Fantani chainsaws were used to trench the stone. The stone was then under drilled, plugged and feathered to extract sandstone in large blocks. Since 2000 drilling and diamond wire were utilised to open up new areas of the reserve. Rose Hill was the source of restoration stone for the 4th stage of restoration of Parliament House in the Brisbane CBD as in various other prominent historical buildings in Sydney (Law Court, Central Railway Station, 2 Cathedrals).

Web Page

http://capricornsandstone.com.au/

A Summary of Major Mineral Resources, Mines and Projects, 2016

485888 **CAPRICORN SAPPHIRE**

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 8.2KM EAST OF SAPPHIRE, ANAKIE AREA.

1:100 000 sheet Number and Name: 8451 RUBYVALE

Grid Reference: Zone 55 582004 mE 7407292 mN Latitude -23.4422 Longitude 147.8028 Date Recorded: 8/February/2017

Other Names for Deposit / Mine

Policeman'S Run

Policeman'S Run North

Nardoo

Nunan One One Three Nunan One One Four Nunan One One Five

Staines Four

Commodities **Size Definition** Size LARGE SAPPHIRE >10 tonnes SAPP

234,609.0 carats

2,063,716.0 carats

Production Details

Period: 1-May-2005 to 30-Jun-2005

SAPPHIRE

Period: 1-Jul-2005 30-Jun-2006

SAPPHIRE

Period: 1-Jul-2015 30-Jun-2016

SAPPHIRE 1,098,324.0 australian dollars

Published Reserves/Resources

BR 10508 Published in 2016 NORTHERN FLATS

> INFERRED MINERAL RESOURCE 641,000 tonnes Ore @ 8,005,000 Carats SAPPHIRE

JORC 2012; grade 10 carats per tonne

BR 10508 Published in 2016

NORTHERN FLATS

MEASURED MINERAL RESOURCE 5,373,165 tonnes Ore @ 107,463,293 Carats SAPPHIRE

JORC 2004; grade: 20 carats per tonne

Resource figures listed above are JORC compliant.

Title Published Reference ID Year Author

BR 10508 2016 RICHLAND RESOURCES RICHLAND RESOURCES LTD LIMITED JORC RESOURCE ESTIMATE UPDATE FOR CAPRICORN

SAPPHIRE MINE, 22 JUNE 2016

HTTP://WWW.RICHLANDRESOU RCESLTD.COM/CAPRICORNSAPP

HIRE/

Major Mining Related Events

Year Commenced Year Completed Comments

Operating Mine Life: 2005 to 2010 Current reserves give a mine life of 5.3 years as at March 2005.

Mining Operations Comments

OPEN CUT MINING

Tenure Type/Number SHARE Company Name/Surname 70419 CAPRICORN SAPPHIRE PTY LTD ML100.00% ML 70447 100.00% CAPRICORN SAPPHIRE PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

CAINOZOIC ALLUVIAL & COLLUVIAL Qa-QLD / QUATERNARY to QUATERNARY

DEPOSITS **Deposit Model**

> GENERAL OREBODY MODEL ALLUVIAL PLACER

DETAILED OREBODY MODEL ALLUVIAL/ELUVIAL GEMSTONES

Mineralisation Age

ORE CENOZOIC

A Summary of Major Mineral Resources, Mines and Projects, 2016

Comments

The sapphire-bearing gravels are 1 to 3m thick and lie beneath an average of 9m of overburden.

The sapphires of the Cainozoic deposits of the Anakie fields are thought to be derived from the Hoy Basalt of presumed Tertiary age. The Hoy Basalt is represented by at least 60 remnants of vent plugs intruding the Retreat Granite.

Nardoo is the largest sapphire resource in Queensland and Australis Mining Operations Pty Ltd planned to produce 4160kg of sapphire per year. However, the company was placed in administration in October 2005.

The EPA suspended the mine's environmental authority in April 2006. Richland Resources Limited commenced operations at the Capricorn sapphire (Nardoo) mine in April 2015.

In June 2016 Richland Resources updated the resource estimate as follows; Northern Flats, JORC 2012 inferred 641 000 t at 10 carats per tonne using the same cut-off grade as the mining operation.

The Northern Flats area has an estimated average sapphire-bearing gravel thickness of 1.5 m with an average overburden of approximately 4m.

A Summary of Major Mineral Resources, Mines and Projects, 2016

493442 CEDARS MINE

OPERATING MINE

Descriptive Location: APPROX 10KM SW OF YARRAMAN, KINGAROY AREA, 130KM NW OF BRISBANE.

1:100 000 sheet Number and Name: 9244 KINGAROY

Grid Reference: Zone 56 389416 mE 7026257 mN Latitude -26.8809 Longitude 151.8866 Date Recorded: 10/February/2017

Other Names for Deposit / Mine

Margries Lease Yarraman

Lizzie

Commodities Size Definition

BENTONITE MEDIUM 200 000 - 20 000 000 tonnes BENT

Production Details

Period: 1-Jan-1937 to 31-Dec-1938

BENTONITE

130.0 tonnes

Period: 1-Jan-1940 to 31-Dec-1942

BENTONITE 442.0 tonnes

Period: 1-Jul-1996 to 30-Jun-2016

BENTONITE 138,066.0 tonnes

Published Reserves/Resources

BENTONITE

INFERRED MINERAL RESOURCE

200,000 Tonnes BENTONITE

Comments/Cut Off Factor: Estimated resource (pers. comm. David Douglas, March 1999).

Estimated resource at March 1999 by David Douglass (pers.com.).

Resource figures listed above are NOT JORC compliant.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

Operating Mine Life: 1985 to 2021 Mining lease holders reported in February 2001 that sufficient material existed for 20

years of mining.

Mining Operations Comments

OPEN CUT MINING

UNDERGROUND MINING METHODS

Tenure Type/Number SHARE Company Name/Surname
ML 6610 100.00% PCP DOUGLASS PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

MAIN RANGE VOLCANIC SUBPROVINCE

Main Range Volcanics/s / EARLY TERTIARY to LATE TERTIARY

Deposit Model

GENERAL OREBODY MODEL RESIDUAL DEPOSIT
DETAILED OREBODY MODEL LATERITIC KAOLIN

Mineralisation Age

ORE TERTIARY

Comments

Clay minerals have formed through the weathering and alteration of acid volcanic sediments, probably deposited in a lacustrine

environment

A Summary of Major Mineral Resources, Mines and Projects, 2016

40335 CEMENT MILLS

OPERATING MINE

Descriptive Location: 41.9KM ENE OF INGLEWOOD, 175KM SW OF BRISBANE.

1:100 000 sheet Number and Name: 9141 INGLEWOOD

Grid Reference: Zone 56 352805 mE 6864476 mN Latitude -28.3376 Longitude 151.4983 Date Recorded: 10/February/2017

Other Names for Deposit / Mine

Gore Quarry

Commodities Size Size Definition

LIMESTONE MEDIUM 2 000 000 - 10 000 000 tonnes LST

Production Details

Period: 1-Jan-1915 to 31-Dec-1969

LIMESTONE CRUSHED ROCK 1,140,000.0 tonnes

Period: 1-Jul-1998 to 30-Jun-2016

LIMESTONE CRUSHED ROCK 570,967.9 tonnes

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

1915 to 1936 Mined by Queensland Cement & Lime Co.

1944 to 1969 Mined by A.C.F. & Shirley Fertilizers.

1998 Mined by Equipment & Machinery Sales Pty Ltd.

Mining Operations Comments

OPEN CUT MINING

Tenure Type/NumberSHARECompany Name/SurnameML50143100.00%SOUTH QUEENSLAND LIME PTY. LTD.ML50224100.00%SOUTH QUEENSLAND LIME PTY. LTD.

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

TEXAS SUBPROVINCE Texas beds / EARLY CARBONIFEROUS to EARLY CARBONIFEROUS

Deposit Model

GENERAL OREBODY MODEL SEDIMENT-HOSTED DEPOSIT

DETAILED OREBODY MODEL LIMESTONE DEPOSIT

Mineralisation Age

ORE LATE DEVONIAN to EARLY

CARBONIFEROUS

Comments

The limestone is grey to light grey and strongly jointed. Individual lenses are up to 450m long by 90m wide. It has been mined since

1915. The current operator is Equipment & Machinery Sales Pty Ltd.

A Summary of Major Mineral Resources, Mines and Projects, 2016

45523 **CHRISTMAS CREEK LIMESTONE**

OPERATING MINE, ACTIVE PROSPECT

20.7 KM NNW OF CLARKE RIVER HOMESTEAD, 150KM WNW OF TOWNSVILLE. Descriptive Location:

1:100 000 sheet Number and Name: 7959 CLARKE RIVER

Grid Reference: Zone 55 324096 mE 7892072 mN Latitude -19.0565 Longitude 145.3283 Date Recorded: 16/February/2017

Other Names for Deposit / Mine

Commodities **Size Definition**

Size LIMESTONE SMALL 100 000 - 2 000 000 tonnes LST LIME

AGGREGATE

Production Details

Period: 1-Jul-1996 30-Jun-2016

OTHER LIMESTONE 718,002.6 tonnes

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Referen	ce II) Year	Author	Title	Source			
Major Mining Re	Major Mining Related Events							
Year Commence	d	Year Comp	leted	Comments				
1975	to	197	75	Mined to supply ballast for the abandoned Greenvale rai	lway line.			
1996	to	200	03	Mining by David Mitchell Ltd with primary crushed lime (near Woodstock) where it is burnt in kilns to produce quality (near Woodstock) where it is burnt in kilns to produce quality (near Woodstock) where it is burnt in kilns to produce quality (near Woodstock) where it is burnt in kilns to produce quality (near Woodstock) where it is burnt in kilns to produce quality (near Woodstock) where it is burnt in kilns to produce quality (near Woodstock) where it is burnt in kilns to produce quality (near Woodstock) where it is burnt in kilns to produce quality (near Woodstock) where it is burnt in kilns to produce quality (near Woodstock) where it is burnt in kilns to produce quality (near Woodstock) where it is burnt in kilns to produce quality (near Woodstock) where it is burnt in kilns to produce quality (near Woodstock) where it is burnt in kilns to produce quality (near Woodstock) where it is burnt in kilns to produce quality (near Woodstock) where it is burnt in kilns to produce quality (near Woodstock) where it is burnt in kilns to produce quality (near Woodstock) where the produce qu				
2003	to	200)5	David Mitchell Ltd acquired by Unimin Pty Ltd. Mining	operations continued.			
2005				Zinaback Pty Ltd acquired deposit and currently screening restarting work in the open cut.	ng dumps to obtain material before			

Mining Operations	Comments
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OPEN CUT MINING Open cut has been mined to southern boundary of the mining

lease

Tenure Type/Number **SHARE** Company Name/Surname ML1445 100.00% ZINABACK PTY. LTD.

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

CAMEL CREEK SUBPROVINCE Perry Creek Formation / LATE ORDOVICIAN to SILURIAN

Deposit Model

SEDIMENT-HOSTED DEPOSIT GENERAL OREBODY MODEL DETAILED OREBODY MODEL LIMESTONE DEPOSIT

Mineralisation Age

ORE ORDOVICIAN to SILURIAN Fossiliferous limestone dipping ~30deg east, several

caves formed in limestone adjacent to current mining. Intruded by several andesitic dykes.

Comments

The limestone consists mainly of massive, recrystallised calcilutite with local development of bioclastic calcarenite and calcirudite. It has supplied ballast for the Greenvale railway line and limestone for lime production.

A Summary of Major Mineral Resources, Mines and Projects, 2016

477119 CLAYPAVE

OPERATING MINE

Descriptive Location: 7 KM EAST OF IPSWICH, 25KM WEST OF BRISBANE.

1:100 000 sheet Number and Name: 9442 IPSWICH

Grid Reference: Zone 56 483110 mE 6946583 mN Latitude -27.6045 Longitude 152.8288 Date Recorded: 9/February/2017

Other Names for Deposit / Mine

Hudsons No 1

Commodities Size Size Definition

BRICK CLAY MEDIUM 200 000 - 20 000 000 tonnes BKCY

Production Details

Period: 1-Jul-1996 to 30-Jun-2016

BRICK CLAY 552,679.0 tonnes

Published Reserves/Resources

CLAY-SHALE

INFERRED MINERAL RESOURCE

7,000,000 Tonnes BRICK CLAY

Comments/Cut Off Factor: Resource estimate from Claypave Pty Ltd. (2004)

Resource estimate from Leon Burgess-Dean, Research and Development Manager, Claypave Pty Ltd

Resource figures listed above are NOT JORC compliant.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

Operating Mine Life: 2004 to 2104 Estimated 100 years of clay resource remaining in existing mining leases at current extraction rates of 70 000 tonnes clay per year (pers comm Claypave Pty Ltd).

Mining Operations Comments

OPEN CUT MINING

Tenure Type/Number		SHARE	Company Name/Surname	
ML	4553	100.00%	CLAYPAVE PTY LTD	
ML	4556	100.00%	TRANSPACIFIC WASTE MANAGEMENT PTY LTD	
ML	4559	100.00%	CLAYPAVE PTY LTD	
ML	4642	100.00%	JAFFAS QLD PTY LTD	
ML	4714	100.00%	CLAYPAVE PTY LTD	
ML	50070	100.00%	CLAYPAVE PTY LTD	
ML	50077	100.00%	CLAYPAVE PTY LTD	

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

BOOVAL BASIN Redbank Plains Formation / EARLY TERTIARY to EARLY TERTIARY

Deposit Model

GENERAL OREBODY MODEL SEDIMENT-HOSTED DEPOSIT

DETAILED OREBODY MODEL SEDIMENTARY CLAY DEPOSITS

Mineralisation Age

ORE TERTIARY

Comments

Web Page

www.claypave.com

A Summary of Major Mineral Resources, Mines and Projects, 2016

504531 COMERFORD SANDSTONE

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: EAST OF AIR FORCE ROAD, SOUTH OF GOLD MINE RD, HELIDON

1:100 000 sheet Number and Name: 9342 HELIDON

Grid Reference: Zone 56 412022 mE 6956494 mN Latitude -27.5123 Longitude 152.1092 Date Recorded: 8/February/2017

Other Names for Deposit / Mine

Bexton Quarry

Paradise Bush Rocks Quarry

Sandstone 1

Commodities Size Size Definition

BUILDING STONE VERY SMALL <100 000 tonnes BLST SANDSTONE SMALL 10 000 - 100 000 tonnes SST

Production Details

Period: 1-Jul-1996 to 30-Jun-2016

SANDSTONE 39.423.0 tonnes

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations

Tenure Type/Number		SHARE	Company Name/Surname
ML	7246	100.00%	BEXTON INVESTMENTS PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

CLARENCE-MORETON BASIN Woogaroo Subgroup / LATE TRIASSIC to EARLY JURASSIC

Deposit Model

GENERAL OREBODY MODEL SEDIMENT-HOSTED DEPOSIT

Mineralisation Age

ORE TRIASSIC to JURASSIC

Comments

Comerford Sandstone Pty Ltd operates a large quarry from which blocks are cut by trenching and extracted for processing in the company's processing facility on site. The company markets its products both domestically and overseas.

A shipment of sandstone tiles was sent to Japan in 1990 and contracts have been supplied since for resort projects and housing estates.

Export destinations include Hong Kong, Indonesia, Malaysia, Korea, Taiwan, Canada and the United States of America.

It has also supplied contracts in Queensland for various projects including the Sheraton Mirage, Port Douglas; Quay West Hotel,

Brisbane; and Arundel Hills Country Club, Gold Coast.

Ownership of quarry changed to Bexton Investments Pty Ltd in June 2009.

Web Page

http://www.comerfords and stone.com.au/

A Summary of Major Mineral Resources, Mines and Projects, 2016

478957 CONJUBOY DIATOMITE

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 45KM NW OF GREENVALE, 6.8 KM NE OF CONJUBOY HOMESTEAD, 200KM SW OF CAIRNS.

1:100 000 sheet Number and Name: 7860 CONJUBOY

Grid Reference: Zone 55 269869 mE 7935032 mN Latitude -18.6632 Longitude 144.8183 Date Recorded: 11/January/2016

Other Names for Deposit / Mine

Melinga

Commodities Size Size Definition

DIATOMITE LARGE >2 000 000 tonnes DIAT

Production Details

Period: 1-Jul-2009 to 30-Jun-2015

DIATOMITE 15,697.0 tonnes

Published Reserves/Resources

BR 9510 Published in 2003

CONJUBOY

INFERRED MINERAL RESOURCE 200,000,000 cubic metres Ore @

200,000,000 Cubic Metres DIATOMITE

Includes defined resource of >20 million m3 of diatomite-bearing material.

Resource figures listed above are NOT JORC compliant.

Published Reference ID Year Author Title Source

BR 9510 2003 PRENTICE, P. AUSTRALIAN DIATOMACEOUS EARTH JOINT VENTURE.

& BERRY, M.V. (EDS)
AUSTRALIAN INDUSTRIAL
MINERALS CONFERENCE, THE
FUTURE FOR NATURAL AND
RECYCLED MINERALS AND
ROCKS, EXTENDED
ABSTRACTS. AUSTRALIAN

IN SIEMON, J.E., MARINELLI, J.F.

INSTITUTE OF GEOSCIENTISTS

BULLETIN 38, 39-42.

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations	Comments
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OPEN CUT MINING

Tenure Type/Number		SHARE	Company Name/Surname
MDL	325	20.00%	DIATOMACEOUS EARTH INVESTMENTS PTY LTD
MDL	325	80.00%	GREENVALE SILICON PTY LTD
ML	10279	20.00%	DIATOMACEOUS EARTH INVESTMENTS PTY LTD
MI.	10279	80.00%	GREENVALE SILICON PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

MCBRIDE BASALT PROVINCE TQI\d-QLD / LATE TERTIARY to QUATERNARY

Deposit Model

GENERAL OREBODY MODEL SEDIMENT-HOSTED DEPOSIT

DETAILED OREBODY MODEL DIATOMITE DEPOSIT

Mineralisation Age

ORE TERTIARY

Comments

This deposit was discovered during BMR-GSQ mapping in the 1950s. The diatomite is kaolinitic and intercalated with claystone and sandstone.

The diatomite has a porosity of 74.36%, bulk dry density of 0.67g/cm3 and grain density of 2.26g/cm3. It consists mainly of the cylindrical diatom Melosira.

Production of diatomite commenced in 2010.

A Summary of Major Mineral Resources, Mines and Projects, 2016

42403 CORALIME

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 4.5KM NE OF MT GARNET. 1:100 000 sheet Number and Name: 7962 RAVENSHOE

Grid Reference: Zone 55 303147 mE 8048054 mN Latitude -17.6456 Longitude 145.1444 Date Recorded: 16/February/2017

Other Names for Deposit / Mine

Commodities Size Definition

LIMESTONE SMALL 100 000 - 2 000 000 tonnes LST

MARBLE VERY SMALL <10 000 tonnes MARB

Production Details

Period: 1-Jul-2000 to 30-Jun-2016

LIMESTONE CRUSHED ROCK 286,203.8 tonnes

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

1971 to 1979 First mined by Adams Enterprises Pty Ltd.

Operating Mine Life: 1979 to 2026 Acquired by Miriwinni Pulverised Lime Pty Ltd which has operated the deposit continuously producing crushed lime for agricultural use. Expected 30 years remaining (March 2001)

Mining Operations Comments

OPEN CUT MINING

Two opencuts 250m apart. Main opencut is 150m diameter and

~20m deep. Second opencut is slightly smaller.

Tenure Type/Number SHA		SHARE	Company Name/Surname	Christian Name	
ML	4023	33.00%	WILKINS	Maxwell John	
ML	4023	33.00%	WILKINS	Robert James	
ML	4023	33.00%	WILKINS	Russell Ross	
ML	20013	33.00%	WILKINS	Maxwell John	
ML	20013	33.00%	WILKINS	Robert James	
ML	20013	33.00%	WILKINS	Russell Ross	
ML	20530	33.00%	WILKINS	Maxwell John	
ML	20530	33.00%	WILKINS	Robert James	
ML	20530	33.00%	WILKINS	Russell Ross	

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

HODGKINSON PROVINCE Chillagoe Formation / EARLY SILURIAN to EARLY DEVONIAN

Deposit Model

GENERAL OREBODY MODEL SEDIMENT-HOSTED DEPOSIT

DETAILED OREBODY MODEL LIMESTONE DEPOSIT

Mineralisation Age

ORE SILURIAN to EARLY DEVONIAN

Comments

The marble is structureless and extensively recrystallised, being in most places a fine-grained marble.

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507688 CORK

OPERATING MINE

Descriptive Location: 110KM SW OF WINTON, 2 KM SW OF MAIN GYPSUM MINING OPERATION.

1:100 000 sheet Number and Name: 7352 TULMUR

Grid Reference: Zone 54 607011 mE 7463403 mN Latitude -22.9340 Longitude 142.0436 Date Recorded: 19/May/2015

Other Names for Deposit / Mine

Cork No 4

Commodities Size Size Definition

GYPSUM SMALL 5 000 - 5 000 000 tonnes GYP

Production Details

Period: 1-Jul-2006 to 30-Jun-2014

GYPSUM 141,263.6 tonnes

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations Comments

SURFACE MINING METHODS

Tenure Type/Number SHARE Company Name/Surname

ML 95261 100.00% ZINABACK PTY. LTD.

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

TERTIARY SEDIMENTARY BASINS Old Cork beds / EARLY TERTIARY to EARLY TERTIARY

Deposit Model

GENERAL OREBODY MODEL SEDIMENT-HOSTED DEPOSIT

DETAILED OREBODY MODEL EVAPORITE DEPOSIT

Mineralisation Age

ORE TERTIARY

Comments

Web Page

A Summary of Major Mineral Resources, Mines and Projects, 2016

504552 CORK GYPSUM

OPERATING MINE

Descriptive Location: 110KM SW OF WINTON, 340KM SOUTH OF MT ISA.

1:100 000 sheet Number and Name: 7352 TULMUR

Grid Reference: Zone 54 609004 mE 7465008 mN Latitude -22.9193 Longitude 142.0630 Date Recorded: 10/February/2017

Other Names for Deposit / Mine

Winton Gypsum

Commodities Size Size Definition

GYPSUM SMALL 5 000 - 5 000 000 tonnes GYP

Production Details

Period: 1-Jul-1996 to 30-Jun-2016

GYPSUM 190,883.2 tonnes

Published Reserves/Resources

BR 6194 Published in 1999

CORK DEPOSITS 1,2,3 AND 4
INFERRED MINERAL RESOURCE

2,000,000 Tonnes GYPSUM

Resource figures listed above are NOT JORC compliant.

Published Reference ID Year Author Title Source

BR 6194 1999 SMART J V GYPSUM MINERAL INFORMATION

LEAFLET NO 26 QUEENSLAND DEPARTMENT OF MINES AND

ENERGY

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations Comments

SURFACE MINING METHODS Surface excavations using front-end loader to 1m depth.

Tenure Type/Number		SHARE	Company Name/Surname	
ML	95102	100.00%	ZINABACK PTY. LTD.	
ML	95106	100.00%	ZINABACK PTY. LTD.	
ML	95298	100.00%	ZINABACK PTY. LTD.	
ML	95510	100.00%	ZINABACK PTY. LTD.	

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

TERTIARY SEDIMENTARY BASINS Old Cork beds / EARLY TERTIARY to EARLY TERTIARY

Deposit Model

GENERAL OREBODY MODEL SEDIMENT-HOSTED DEPOSIT

DETAILED OREBODY MODEL EVAPORITE DEPOSIT

Mineralisation Age

ORE TERTIARY

Comments

The deposits comprise unconsolidated gypsum crystals in beds up to 2m thick within sediments of probable Tertiary age. The gypsum is exposed over a wide area in small gullies and on the edges of incised plateaux. The gypsum is suitable for agricultural use. The origin of the gypsum is unclear, but it was probably the remnants of a shallow salt lake formed in the Tertiary on the Cretaceous Winton Formation.

The deposit forms 2 to 3m high, flat hillocks above lower ground due to more resistance to erosion. Pale yellow-white earthy calcareous soil contains gypsum rosettes up to 40mm in diameter. There appears to be large area of gypsum-bearing ground.

The deposit is mined by Zinaback Pty Ltd. The product is sold for agricultural purposes.

Web Page

A Summary of Major Mineral Resources, Mines and Projects, 2016

501301 CRACOW

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 3.21KM W OF CRACOW, 174.89KM SE OF GLADSTONE.

1:100 000 sheet Number and Name: 8947 CRACOW

Grid Reference: Zone 56 225128 mE 7200217 mN Latitude -25.2892 Longitude 150.2703 Date Recorded: 31/January/2017

Other Names for Deposit / Mine

Klondyke

Royal Standard

Klondyke North

Cracow Gold Mine

Crown Shoot

Royal Shoot

Commodities	Size	Size Definition
GOLD	MEDIUM	5 - 50 tonnes AU
SILVER	SMALL	5 - 500 tonnes AG

Production Details

Period: 1-Jul-1932 to 30-Jun-1933 8 tonnes HARD ROCK ORE (OR REEF)

GOLD BULLION 0.2 kilograms

Period: 1-Jan-1936 to 31-Dec-1942 6,916 tonnes HARD ROCK ORE (OR REEF)

GOLD FINE 77.0 kilograms SILVER 16.1 kilograms

Period: 1-Jan-1949 to 31-Dec-1952 4,353 tonnes HARD ROCK ORE (OR REEF)

SILVER 4.2 kilograms
GOLD FINE 27.5 kilograms

Period: 1-Jul-2004 to 30-Jun-2016

GOLD FINE 28,669.4 kilograms SILVER 21,854.6 kilograms

Period: 1-Jul-2014 to 30-Jun-2015

GOLD BULLION 2,261.3 kilograms

Published Reserves/Resources

BR 10462 Published in 2016 CRACOW UNDERGROUND

 $\emph{INDICATED MINERAL RESOURCE} \quad 1,000,000 \text{ tonnes Ore } @$

6.53 g/t GOLD **FOR** 6,530 Kilograms GOLD

Comments/Cut Off Factor: 2.8g/t Au cutoff.

 $Royal, Crown, Klondyke\ North, Sovereign, Kilkenny, Tipperary, Empire, Roses\ Pride, Phoenix, Stockpiles.$

Includes probable reserves of 0.56 Mt at 5.12 g/t Au at 3.5% cut-off.

BR 10462 Published in 2016

CRACOW UNDERGROUND

INFERRED MINERAL RESOURCE 1,080,000 tonnes Ore @

5.15 g/t GOLD **FOR** 5,562 Kilograms GOLD

Comments/Cut Off Factor: 2.8g/t Au cutoff.

Royal, Crown, Klondyke North, Sovereign, Kilkenny, Tipperary, Empire, Roses Pride, Phoenix, Stockpiles.

BR 10462 Published in 2016

CRACOW UNDERGROUND

MEASURED MINERAL RESOURCE 340,000 tonnes Ore @

Comments/Cut Off Factor: 2.8g/t Au cutoff.

Royal, Crown, Klondyke North, Sovereign, Kilkenny, Tipperary, Empire, Roses Pride, Phoenix, Stockpiles.

3,593 Kilograms GOLD

Includes proved reserves 0.50Mt @ 6.11g/t Au

10.57 g/t GOLD **FOR**

Resource figures listed above are JORC compliant.

Published Reference ID	Year	Author	Title	Source
BR 10462	2016	EVOLUTION MINING	ASX ANNOUNCEMENT:	REPORT TO THE AUSTRALIAN
		LIMITED	ANNUAL MINERAL	SECURITIES EXCHANGE. 21
			RESOURCES AND ORE	APRIL 2016. EVOLUTION
			RESERVES STATEMENT	MINING LIMITED, MELBOURNE.

A Summary of Major Mineral Resources, Mines and Projects, 2016

Major	Mining	Related	Events

Year Commenced 1875	Yea	ar Completed	Comments Gold first discovered in the Cracow region.
1932	to	1933	First period of mining of the Klondyke veins.
1936	to	1942	
1949	to	1952	
1996	to	2000	Joint venture between Newcrest Mining Ltd and Sedimentary Holdings NL (now part of Lion Selection Group) commenced in 1996. Strategy of drilling >100m below old workings delineated major lode system beneath historical workings in 1999.
2001	to	2002	A comprehensive feasibility study was completed in July 2002.

Operating Mine Life: 2003 to 2011 Decline commenced in October 2003 to access resources. Seven year mine life as of October 2004. The proposed mining method is uphole bench stoping with waste rock fill. Estimated cost of project ~A\$90m.

Mining Op	erations			Comments	
DECLI	NED SHAFTS	/DRIVES		Exploration decline was constructed The Royal, Crown and Klondyke No mined from the decline access. The Royal shoot.	orth shoots are
SHAFT	ΓS			Old workings shallow and generally	less than 25m deep.
PITS					
UNDE	RGROUND M	INING METHODS			
Tenure Typ	e/Number	SHARE	Company Name/Surname	e	
ML	3219	100.00%	LION MINING PTY LTD		
ML	80088	100.00%	LION MINING PTY LTD		
ML	80089	100.00%	LION MINING PTY LTD		
Structu	t/Cover Sequen eral Unit RN SUBPROV		Formation Na Camboon Vol	me/Age canics / LATE CARBONIFEROU	JS to EARLY PERMIAN
Deposit Mo	odel				
GENEI	RAL OREBOD	Y MODEL	EPITHERMAL VEIN	NS/PIPE/STOCKWORK	
DETAI	LED OREBOD	DY MODEL	EPITHERMAL PRE	CIOUS METAL	LOW SULPHIDATION EPITHERMAL
Mineralisat	tion Age				
ORE		EARLY PER	MIAN	Veins commonly	bifurcate.

Comments

Sedimentary Holdings NL, in a joint venture with Newcrest Mining Ltd, discovered significant extensions to a lode system beneath historical workings 2km west of previous operations at Golden Plateau.

Mineralisation in the Klondyke lode, 150-400m below surface, is a low sulphidation epithermal system formed in and around a major fault zone. One or more multiphase quartz-adularia-chalcedony lodes are enclosed by stockwork veining in altered volcanics.

The core zone of the mineralisation (Royal Shoot and Crown Shoot) is currently being mined. The Royal orebody was the main ore source for the first two years of production.

The company gave development approval in August 2002. Mining commenced in 2005 with decline access for mining the high-grade Royal, Crown and Klondyke North shoots.

The mineralisation is amenable to conventional cyanide leach extraction after fine grinding, with average recoveries of 94.3% of the gold.

Drilling to the south of the Kilkenny resource in 2008 resulted in the discovery of a new zone of high-grade gold mineralisation.

Resource definition drilling produced encouraging results from the Roses Pride and Empire structures.

An exploration decline was commenced at Kilkenny in the first half of 2009. The mine is now held by Evolution Mining Limited (since 2011).

In 2011 Evolution Mining emerged as operator of the Cracow operations after a merger of Conquest and Catalpa. Evolution mining achieved increases at the Kilkenny, Roses Pride and Coronation ore bodies, but decreased the overall reserve estimates.

The ore reserves have been reported above cut-off grade of 3.0 g/t Au and based on a gold price of A\$1350 per ounce and a gold recovery of 93%. Mining depletion and a narrowing of some lode structures was also taken into account by Evolution (2012).

The individual Crown shoot resources (Jun 2012) include measured resource 73000t at 9.4g/t Au, inferred resource 380000t at 4.5g/t Au; including a proved reserve of 32000t at 12.2g/t Au and a probable reserve of 3000t at 1.0g/t Au (BR10019).

The individual Klondyke North resources (Jun 2012) include a combined (measured, indicated and inferred) resource 418000t at 4.7g/t Au, ; including a proved reserve of 400t at 5.7g/t Au and a probable reserve of 158000t at 4.4g/t Au (BR10019).

In Dec 2010 resource definition continued to validate Kilkenny, Phoenix, Tipperary & Empire shoots: Significant intercepts: KKU051:

21.1m @ 3.8g/t Au from 340m; KKU054: 10.6m @ 13g/t Au from 119m; KKU062: 9.7m @ 11g/t Au from 278m

Dec2010 (cont): KKU053: 2.0m @ 20g/t Au from 101m; KKU060: 4.8m @ 7.7g/t from 179.7m (BR9605).

A Summary of Major Mineral Resources, Mines and Projects, 2016

Web Page

www.evolutionmining.com.au

A Summary of Major Mineral Resources, Mines and Projects, 2016

42412 DALCOUTH

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 12KM NNE OF MT GARNET, 90KM SW OF CAIRNS.

1:100 000 sheet Number and Name: 7962 RAVENSHOE

Grid Reference: Zone 55 304114 mE 8055769 mN Latitude -17.5759 Longitude 145.1542 Date Recorded: 20/May/2015

Other Names for Deposit / Mine

Dalcoath Dividend Blue Jacket

Commodities Size Size Definition

TIN SMALL 100 - 1 000 tonnes SN

Production Details

Period: 1-Jan-1940 to 31-Dec-1973 52 tonnes HARD ROCK ORE (OR REEF)

CASSITERITE 0.8 tonnes

Period: 1-Jul-2012 to 30-Jun-2013

TIN 5.1 tonnes

Published Reserves/Resources

BR 10173 Published in 2012 **DALCOUTH**

INFERRED MINERAL RESOURCE 102,400 tonnes Ore @

0.34 % TIN FOR 348 Tonnes TIN

Resource figures listed above are JORC compliant.

Published Reference ID Year Author Title Source

BR 10173 2012 MGT RESOURCES MGT RESOURCES REPORT TO THE AUSTRALIAN LIMITED PROSPECTUS STOCK EXCHANGE. 15

OCTOBER 2012, MGT RESOURCES LIMITED

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations Comments

UNDERGROUND MINING METHODS

SHAFTS

ADITS

SURFACE MINING METHODS

Tenure Type/NumberSHARECompany Name/SurnameML4349100.00%MGT MINING LIMITEDML20547100.00%MGT MINING LIMITED

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

HODGKINSON PROVINCE Hodgkinson Formation / EARLY DEVONIAN to LATE DEVONIAN

Deposit Model

GENERAL OREBODY MODEL INTRUSIVE-RELATED (PORPHYRY-RELATED)

DETAILED OREBODY MODEL TIN VEINS (CORNISH-TYPE)

Mineralisation Age

ORE LATE CARBONIFEROUS

Comments

Rich, tin-bearing chloritic lodes were worked close to a basic dyke.

 $2013: The more outstanding \ hits included \ 4m \ grading \ 2.24\% \ tin \ from \ 19m \ depth. \ 8m \ grading \ 1.1\% \ tin \ from \ 11m \ depth. \ 8m \ at \ 0.56\% \ tin \ from \ 11m \ depth.$

from 38m depth. 6m at 1.2% tin from 42m depth. 3m at 1.78% tin from 16m depth. and 3m at 1.68% tin from 57m depth.

Web Page

http://www.mgt.net.au/

A Summary of Major Mineral Resources, Mines and Projects, 2016

479740 DINGO DAM

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 88 KM NORTH-WEST OF CHARTERS TOWERS, 95KM WEST OF TOWNSVILLE.

1:100 000 sheet Number and Name: 8059 EWAN

Grid Reference: Zone 55 362592 mE 7845570 mN Latitude -19.4796 Longitude 145.6908 Date Recorded: 31/January/2017

Other Names for Deposit / Mine

Verde Tinto Circular Laterite Lucky Break

Commodities Size Size Definition

 NICKEL
 SMALL
 250 - 25 000 tonnes NI

 COBALT
 SMALL
 10 - 1 000 tonnes CO

 IRON
 VERY SMALL
 <5 000 tonnes FE</td>

 MAGNESITE
 VERY SMALL
 <10 000 tonnes MS</td>

Production Details

Period: 30-Jun-2014 to 30-Jun-2016 89,241 tonnes HARD ROCK ORE (OR REEF)

COBALT 0.1 tonnes
NICKEL 1,637.0 tonnes

Published Reserves/Resources

BR 9088 Published in 2009 CIRCULAR LATERITE

INDICATED MINERAL RESOURCE 850,000 tonnes Ore @

0.72 % NICKEL FOR 6,120 Tonnes NICKEL 0.04 % COBALT FOR 340 Tonnes COBALT

Comments/Cut Off Factor: 0.30% Ni cutoff

BR 9088 Published in 2009 DINGO DAM

MEASURED MINERAL RESOURCE 640,700 tonnes Ore @

0.82 % NICKEL **FOR** 5,253 Tonnes NICKEL 0.06 % COBALT **FOR** 384 Tonnes COBALT

Comments/Cut Off Factor: 0.30% Ni cutoff

Resource figures listed above are JORC compliant.

Published Reference ID Year Author Title Source

BR 9088 2009 METALLICA MINERALS QUARTERLY REPORT TO 31 REPORT TO THE AUSTRALIAN LIMITED MARCH 2009. SECURITIES EXCHANGE.

SECURITIES EXCHANGE.
METALLICA MINERALS LTD,
BRISBANE.

DRIDDA

Year Commenced Year Completed Comments

2006 Metallica Minerals underwent a scoping study over the area and also produced a trial heap

leach plant for the prospect.

Mining Operations

Tenure Type/NumberSHARECompany Name/SurnameML10324100.00%NORNICO PTY LTDML10332100.00%NORNICO PTY LTD

Host Rock/Cover Sequences

Major Mining Related Events

Structural Unit Formation Name/Age

CHARTERS TOWERS PROVINCE Argentine Metamorphics / NEOPROTEROZOIC to CAMBRIAN

Deposit Model

GENERAL OREBODY MODEL RESIDUAL DEPOSIT
DETAILED OREBODY MODEL LATERITIC NICKEL

Mineralisation Age

ORE CENOZOIC Laterite.

A Summary of Major Mineral Resources, Mines and Projects, 2016

Comments

Metallica Minerals completed a scoping study on the Lucky Break Prospect in 2006 and defined a resource. In July 2007, Metallica announced that Metals Finance Corporation will proceed with the \$20 million development of the project.

The annual processing rate is expected be 250,000t of nickel laterite feed for combined vat and heap leach nickel extraction. The heap leach pads will be reusable.

Annual production is forecast at 1600t of contained nickel in a carbonate intermediate product (40% Ni) for an extraction of 85% Ni with rapid leach times of around 3 months. Local acid supply will be from Sun Metals.

The minimum mine life will be 4 years, based on the Dingo Dam and Circular Laterite nickel deposits containing ~8200t of nickel metal to a maximum depth of 35m.

The Lucky Break Project is currently on hold until a suitable acid price is secured and MFC is completing a detailed review of the project in light of the current economic climate, with a view to recommencing development of the project early in 2010.

July 2010 Metallica reports on completed revised definitive feasibility study (DFS) with a positive result. A joint venture agreement with Metals Finance is established. Ore throughput 60000tpa @aver Ni 1.3%, Ni recovery ~85%, Acid comsumption (BR9598)

July 2010 (cont): 420Kg/t ore, Life of operation 5.8yrs, acid price 88\$/t, Nickel price 10.16A\$/lb. The modelled project results in cumulative production of aprox 3800t of Ni during 5-6yrs life of operations. (BR9598)

Metallica announced a nickel ore sales and royalty agreement with Queensland Nickel who have extracted nickel ore from the deposit in January 2015. A high-grade section of the Dingo Dam deposit has been moved to the Yabulu Refinery awaiting processing

Web Page

http://www.metallicaminerals.com.au; www.metalsfinance.com

A Summary of Major Mineral Resources, Mines and Projects, 2016

38223 **DUCIE-WENLOCK**

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 50KM NNE WEIPA AIRPORT, 595KM NW OF CAIRNS.

1:100 000 sheet Number and Name: 7373 AGNEW

Grid Reference: Zone 54 618686 mE 8648366 mN Latitude -12.2246 Longitude 142.0911 Date Recorded: 7/March/2016

Other Names for Deposit / Mine

Ducie Dulhunty

Commodities Size Size Definition

BAUXITE LARGE >200 000 000 tonnes BX

Production Details

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations

Tenure Type/Number SHARE Company Name/Surname

ML 7031 100.00% ALCAN SOUTH PACIFIC PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

KARUMBA BASIN Bulimba Formation / EARLY TERTIARY to EARLY TERTIARY

Deposit Model

GENERAL OREBODY MODEL RESIDUAL DEPOSIT
DETAILED OREBODY MODEL LATERITIC BAUXITE

Mineralisation Age

ORE CENOZOIC

Comments

In 1956, Aluminium Laboratories Ltd carried out exploration in EPM 53, between the Wenlock and Ducie Rivers, and determined an inferred resource of about 150Mt of bauxite grading 12.5% silica and 52% alumina in the crude state.

The bauxite was not considered to be of commercial grade and more drilling was required to delineate areas with a lower silica content, as well as beneficiation testing. The results of exploration carried out after ML 7031 was granted are confidential.

In 2004, Alcan carried out a drilling program to better define the bauxite resources in the area.

The Ducie-Wenlock resource was combined with the Weipa Resource reported by Rio Tinto from 2009 onwards (BR 9569).

Web Page

http://www.riotintoalcan.com/

A Summary of Major Mineral Resources, Mines and Projects, 2016

478664 EAST END

OPERATING MINE

Descriptive Location: 6KM E OF BRACEWELL, BAJOOL AREA, 30KM NW OF GLADSTONE.

1:100 000 sheet Number and Name: 9050 BAJOOL

Grid Reference: Zone 56 291979 mE 7357939 mN Latitude -23.8765 Longitude 150.9570 Date Recorded: 8/February/2017

Other Names for Deposit / Mine

Commodities Size Definition

LIMESTONE LARGE >10 000 000 tonnes LST

CLAY MEDIUM 200 000 - 20 000 000 tonnes CY

Production Details

Period: 1-Jul-1996 to 30-Jun-2016

LIMESTONE CRUSHED ROCK 35,772,779.6 tonnes CLAY 4,579,083.3 tonnes

Published Reserves/Resources

EAST END

INFERRED MINERAL RESOURCE

120,000,000 Tonnes LIMESTONE

Resource estimate 20th April, 1999, pers com. Mr Len Walker.

Resource figures listed above are NOT JORC compliant.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

Mining commenced at this location.

2003 Cement Australia (company formed from merger)

Mining Operations Comments

OPEN CUT MINING

Tenure Typ	oe/Number	SHARE	Company Name/Surname	
ML	3631	100.00%	CEMENT AUSTRALIA (EXPLORATION) PTY LTD	
ML	3659	100.00%	CEMENT AUSTRALIA (EXPLORATION) PTY LTD	
ML	80002	100.00%	CEMENT AUSTRALIA (EXPLORATION) PTY LTD	
ML	80009	51.00%	POPENIA	William John
ML	80009	41.00%	POPENIA	Walter John
ML	80009	8.00%	ZAKARIAN	Gaguik
ML	80127	100.00%	CEMENT AUSTRALIA (EXPLORATION) PTY LTD	
ML	80156	100.00%	CEMENT AUSTRALIA (EXPLORATION) PTY LTD	

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

MOUNT HOLLY SUBPROVINCE Erebus beds / SILURIAN to EARLY DEVONIAN

Deposit Model

GENERAL OREBODY MODEL SEDIMENT-HOSTED DEPOSIT

DETAILED OREBODY MODEL LIMESTONE DEPOSIT

Mineralisation Age

ORE SILURIAN to EARLY DEVONIAN

Comments

Cement Australia has applied for ML 80156 to cover a planned south-east extension to the quarry. This lease covers an inferred resource of 80Mt limestone and mining is anticipated to commence by 2014.

East End is the largest limestone mining operation in Queensland. Limestone and clay are mined from the Lower Devonian Erebus beds from a large open cut and transported 12km by a Queensland Rail constructed rail link loop to the Fisherman's Landing Plant

The quarry supplies limestone for cement manufacture at Cement Australia (Queensland) Ltd's processing plant 12km north of Gladtone.

2012 existing mine infrastructure includes rail loops & railways to Gladstone, a rail loading plant.

Web Page

http://www.cemaust.com.au/

A Summary of Major Mineral Resources, Mines and Projects, 2016

508995 EIDSVOLD SILTSTONE

OPERATING MINE

Descriptive Location: 13.91 KM SE OF EIDSVOLD, 269.08 KM NW OF BRISBANE.

1:100 000 sheet Number and Name: 9147 EIDSVOLD

Grid Reference: Zone 56 320332 mE 7180780 mN Latitude -25.4791 Longitude 151.2127 Date Recorded: 9/February/2017

Other Names for Deposit / Mine

CommoditiesSizeSize DefinitionSANDSTONEVERY SMALL<10 000 tonnes SST</td>

Production Details

Period: 1-Jul-2002 to 30-Jun-2016

SANDSTONE 2,535.0 tonnes

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations

Tenure Type/NumberSHARECompany Name/SurnameML80091100.00%EIDSVOLD SILTSTONE PTY LTDML80106100.00%EIDSVOLD SILTSTONE PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

MULGILDIE BASIN Evergreen Formation / EARLY JURASSIC to EARLY JURASSIC

Deposit Model

GENERAL OREBODY MODEL SEDIMENT-HOSTED DEPOSIT

Mineralisation Age

ORE

Comments

A small tile cutting and landscaping rock producer. Waste material being used for road base and tumbled into pebbles for landscaping creating effectively a zero waste mining operation.

Web Page

www.eidsvoldsiltstone.com

A Summary of Major Mineral Resources, Mines and Projects, 2016

494046 **ELOISE**

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 157 KM EAST OF MT ISA, 56.4 KM ESE OF CLONCURRY

1:100 000 sheet Number and Name: 7056 CLONCURRY

Grid Reference: Zone 54 497980 mE 7683016 mN Latitude -20.9533 Longitude 140.9806 Date Recorded: 25/January/2017

Other Names for Deposit / Mine

Eloise Deeps - Lode B

Levuka Lode - Lode B

Lode A

40 Lode

42 Lode

45 Lode

Commodities **Size Definition** Size

COPPER MEDIUM 50 000 - 250 000 tonnes CU

GOLD SMALL 0.5 - 5 tonnes AU SILVER **SMALL** 5 - 500 tonnes AG

Production Details

Period: 1-Jul-1996 30-Jun-2001 2,353,692 tonnes SULPHIDE ORE

METAL COPPER 95,106.0 tonnes 4.04 percent

SILVER 25,548.9 kilograms 10.85 grams per tonne **GOLD** FINE 1,636.8 kilograms 0.69 grams per tonne

Period: 1-Jul-2001 30-Jun-2002 551,590 tonnes SULPHIDE ORE

COPPER METAL 16,173.0 tonnes 266.3 kilograms

GOLD BULLION

30-Jun-2005 Period: 1-Jul-2002 to

COPPER CONCENTRATE 55,143.4 tonnes SILVER 3.4 kilograms

GOLD FINE 649.8 kilograms

1-Jul-2005 30-Jun-2016 Period:

METAL **COPPER** 112,765.0 tonnes FINE **GOLD** 2,031.9 kilograms SILVER 22,976.8 kilograms

Published Reserves/Resources

BR 9807 Published in 2009 ELOISE

INDICATED MINERAL RESOURCE 2,816,000 tonnes Ore @

3.10 % COPPER FOR 87,296 Tonnes COPPER 9.80 g/t SILVER FOR 27,596 Kilograms SILVER 0.80 g/t GOLD **FOR** 2,252 Kilograms GOLD

Comments/Cut Off Factor: Includes probable reserves of 2.4Mt at 2.6% Cu, 9.3g/t Ag and 0.7g/t Au.

A 2016 resource is quoted but not confirmed as JORG compliant

BR 9807 Published in 2009

INFERRED MINERAL RESOURCE 400,000 tonnes Ore @

3.00 % COPPER **FOR** 12,000 Tonnes COPPER 10.90 g/t SILVER **FOR** 4,360 Kilograms SILVER 1.00 g/t GOLD **FOR** 400 Kilograms GOLD

Resource figures listed above are JORC compliant

Title Source **Published Reference ID** Year Author

BR 9807 2009 BREAKAWAY ANNUAL REPORT 2009 ANNOUNCEMENT TO THE AUSTRALIAN SECURITIES RESOURCES LIMITED

EXCHANGE, 2009. BREAKAWAY RESOURCES LIMITED, PERTH.

A Summary of Major Mineral Resources, Mines and Projects, 2016

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Year Commence 1986	ed to	Year Completed 1992	Comments Discovery (BHP Minerals Ltd) from aeromagnetic anomaly. Eloise North (Maronan) discovered 4 years later in 1992.
1995	to	2003	Mined by Amalg Resources N.L. with production beginning in May 1996. Amalg merged with Breakaway Resources Ltd.
2004			Barminco Investments Pty Ltd acquired the deposit in February 2004. Breakaway Resources retain a 30% net profit royalty.
2008	to	2010	Under care and maintenance
2011			restart of mining operations (Breakaway Resources)

Mining Operations	Comments
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DECLINED SHAFTS/DRIVES

At 1072m depth in 2005/06.

UNDERGROUND MINING METHODS

STOPING

Tenure Typ	e/Number	SHARE	Company Name/Surname
ML	90064	100.00%	FMR INVESTMENTS PTY LIMITED
ML	90080	100.00%	FMR INVESTMENTS PTY LIMITED
ML	90086	100.00%	FMR INVESTMENTS PTY LIMITED
ML	90155	100.00%	FMR INVESTMENTS PTY LIMITED

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

SOLDIERS CAP DOMAIN Toole Creek Volcanics / PALAEOPROTEROZOIC to

PALAEOPROTEROZOIC

Deposit Model

GENERAL OREBODY MODEL HYDROTHERMAL VEINS/PIPE/STOCKWORK

DETAILED OREBODY MODEL IRON-OXIDE CU-AU (-U-REE)

Mineralisation Age

ORE MESOPROTEROZOIC Ar40/Ar39 age dating constrains mineralisation to ~1530 to 1514 Ma (EGRU newsletter 2000).

Comments

Eloise is a blind deposit concealed by 60 to 70m of sediments of the Eromanga Basin, on the eastern margin of the Mount Isa Inlier.

The mineralisation comprises high-grade chalcopyrite + pyrrhotite hosted by mafic silicate alteration localised on a major shear zone (Levuka Shear Zone). Alteration and mineralisation are controlled by both ductile and brittle structures.

Recent drilling at Eloise Deeps has identified another mineralised body (the Eastern Lode) to the east of the B Lode. This has increased resources, extending the mine life.

Breakaway Resources Ltd sold the mine to Barminco Investments Pty Ltd (now FMR Investments Pty Ltd) in February 2004, but retained a 30% net profit royalty interest in the mine and surrounding lease areas.

At the end of 2006, production was at 100m below the surface, with the deposit drilled to 200m below the production level. Exploration below the currently known mineralised extent is continuing.

Increased resource and reserve estimates announced in July 2008 provide a 4 to 5 year mine life. A A\$3M expansion has commenced to increase throughput to about 740,000tpa.

The mill was successfully recomissioned in May 2011 (BR9774).

A 2016 resource was mentioned, but no confirmation was given if the resource is valid or what categoriy the resource would be assigned to a specific category. The resource is 2.3 Mt at 2,1 % copper

Following a rock failure in a portion of the main production stope in late 2008, Breakaway Resources Ltd announced that it would take 2-3 months to carry out remedial action.

In view of low copper prices, the mine owner FMR Investments Pty Ltd decided to cease all mining operations and place the mine on temporary care and maintenance in late 2008. The mine reopened in January 2011.

Details of the ore reserves and mine life are not available. Minotaur Exploration Ltd have stated that the Eloise deposit is now known to have an original resource prior to mining of 10 Mt at 3.2% copper and 0.7 g/t gold.

Web Page

http://www.minotaurexploration.com.au/; http://www.fmrinvestments.com.au/

A Summary of Major Mineral Resources, Mines and Projects, 2016

38227 ELY

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 24.9KM NORTH OF WEIPA AIRSTRIP, 590KM NW OF CAIRNS.

1:100 000 sheet Number and Name: 7273 PENNEFATHER RIVER

Grid Reference: Zone 54 596622 mE 8622566 mN Latitude -12.4586 Longitude 141.8891 Date Recorded: 19/January/2017

Other Names for Deposit / Mine

Alcan

Ely South

Stormont

Egmont

Ely North

Ely East

Commodities Size Definition

BAUXITE SMALL 100 000 - 100 000 000 tonnes BX

Production Details

Period: 1-Jul-2006 to 30-Jun-2014

BAUXITE 36,441,343.0 tonnes

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID Year Author Title Source

BR 9569 2009 RIO TINTO PLC 2009 ANNUAL REPORT. RIO TINTO PLC, LONDON.

HTTP://WWW.RIOTINTO.COM/SH AREHOLDERS/219_REPORTS.ASP

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations

Tenure Type/Number SHARE Company Name/Surname

ML 7031 100.00% ALCAN SOUTH PACIFIC PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

KARUMBA BASIN Bulimba Formation / EARLY TERTIARY to EARLY TERTIARY

Deposit Model

GENERAL OREBODY MODEL RESIDUAL DEPOSIT
DETAILED OREBODY MODEL LATERITIC BAUXITE

Mineralisation Age

ORE CENOZOIC

Comments

Bauxite occurs as pisolites in a soft grained matrix. The pisolites range in diameter from 2 to 25mm and, in the better grade areas, are typically well rounded.

The bauxite varies in colour from light buff to brown in the high alumina material to a darker red brown in the more ferruginous and usually high silica material.

In 1998, Alcan entered into an exchange agreement with Comalco for the joint development of the Ely bauxite. The deposit was incorporated into Comalco's Weipa mine plan, with mining forecast for 2010.

However, Rio Tinto Aluminium Weipa (formally Comalco) commenced mining in January 2007 in order to meet Alcan's needs for bauxite at the Gladstone alumina refinery (with a 25 year mine life).

In October 2007 Rio Tinto took over Alcan Inc and formed a subsidary called Rio Tinto Alcan, combining Alcan's and Rio Tinto Aluminium's operations and resources.

Web Page

www.riotinto.com/riotintoalcan/

A Summary of Major Mineral Resources, Mines and Projects, 2016

493673 EMPIRE

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: ~3KM W OF CRACOW, ~175KM SE OF GLADSTONE.

1:100 000 sheet Number and Name: 8947 CRACOW

Grid Reference: Zone 56 224300 mE 7202000 mN Latitude -25.2730 Longitude 150.2625 Date Recorded: 20/May/2015

Other Names for Deposit / Mine

Cracow Gold Mine Group

CommoditiesSizeSize DefinitionGOLDSMALL0.5 - 5 tonnes AU

Production Details

Published Reserves/Resources

BR 10019 Published in 2012

INFERRED MINERAL RESOURCE 474,000 tonnes Ore @

6.10 g/t GOLD FOR 2,891 Kilograms GOLD

474000t at 6.1g/t Au (recorded at main site 501301)

EMPIRE

Resource figures listed above are JORC compliant.

Published Reference ID Year Author Title

BR 10019 2012 EVOLUTION MINING EVOLUTION MINING MINERAL LIMITED RESOURCE STATEMENT - JUNE

RESOURCE STATEMENT - JUNE

2012

SECURITIES EXCHANGE. 25

SEPTEMBER 2012. EVOLUTION

MINING LIMITED, MELBOURNE.

Source

REPORT TO THE AUSTRALIAN

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations Comments

UNDERGROUND MINING METHODS

Tenure Type/Number SHARE Company Name/Surname
ML 80089 100.00% LION MINING PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

AUBURN SUBPROVINCE Camboon Volcanics / LATE CARBONIFEROUS to EARLY PERMIAN

Deposit Model

Mineralisation Age

ORE EARLY PERMIAN

Comments

The company gave development approval in August 2002. Mining commenced in 2005 with decline access for mining the high-grade Royal, Crown and Klondyke North shoots.

The mineralisation is amenable to conventional cyanide leach extraction after fine grinding, with average recoveries of 94.3% of the gold.

Drilling to the south of the Kilkenny resource in 2008 resulted in the discovery of a new zone of high-grade gold mineralisation.

Resource definition drilling produced encouraging results from the Roses Pride and Empire structures.

The mine is now held by Evolution Mining Limited (since 2011). Production figures are reported in the Cracow Gold Mine site.

Production from ML80089 reported against Cracow Gold Mine SI #501301

Web Page

www.evolutionmining.com.au

A Summary of Major Mineral Resources, Mines and Projects, 2016

493561 EMU APPLE CREEK

OPERATING MINE

Descriptive Location: 47 KM SOUTH WEST OF CARMILLA, ON OLD BRUCE HIGHWAY, 280KM NW OF GLADSTONE.

1:100 000 sheet Number and Name: 8753 CONNORS RANGE

Grid Reference: Zone 55 710906 mE 7547899 mN Latitude -22.1612 Longitude 149.0452 Date Recorded: 8/February/2017

Other Names for Deposit / Mine

Commodities Size Definition

EARTHY LIME / DOLOMITE (AGRICULTURAL) MEDIUM 100 000 - 1 000 000 tonnes ELIM

Production Details

Period: 1-Jul-2008 to 30-Jun-2016

EARTHY LIME / DOLOMITE (AGRICULTURAL) 12,402.0 tonnes

Published Reserves/Resources

Company Report 28305 Published in 1996

INFERRED MINERAL RESOURCE 103,531 tonnes Ore @

103,531 Tonnes EARTHY LIME / DOLOMITE (AGRICULTURAL)

Comments/Cut Off Factor: At 87%% neutralising value.

Includes 73950t at 80 to 90% netralising value; 29580t at 90% neutralising value).

Resource figures listed above are NOT JORC compliant.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations Comments

OPEN CUT MINING

Tenure Typ	oe/Number	SHARE	Company Name/Surname
ML	4776	75.00%	CQ DOLOMITE PTY LTD
ML	4776	25.00%	MACEGATE PTY LIMITED
ML	4783	75.00%	CQ DOLOMITE PTY LTD
ML	4783	25.00%	MACEGATE PTY LIMITED

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

CONNORS SUBPROVINCE Mount Benmore Volcanics / EARLY PERMIAN to EARLY PERMIAN

Deposit Model

GENERAL OREBODY MODEL RESIDUAL DEPOSIT

DETAILED OREBODY MODEL ENRICHED LIME DEPOSIT

Mineralisation Age

ORE CENOZOIC

Comments

Earthy lime has formed through the decomposition of andesites in the Camboon Volcanics.

Web Page

A Summary of Major Mineral Resources, Mines and Projects, 2016

486727 ENTERPRISE

OPERATING MINE

Descriptive Location: WESTERN CENTRAL HIGH DUNES OF NTH STRADBROKE ISLAND, 45KM EAST OF BRISBANE.

1:100 000 sheet Number and Name: 9542 BEENLEIGH

Grid Reference: Zone 56 545236 mE 6949957 mN Latitude -27.5734 Longitude 153.4583 Date Recorded: 6/February/2017

Other Names for Deposit / Mine

Herring-Enterprise

 Commodities
 Size
 Size Definition

 RUTILE
 LARGE
 >500 000 tonnes RUT

 ZIRCON
 LARGE
 >1 000 000 tonnes ZIR

ILMENITE MEDIUM 5 000 000 - 10 000 000 tonnes IM

MONAZITE VERY SMALL <200 tonnes MZ

Production Details

Period: 1-Jul-1996 to 30-Jun-2016

 RUTILE
 778,427.0 tonnes

 ZIRCON
 752,686.0 tonnes

 ILMENITE
 19,462,922.0 tonnes

 LEUCOXENE
 7.800.0 tonnes

Published Reserves/Resources

BR 8476 Published in 2006 ENTERPRISE - DREDGE

INDICATED MINERAL RESOURCE 205,200,000 tonnes Ore @

0.33 % ILMENITE FOR 685,368 Tonnes ILMENITE 0.09 % RUTILE FOR 188,784 Tonnes RUTILE 0.08 % ZIRCON FOR 160,056 Tonnes ZIRCON

Comments/Cut Off Factor: 0.8% heavy minerals cut off.

BR 8476 Published in 2006 ENTERPRISE - DREDGE

MEASURED MINERAL RESOURCE 761,800,000 tonnes Ore @

 0.46 % ILMENITE
 FOR
 3,473,808 Tonnes ILMENITE

 0.12 % RUTILE
 FOR
 937,014 Tonnes RUTILE

 0.10 % ZIRCON
 FOR
 792,272 Tonnes ZIRCON

Comments/Cut Off Factor: 0.8% heavy minerals cut off. Includes proved 355.8Mt at 0.96% & probable 190.5Mt at 0.8%.

BR 8476 Published in 2006 ENTERPRISE - DRY MINE

INDICATED MINERAL RESOURCE 31,800,000 tonnes Ore @

 0.52 % ILMENITE
 FOR
 166,632 Tonnes ILMENITE

 0.16 % RUTILE
 FOR
 50,880 Tonnes RUTILE

 0.13 % ZIRCON
 FOR
 39,750 Tonnes ZIRCON

Comments/Cut Off Factor: 0.9% heavy minerals cut off.

BR 8476 Published in 2006 ENTERPRISE - DRY MINE

INFERRED MINERAL RESOURCE 22,200,000 tonnes Ore @

 0.61 % ILMENITE
 FOR
 135,642 Tonnes ILMENITE

 0.17 % RUTILE
 FOR
 37,518 Tonnes RUTILE

 0.14 % ZIRCON
 FOR
 31,746 Tonnes ZIRCON

Comments/Cut Off Factor: 1.0% heavy minerals cut off.

BR 8476 Published in 2006 ENTERPRISE - DRY MINE

MEASURED MINERAL RESOURCE 45,800,000 tonnes Ore @

 0.62 % ILMENITE
 FOR
 282,128 Tonnes ILMENITE

 0.17 % RUTILE
 FOR
 77,860 Tonnes RUTILE

 0.14 % ZIRCON
 FOR
 65,952 Tonnes ZIRCON

Comments/Cut Off Factor: 0.9% heavy minerals cut off. Includes proved 26.3Mt at 1.41% and probable 11.6Mt at 1.33%.

Resource figures listed above are JORC compliant.

Published Reference ID Year Author Title Source

BR 8476 2006 CONSOLIDATED RUTILE ANNUAL REPORT 2006. CONSOLIDATED RUTILE LIMITED, BRISBANE.

Major Mining Related Events

Year Commenced Year Completed Comments

A Summary of Major Mineral Resources, Mines and Projects, 2016

Mining Operations

Comments

OPEN CUT MINING

DREDGING

Tenure Typ	e/Number	SHARE	Company Name/Surname
ML	1103	100.00%	STRADBROKE RUTILE PTY LTD
ML	1105	100.00%	STRADBROKE RUTILE PTY LTD
ML	1117	100.00%	STRADBROKE RUTILE PTY LTD
ML	1119	100.00%	STRADBROKE RUTILE PTY LTD
ML	1120	100.00%	STRADBROKE RUTILE PTY LTD
ML	1130	100.00%	STRADBROKE RUTILE PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

MODERN COASTAL DEPOSITS

Deposit Model

GENERAL OREBODY MODEL DUNE DEPOSIT

DETAILED OREBODY MODEL DUNE DEPOSIT HEAVY MINERALS

Mineralisation Age

ORE HOLOCENE to PLEISTOCENE

Comments

Consolidated Rutile operates two heavy minerals sands mines on North Stradbroke Island. The sands are mined via a floating dredge on an artificial pond. The dredge uses a rotating cutter to loosen sands for processing and a floating concentrator.

The heavy minerals are then separated using a gravity separation process through a series of water-fed spirals. The ilmenite is then separated using wet high intensity magnetic separators.

An average of five 1800t loads of mineral concentrates are transported weekly by barge to the dry mill located at Pinkenba for final separation.

In 2009 Sibelco acquired all CRL assets.

Web Page

http://www.sibelco.com.au

A Summary of Major Mineral Resources, Mines and Projects, 2016

493641 ERNEST HENRY

OPERATING MINE

Descriptive Location: 38KM NE OF CLONCURRY IN NORTH-WEST, 125KM EAST OF MT ISA.

1:100 000 sheet Number and Name: 7057 CLONAGH

Grid Reference: Zone 54 469270 mE 7739476 mN Latitude -20.4429 Longitude 140.7054 Date Recorded: 31/January/2017

Other	Names	for D)eposit	/ Mine
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Commodities	Size	Size Definition	_
COPPER	GIANT	>2 000 000 tonnes CU	
GOLD	LARGE	50 - 150 tonnes AU	
MAGNETITE	LARGE	>1 000 000 tonnes MT	
COBALT	VERY SMALL	<10 tonnes CO	
MOLYBDENUM	VERY SMALL	<50 tonnes MO	
URANIUM	VERY SMALL	<100 tonnes U	
RARE EARTH ELEMENTS	VERY SMALL	<1 tonne REE	

Production Details

Period: 1-Jul-1997 to 30-Jun-2016 132,003,343 tonnes HARD ROCK ORE (OR REEF)

 COPPER
 METAL
 1,483,556.0 tonnes

 GOLD
 BULLION
 51,586.9 kilograms

 GOLD
 FINE
 1,590.0 kilograms

 SILVER
 14,121.2 kilograms

 Period:
 1-Jan-2011
 to 30-Dec-2014

IRON 778.801.0 tonnes

Published Reserves/Resources

BR 10502 Published in 2016 ERNEST HENRY UNDERGROUND

INDICATED MINERAL RESOURCE 71,000,000 tonnes Ore @

1.15 % COPPER FOR 816,500 Tonnes COPPER 0.59 g/t GOLD FOR 41,890 Kilograms GOLD

Comments/Cut Off Factor: not quoted in 2014

Includes probable reserve of 53.3Mt at 1.0% Cu, 0.52g/t Au. Probable reserve within combined meas and ind

resource. As at 31 Dec 2014.

BR 9808 Published in 2011 ERNEST HENRY UNDERGROUND

INDICATED MINERAL RESOURCE

19,880,000 Tonnes MAGNETITE

Calculated from 71 Mt at 28% magnetite

BR 10502 Published in 2016 ERNEST HENRY UNDERGROUND

INFERRED MINERAL RESOURCE 9,000,000 tonnes Ore @

1.10 % COPPER FOR 99,000 Tonnes COPPER 0.50 g/t GOLD FOR 4,500 Kilograms GOLD

Comments/Cut Off Factor: not quoted in 2014

BR 9808 Published in 2011 ERNEST HENRY UNDERGROUND

INFERRED MINERAL RESOURCE

3,380,000 Tonnes MAGNETITE

Calculated from 13 Mt at 26% magnetite

BR 9808 Published in 2011 ERNEST HENRY UNDERGROUND

MEASURED MINERAL RESOURCE

1,280,000 Tonnes MAGNETITE

Calculated from 4 Mt at 32% magnetite

BR 10502 Published in 2016 ERNEST HENRY UNDERGROUND

MEASURED MINERAL RESOURCE 16,100,000 tonnes Ore @

1.29 % COPPER FOR 207,690 Tonnes COPPER
 0.67 g/t GOLD FOR 10,787 Kilograms GOLD

Comments/Cut Off Factor: not quoted in 2014

Includes proved reserve of 11Mt at 1.14% Cu, 0.59g/t Au. Probable reserve within combined meas and ind

resource. As at 31 Dec 2014.

Resource figures listed above are JORC compliant.

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Published Reference ID	Year Author	Title	Source
BR 10502	2016 EVOLUTION MINING	MINERAL RESOURCES AND	HTTP://EVOLUTIONMINING.COM
	LIMITED	ORE RESERVES STATEMENT -	.AU/RESERVESRESOURCES/ 24
		DEC 2015 (UPDATED 24	AUGUST 2016. EVOLUTION
		AUGUST 2016)	MINING LIMITED, MELBOURNE.
BR 9808	2011 XSTRATA PLC	XSTRATA MINERAL	WWW.XSTRATA.COM/CONTENT/
		RESOURCES AND ORE	ASSETS/PDF/X_RESERVES_RESO
		RESERVES AS AT 31	URCES
		DECEMBER 2011.	

Major Mining Related Events

Year Commenced Year Completed Comments

to 1991 Ernest Henry copper-gold deposit discovered in 1991.

Operating Mine Life: 1997 to 2012 First ore produced in 1997. Mining by Ernest Henry Mining Pty Ltd with commercial production commencing in May 1998. Mine life is 8 years as at December 2004. Mine life may extend with underground development

develo	opment.					
Mining Operations				Comments		
OPEN	CUT MINING			The processing facility for this mine is one of the largest mills and flloation cells in the world. Open cut was 180m deep in June 2000, planned to be 1,300m in diameter at 570m deep when mining completed. Open cut will become a lake.		
Tenure Ty	pe/Number	SHARE	Company Name/Surname			
ML	2671	100.00%	ERNEST HENRY MINING	PTY LTD		
ML	90041	100.00%	ERNEST HENRY MINING	PTY LTD		
ML	90072	100.00%	ERNEST HENRY MINING	PTY LTD		
ML	90075	100.00%	ERNEST HENRY MINING	PTY LTD		
ML	90085	100.00%	ERNEST HENRY MINING	PTY LTD		
ML	90100	100.00%	ERNEST HENRY MINING	PTY LTD		
ML	90107	100.00%	ERNEST HENRY MINING	PTY LTD		
ML	90116	100.00%	ERNEST HENRY MINING	PTY LTD		
Struct	k/Cover Sequenc ural Unit STANTINE DOM.		Formation Nan Mount Fort Co PALAEOPRO	onstantine Volcanics / PALAEOPROTEROZOIC to		
Deposit M	odel					
GENE	ERAL OREBODY	MODEL	BRECCIA-HOSTED			
DETA	ILED OREBODY	MODEL	IRON-OXIDE CU-AU	J (-U-REE)		
Mineralisa	ntion Age					
ORE		MESOPROT	TEROZOIC	~1510 to 1500 Ma. Ore is mainly hosted in an infill-supported hydrothermal breccia that grades to veining at the margins. Ore largely composed of magnetite, calcite, pyrite, biotite, K-feldspar, chalcopyrite, garnet, barite, fluorite, quartz & molybdenite		

A Summary of Major Mineral Resources, Mines and Projects, 2016

Comments

The mineralisation at Ernest Henry is developed in a SE dipping, S to SSE plunging body of altered and variably brecciated felsic volcanic rocks. The ore assemblage of the primary zone is dominated by chalcopyrite within a magnetite-carbonate gangue.

Copper and gold ratios are very consistent throughout the deposit. Gold occurs in the chalcopyrite crystal lattice. Supergene mineralisation is complex, with copper occurring as native copper, bornite, chalcocite and secondary chalcopyrite.

Ernest Henry produces copper concentrates (containing gold) that are trucked to Mount Isa for smelting or sent to Townsville for export. In 2005/06, Cu and Au head grades were 24% lower, in line with the mine plan.

In November 2007, Barminco was awarded the contract to develop a 3.2km decline at the mine as part of Xstrata's plan to convert the mine to an underground operation.

On 3 December 2009, Xstrata announced approvals for a total investment of US\$542 million to extend the life of the Ernest Henry mine until at least 2024. The open pit operations will be converted to underground and a magnetite extraction plant constructed

Construction of the underground mine commenced in the first half of 2010, with first production in late 2011 and full scale operation from early 2013. First underground ore mining from the access decline commenced Dec 2012

Construction of the magnetite plant commenced in the first half of 2010, with commissioning by the beginning of 2011. Magnetite was produced until a business review resulted in the suspension of magnetite production in July 2013.

First shipment of magnetite ore from Ernest Henry to the Asian steel industry was reported in the media (North West Star, 15 June 2011). Stockpiles at Ernest Henry mine were set to produce 1.2Mt of magnetite concentrate per year

In 2012 Xstrata reported that Cu in concentrate production at Ernest Henry increased by 34% compared to 2010 to reach a total of 100300t. Production from the final high grade ore zone of the open pit operation and processing stockpiled ore boosted volumes

In 2012 project is ongoing to convert mining operations into an underground mine (BR9789). XSTRATA recognised improved ore grades at Ernest Henry largely offsetting lower head grades at other international operations.

In 2012 Xstrata reported that the open cut ore reserve was depleted by 17Mt of ore @ 1.0%Cu, 0.5g/t Au. Mining of the open cut fully depleted the reserves and resources by December 2011 (BR9808).

In August 2016 Evolution has acquired a 30% stake in Glencore's Ernest Henry operation: Evolution will also acquire 100% of future gold production and 30% of future Cu and Ag production under an agreed 11-year life-of-mine model. magnetite resources will be mined and probably end up on a stockpile.

In late 2013 Glencore reported a current expected mine life of 13 years (within the life of the current mining teneure, due to expire in 2026 (BR10304). Even though magnetite is no longer reported as a resource material containing some of the 2011

Web Page

http://www.glencorexstrata.com/

A Summary of Major Mineral Resources, Mines and Projects, 2016

43683 FAIRCHANCE

OPERATING MINE

Descriptive Location: 12.0 KM SE OF MOUNT MOLLOY.

1:100 000 sheet Number and Name: 7964 RUMULA

Grid Reference: Zone 55 329834 mE 8146350 mN Latitude -16.7596 Longitude 145.4035 Date Recorded: 16/February/2017

Other Names for Deposit / Mine

Fair Chance The Bluff Yalkula

Mount Molloy Lime

Commodities Size Definition

LIMESTONE SMALL 100 000 - 2 000 000 tonnes LST

Production Details

Period: 1-Jan-1900 to 31-Dec-1995

LIMESTONE CRUSHED ROCK 60,800.0 tonnes

Period: 1-Jul-2000 to 30-Jun-2015

LIMESTONE CRUSHED ROCK 166,721.8 tonnes

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

1900 to 1957 Intermittent quarrying for use as flux in the Mount Molloy copper smelter.

2000 Quarried for crushed limestone by MJ Wilkins.

Mining Operations Comments

OPEN CUT MINING

Tenure Type/Number Company Name/Surname Christian Name SHARE ML4828 WILKINS Maxwell John 33.00% ML4828 33.00% WILKINS Robert James WILKINS Russell Ross ML 4828 33.00%

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

HODGKINSON PROVINCE Hodgkinson Formation/l / EARLY DEVONIAN to LATE DEVONIAN

Deposit Model

GENERAL OREBODY MODEL SEDIMENT-HOSTED DEPOSIT

DETAILED OREBODY MODEL LIMESTONE DEPOSIT

Mineralisation Age

ORE MIDDLE DEVONIAN

Comments

This deposit has been sporadically quarried since the turn of the century, at which time the limestone was used in the Mount Molloy copper smelter. The deposit comprises a solitary bluff of pale grey recrystallised limestone.

The limestone is pure, amorphous, and retains no evidence of bedding.

Web Page

A Summary of Major Mineral Resources, Mines and Projects, 2016

479535 FAR FANNING

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 100 KM SOUTH-WEST OF TOWNSVILLE.

1:100 000 sheet Number and Name: 8158 DOTSWOOD

Grid Reference: Zone 55 434215 mE 7825170 mN Latitude -19.6676 Longitude 146.3724 Date Recorded: 1/February/2017

Other Names for Deposit / Mine

Dotswood Gold Project

Dotswood

Dotswoo	Ju							
Commodities					Size		Size Definition	
GOLD					MEDIUM		5 - 50 tonnes AU	
SILVER					VERY SMALL		<5 tonnes AG	
Production De	tails							
Period:	1-Jan-1865	to	31-Dec-1908		3,756	tonnes HARD ROC	K ORE (OR REEF)	
GOLD				BULLION	79.6 kilogram	ns		
Period:	1-Jul-1986	to	30-Jun-1987		360,000	tonnes HARD ROC	K ORE (OR REEF)	
GOLD				BULLION	335.9 kilograi	ms		
Period:	1-Jul-1999	to	30-Jun-2000					
GOLD				BULLION	29.5 kilogram	ns		
Period:	1-Jul-2000	to	30-Jun-2001		_			
GOLD				FINE	176.4 kilograi	ms		
SILVER					64.0 kilogram	ns		
Period:	1-Jul-2001	to	30-Jun-2002		66,283	tonnes HARD ROC	K ORE (OR REEF)	
GOLD				BULLION	294.6 kilograi	ms	4.25 grams per tonne	
Period:	1-Jul-2002	to	30-Jun-2003		74,535	tonnes HARD ROC	K ORE (OR REEF)	
GOLD				BULLION	396.1 kilograi	ms	5.15 grams per tonne	
Period:	1-Jul-2004	to	30-Jun-2005		_			
GOLD				BULLION	714.0 kilograi	ms		

Published Reserves/Resources

Period:

GOLD

SILVER

BR 10503 Published in 2009

1-Jul-2005

FAR FANNING

FINE

INDICATED MINERAL RESOURCE 2,835,036 tonnes Ore @

1.83 g/t GOLD **FOR** 5,188 Kilograms GOLD

3.6 kilograms

3.9 kilograms

Comments/Cut Off Factor: Cutoff Grade of 0.5 g/t Au

30-Jun-2006

Resource figures listed above are JORC compliant.

Published Reference ID BR 10503	Year Author 2009 NORTH QUEENSLAND METALS LTD	Title ASX ANNOUNCEMENT: DOTSWOOD UPDATE	Source ANNOUNCEMENT TO THE AUSTRALIAN SECURITIES EXCHANGE, 06 OCTOBER 2009. NORTH QUEENSLAND METALS LTD, BRISBANE.			
Major Mining Related Events						

			NORTH QUEENSLAND METALS LTD, BRISBANE.
Major Mining I	Relate	d Events	
Year Commen	ced	Year Completed	Comments
1866	to	1909	Gold first located in 1866 with most production occurring between 1895 and 1908.
1866	to	1866	Discovery of gold at Far Fanning by T. Cook.
1927	to	1927	Battery repaired and recommissioned.
1986	to	1987	Heap leach mining operation of oxide ore by North Queensland Co between June 1986 and September 1987.
2000	to	2005	Mining by SMC Resources Ltd commenced January 2000 but wet weather stopped operations until June 2000. Mining ceased in underground operations in April 2005
2003	to	2003	Underground operation commenced in the June quarter, 2003, to mine a remnant block in the western end of the main pit. The decline intersected ore in September 2003.
2003	to	2003	At the end of the March quarter, 2003, open cut operation were completed.

A Summary of Major Mineral Resources, Mines and Projects, 2016

Mining Operations Comments

OPEN CUT MINING Planned to be 50m deep with a strip ratio of 6:1 (waste:ore).

UNDERGROUND MINING METHODS

DECLINED SHAFTS/DRIVES Spiral decline commenced during the March quarter 2003.

Decline has accessed ore on two level only before being

abandoned due to bad ground conditions.

Tenure Type/Number		SHARE	Company Name/Surname
ML	1349	100.00%	BUSH OASIS PTY LTD
ML	1350	100.00%	BUSH OASIS PTY LTD
ML	1351	100.00%	BUSH OASIS PTY LTD
ML	1437	100.00%	BUSH OASIS PTY LTD
ML	1438	100.00%	BUSH OASIS PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

BURDEKIN BASIN Julia Formation / LATE DEVONIAN to LATE DEVONIAN

Deposit Model

GENERAL OREBODY MODEL MESOTHERMAL VEINS/PIPE/STOCKWORK STOCKWORK

DETAILED OREBODY MODEL MESOTHERMAL VEINS, MAGMATIC-RELATED

Mineralisation Age

ORE CARBONIFEROUS to PERMIAN Similar vein mineral assemblage as Ravenswood

Comments

Quartz veins with or without pyrite, chalcopyrite, sphalerite, calcite and potassium feldspar are principally hosted by quartz arenite. Ore lenses vary from 2m-20m in width and 10m-200m in length and are clustered along a known strike length of 1.7km.

Mineralisation at Far Fanning consists of multiple generations of quartz veins developed within a high level, brittle shear zone. The reverse faulting has displaced bedding across the structure forming a kink fold which hosts most mineralisation.

In the second quarter of 2009, North Queensland Metals trucked low-grade oxide ore (2-3g/t Au) to Pajingo for processing. The ore was easy to treat, despite increasing viscosity, raising reagent consumption slightly and adding coarser gold to the circuit.

Drilling in the June 2009 quarter delineated shallowly plunging mineralised zones and extensions, including narrow high-grade veins surrounded by lower grade disseminated mineralisation hosted by permeable sandstone.

Intersections included 6.9m at 6.14g/t Au from 116.5m, 5.5m at 5.07g/t Au from 74m and 0.4m at 69.4g/t Au from 152.1m.

North Queensland Metals Ltd concluded an option agreement to purchase the mine in early 2009. Commencement of mining is targeted for late 2010, pending the results of a feasibility study.

Web Page

A Summary of Major Mineral Resources, Mines and Projects, 2016

483529 FLINDERS

OPERATING MINE

Descriptive Location: IMMEDIATELY SOUTH OF FLINDERS RAIL STATION, 22.5KM S OF IPSWICH, 45KM WEST OF BRISBANE.

1:100 000 sheet Number and Name: 9442 IPSWICH

Grid Reference: Zone 56 472141 mE 6922137 mN Latitude -27.8250 Longitude 152.7171 Date Recorded: 8/December/2015

Other Names for Deposit / Mine

Area 181 & 188

Commodities	Size	Size Definition
EARTHY LIME / DOLOMITE (AGRICULTURAL)	LARGE	>1 000 000 tonnes ELIM

Production Details

Period: 1-Jan-1937 to 31-Dec-1960

EARTHY LIME / DOLOMITE (AGRICULTURAL) 91,834.0 tonnes

Period: 1-Jan-1961 to 31-Dec-1973

EARTHY LIME / DOLOMITE (AGRICULTURAL) 70,618.0 tonnes

Period: 1-Jul-1999 to 30-Jun-2015

EARTHY LIME / DOLOMITE (AGRICULTURAL) 53,672.0 tonnes

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID	Year Author	Title	Source	
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Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations	Comments
ming operations	Comments

OPEN CUT MINING Shallow opencuts into hillside.

Tenure Type/Number		SHARE	Company Name/Surname	Christian Name
ML	50138	1.00%	GILMOUR	Gordon Wallace
ML	50138	1.00%	GILMOUR	Jessie Helen Mary
ML	50138	98.00%	FLINDERS TRADING PTY LTD	

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

AMBERLEY BASIN Flinders Dolomite / EARLY TERTIARY to EARLY TERTIARY

Deposit Model

GENERAL OREBODY MODEL SEDIMENT-HOSTED DEPOSIT

DETAILED OREBODY MODEL DOLOMITE DEPOSIT

Mineralisation Age

ORE EOCENE

Comments

The dolomite is a medium-to coarse-grained mixture of carbonates containing 60% dolomite, 30% ankerite and a small amount of manganiferous siderite that overlies the Walloon Coal Measures.

Part of the Flinders dolomite deposit was mapped and tested with a program of 78 drillholes totalling 867m. The dolomite extends along a low meridional ridge over a length of about 5km and a width of 1km.

The average thickness of dolomitic material is 10m, under 0.9m of soil and clay. A bed of palygorskite clay underlies much of the dolomite.

Web Page

www.flinderstrading.com/product description.htm

A Summary of Major Mineral Resources, Mines and Projects, 2016

480042 FLYING COW

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 14.7 KM SE OF FORSAYTH. 1:100 000 sheet Number and Name: 7660 FORSAYTH

Grid Reference: Zone 54 785021 mE 7932366 mN Latitude -18.6805 Longitude 143.7021 Date Recorded: 20/May/2015

Other Names for Deposit / Mine

Ropewalk

 Commodities
 Size
 Size Definition

 GOLD
 SMALL
 0.5 - 5 tonnes AU

 SILVER
 VERY SMALL
 <5 tonnes AG</td>

 COPPER
 VERY SMALL
 <500 tonnes CU</td>

Production Details

Published Reserves/Resources

BR 9705 Published in 2011

FLYING COW

INFERRED MINERAL RESOURCE 16,300 tonnes Ore @

31.00 g/t GOLD FOR 505 Kilograms GOLD

Based on surface outcrop and interpreted continuity to 50m depth.

Resource figures listed above are JORC compliant.

Published Reference ID Year Author Title Source

BR 9705 2011 ALTIUS MINING LIMITED PROSPECTUS FOR INITIAL ALTIUS MINING LIMITED,

PUBLIC OFFERING. MELBOURNE.

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations Comments

SHAFTS

ADITS

UNDERGROUND MINING METHODS

Tenure Type/Number SHARE Company Name/Surname

ML 3418 100.00% AUSTRALIA UNITED MINING LIMITED

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

ETHERIDGE PROVINCE Lane Creek Formation / PALAEOPROTEROZOIC to

PALAEOPROTEROZOIC

Deposit Model

Mineralisation Age

Comments

This prospect was not field checked. It was delineated from rock chip samples that gave an average assay of 18.6g/t Au.

Gold mineralisation was identified in two of seven costeans where a width of 1.53 m gave an average assay of 0.5 g/t Au and 3.72 g/t Ag and a width of 1m gave an average assay of 0.5g/t Au and 3.00g/t Ag.

Percussion drill samples taken from the 34 to 36 m level gave a best average assay of 24.9g/t Au and 84g/t Ag. Mineralisation in this drillhole comprises unoxidised pyritised pyrrhotite.

The mineralisation was thought to represent an inverted "u", suggesting a saddle reef. Samples from the best mineralised interval of the core hole (35.1 to 36.15 m) assayed 0.34% Cu, 1.2g/t Au and 17g/t Ag (CR 10874).

Six percussion holes (294 m) were drilled to test the palaeoplacer potential of Mesozoic sediments in the area; results were discouraging. A down-hole applied potential survey returned ambiguous results (CR 12020).

Altius Mining commenced underground mining of the Flying Cow lode in 2009. Raises were constructed in the upper level and are being extended to the surface. A lower level adit was under construction in early 2011.

Ore has been stockpiled to supply a nearby processing mill.

Web Page

www.altiusmining.com.au

A Summary of Major Mineral Resources, Mines and Projects, 2016

543331 FLYING HORSE

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: NORTH OF MOUNT ISA, 400M WEST OF MOUNT KELLY WORKINGS

1:100 000 sheet Number and Name: 6758 MAMMOTH MINES

Grid Reference: Zone 54 305450 mE 7799075 mN Latitude -19.8948 Longitude 139.1416 Date Recorded: 9/February/2017

Other Names for Deposit / Mine

Flying Horse Deeps Flying Horse Extended

Commodities Size Size Definition

COPPER MEDIUM 50 000 - 250 000 tonnes CU

Production Details

Period: 1-Jul-2007 to 30-Jun-2015

COPPER METAL 31,638.5 tonnes

Published Reserves/Resources

BR 10433 Published in 2015 FLYING HORSE/ MK OXIDE ORE

INDICATED MINERAL RESOURCE 630,000 tonnes Ore @

0.44 % COPPER FOR 2,772 Tonnes COPPER

Comments/Cut Off Factor: 0.3% Cu cutoff

Mount Kelly (MK) resource figures included here. Incorporating mining depletion to end of December 2014.

BR 10433 Published in 2015 FLYING HORSE/ MK OXIDE ORE

INFERRED MINERAL RESOURCE 10,000 tonnes Ore @

0.34 % COPPER FOR 34 Tonnes COPPER

Comments/Cut Off Factor: 0.3% Cu cutoff

Mount Kelly (MK) resource figures included here. Incorporating mining depletion to end of December 2014.

Mount Kelly (Mi

FLYING HORSE/ MK OXIDE ORE

MEASURED MINERAL RESOURCE 840,000 tonnes Ore @

0.51 % COPPER FOR 4,284 Tonnes COPPER

Comments/Cut Off Factor: 0.3% Cu cutoff.

Mount Kelly (MK) resource figures included here. Incorporating mining depletion to end of December 2014.

BR 10433 Published in 2015

FLYING HORSE/ MK SULPHIDE ORE

INDICATED MINERAL RESOURCE 5,750,000 tonnes Ore @ 0.85 % COPPER FOR 49,300 Tonnes COPPER

Comments/Cut Off Factor: 0.3% Cu cutoff

Mount Kelly (MK) resource figures included here. Incorporating mining depletion to end of December 2014.

BR 10433 Published in 2015

BR 10433 Published in 2015

FLYING HORSE/ MK SULPHIDE ORE

INFERRED MINERAL RESOURCE 4,010,000 tonnes Ore @

0.77 % COPPER **FOR** 30,800 Tonnes COPPER

Comments/Cut Off Factor: 0.3% Cu cutoff

Mount Kelly (MK) resource figures included here

BR 10433 Published in 2015

FLYING HORSE/ MK SULPHIDE ORE

MEASURED MINERAL RESOURCE 950,000 tonnes Ore @

1.16 % COPPER **FOR** 11,020 Tonnes COPPER

Comments/Cut Off Factor: 0.3% Cu cutoff

Mount Kelly (MK) resource figures included here. Incorporating mining depletion to end of December 2014.

BR 10433 Published in 2015

FLYING HORSE/MK TRANSITION ORE

INDICATED MINERAL RESOURCE 1,420,000 tonnes Ore @ 0.61 % COPPER FOR 8.662 Tonnes COPPER

Comments/Cut Off Factor: 0.3% Cu cutoff

Mount Kelly (MK) resource figures included here. Incorporating mining depletion to end of December 2014.

BR 10433 Published in 2015

FLYING HORSE/MK TRANSITION ORE

INFERRED MINERAL RESOURCE 60,000 tonnes Ore @ 0.56 % COPPER FOR 560 Tonnes COPPER

Comments/Cut Off Factor: 0.3% Cu cutoff

Mount Kelly (MK) resource figures included here. Incorporating mining depletion to end of December 2014.

BR 10433 Published in 2015

FLYING HORSE/MK TRANSITION ORE

MEASURED MINERAL RESOURCE 890,000 tonnes Ore @ 0.63 % COPPER FOR 5,607 Tonnes COPPER

Comments/Cut Off Factor: 0.3% Cu cutoff.

Mount Kelly (MK) resource figures included here. Incorporating mining depletion to end of December 2014.

Resource figures listed above are JORC compliant.

A Summary of Major Mineral Resources, Mines and Projects, 2016

Published Reference ID

Year Author
2015 CST MINING GROUP
LIMITED

EXPLORE THE ROAD TO SUCCESS - ANNUAL REPORT 2015

ANNOUNCEMENT TO THE STOCK EXCHANGE OF HONG KONG LIMITED, 30 DECEMBER 2015. CST MINING GROUP LIMITED, MELBOURNE.

Source

Major Mining Related Events

Year Commenced Year Completed Comment

2007 to 2010 Pre-mining stripping commenced in 2007 (CopperCo)

2010 CST Mining Ltd took over mining and exploration operations in 2010

Mining Operations Comments OPEN CUT MINING Tenure Type/Number SHARE Company Name/Surname ML5446 100.00% CST MINERALS LADY ANNIE PTY LIMITED MI. 5448 100.00% CST MINERALS LADY ANNIE PTY LIMITED **Host Rock/Cover Sequences** Structural Unit Formation Name/Age MOUNT OXIDE DOMAIN Paradise Creek Formation / PALAEOPROTEROZOIC to PALAEOPROTEROZOIC **Deposit Model** GENERAL OREBODY MODEL HYDROTHERMAL VEINS/PIPE/STOCKWORK

GENERAL OREBODY MODEL HYDROTHERMAL VEINS/PIPE/STOCKWORK

DETAILED OREBODY MODEL PROTEROZOIC STRUCTURALLY-CONTROLLED COPPER-GOLD

COPPER-OC

Mineralisation Age

ORE MESOPROTEROZOIC

Comments

Copper mineralisation is controlled by a series of subparallel, en echelon shear zones that trend west-north-west and are associated with a splay off the Mount Kelly Fault.

The Flying Horse and Flying Horse Extended oxide resource estimates have been combined and include proved and probable reserves of 1.741 Mt at 0.75% Cu.

Deeper drilling beneath the oxide copper resource in late 2007 returned intercepts of 11m at 3.57% Cu from 132m, 21m at 2.86% Cu from 77m, 15m at 1.86% Cu from 81m, 34m at 1.02% Cu from 254m, 6m at 1.37% Cu from 106m and 20m at 0.79% Cu from 127m. Drill intersections announced in April 2008 included 48m at 1.31% Cu from 124m, 60m at 1% Cu from 122m, 24m at 2.57% Cu from 221m and 13m at 3.21% Cu from 203m (including 6m at 6.42% Cu from 204m).

Pre-mining stripping continued in late 2008.

CopperCo went into voluntary administration in November 2008. Cape Lambert Iron Ore Ltd purchased CopperCo's assets in June 2009. An Initial Public Offering to form a new company to manage the Lady Annie project is planned.

The Flying Horse and Mt Kelly resource estimates have been combined in the 2010 CST mining Ltd resource estimates.

CST Mining resumed mining and exploration at Lady Annie project in September 2010 (CST is registered in the Hong Kong Exchanges: Code 985). New resources for Flying Horse and Mount Kelly reported together in this site.

Mining at Lady Annie ceased in January 2016 due to low prices. In June 2016 the name CST Mining was changed to NetMind Financial Holdings Limited.

Web Page

http://www.cstmining.com

A Summary of Major Mineral Resources, Mines and Projects, 2016

42456 GENERAL GORDON

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 20.9KM NNE OF MT GARNET. 1:100 000 sheet Number and Name: 7962 RAVENSHOE

Grid Reference: Zone 55 305806 mE 8063864 mN Latitude -17.5030 Longitude 145.1709 Date Recorded: 6/February/2017

Other Names for Deposit / Mine

Glenlinedale

Commodities	Size	Size Definition	
TIN	SMALL	100 - 1 000 tonnes SN	
TUNGSTEN	VERY SMALL	<5 tonnes W	
BISMUTH	VERY SMALL	<50 tonnes BI	
COPPER	VERY SMALL	<500 tonnes CU	
LEAD	VERY SMALL	<1000 tonnes PB	
ZINC	VERY SMALL	<200 tonnes ZN	
FLUORITE	VERY SMALL	< 50 tonnes FL	

Production Details

4,692 tonnes KNOWN HISTORIC PRODUCTION

CASSITERITE 323.1 tonnes

Period: 1-Jul-2007 to 30-Jun-2016

TIN 14.2 tonnes

Published Reserves/Resources

Company Report 13808 Published in 1984

INFERRED MINERAL RESOURCE 7,000 tonnes Ore @

1.00 % CASSITERITE **FOR** 70 Tonnes CASSITERITE

Tonnage ranges from 7-10 000 t @ 1-1.5% Cst.

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Refere	ence II	O Year Autho	r Title	Source				
Major Mining R	Major Mining Related Events							
Year Commend		Year Completed	Comments					
1886	to	1887						
1960	to	1960						
	•							
1970	to	1970						
1972	to	1972						
1055		1001						
1977	to	1981						
1983	to	1985						
1905	10	1,00						
-								

Mining Operations Comments

OPEN CUT MINING

UNDERGROUND MINING METHODS

PITS

SHAFTS

ADITS

Tenure Type/Number		SHARE	Company Name/Surname	Christian Name
ML	4190	100.00%	CHAPMAN	Lance Thomas

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

HODGKINSON PROVINCE Hodgkinson Formation / EARLY DEVONIAN to LATE DEVONIAN

Deposit Model

GENERAL OREBODY MODEL INTRUSIVE-RELATED (PORPHYRY-RELATED)

DETAILED OREBODY MODEL TIN VEINS (CORNISH-TYPE)

Mineralisation Age

ORE LATE CARBONIFEROUS

A Summary of Major Mineral Resources, Mines and Projects, 2016

Comments			
Web Page			

A Summary of Major Mineral Resources, Mines and Projects, 2016

494053 GEORGE FISHER NORTH

OPERATING MINE

Descriptive Location: 19.2KM N OF MT ISA. 1:100 000 sheet Number and Name: 6756 MOUNT ISA

Grid Reference: Zone 54 340820 mE 7726465 mN Latitude -20.5539 Longitude 139.4730 Date Recorded: 9/March/2016

Other Names for Deposit / Mine

Hilton North George Fisher

Commodities	Size	Size Definition
ZINC	GIANT	>5 000 000 tonnes ZN
LEAD	GIANT	>5 000 000 tonnes PB
SILVER	LARGE	5 000 - 10 000 tonnes AG

Production Details

Published Reserves/Resources

BR 10427 Published in 2015

GEORGE FISHER NORTH (L72)

INDICATED MINERAL RESOURCE 98,000,000 tonnes Ore @

7.60 % ZINC FOR 7,448,000 Tonnes ZINC
48.00 g/t SILVER FOR 4,704,000 Kilograms SILVER
3.00 % LEAD FOR 2,940,000 Tonnes LEAD

Comments/Cut Off Factor: A\$69/t net smelter return

Includes probable reserves of 35Mt at 6.8% Zn, 3.2% Pb and 53g/t Ag. As at 31 Dec 2014. Resource figures

from Glencore Plc website.

BR 10427 Published in 2015

GEORGE FISHER NORTH (L72)

INFERRED MINERAL RESOURCE 98,000,000 tonnes Ore @

7.00 % ZINC FOR 6,860,000 Tonnes ZINC
50.00 g/t SILVER FOR 4,900,000 Kilograms SILVER
3.00 % LEAD FOR 2,940,000 Tonnes LEAD

Comments/Cut Off Factor: A\$69/t net smelter return

As at 31 Dec 2014. Resource figures from Glencore Plc website.

BR 10427 Published in 2015

GEORGE FISHER NORTH (L72)

MEASURED MINERAL RESOURCE 39,800,000 tonnes Ore @ 8.41 % ZINC FOR 3,347,180 Tonnes ZINC

60.60 g/t SILVER FOR 2,411,880 Kilograms SILVER
3.58 % LEAD FOR 1,424,840 Tonnes LEAD

Comments/Cut Off Factor: A\$69/t net smelter return

Includes proved reserves of 19.8Mt at 7.19% Zn, 3.48% Pb and 59g/t Ag. As at 31 Dec 2014. Resource

figures from Glencore Plc website.

Resource figures listed above are JORC compliant.

 Published Reference
 ID
 Year
 Author
 Title
 Source

 BR 10427
 2015
 GLENCORE
 GLENCORE RESOURCES & HTTP://

GLENCORE RESOURCES & HTTP://WWW.GLENCORE.COM/A
RESERVES AS AT 31 SSETS/INVESTORS/DOC/REPORT
DECEMBER 2014. S_AND_RESULTS/2014/GLEN-201

4-RESOURCES-RESERVES-REPO

RT.PDF

Major Mining Related Events

Year Commenced 1996 to	Year Completed 1996	Comments Underground drilling and development mining carried out as part of the first feasibility study.					
1997 to	1997	Second stage feasibility study commenced.					
1998 to	1998	MIM announced board approval to mine the deposit. Development of the underground mine commenced mid-1998.					

Operating Mine Life: 1999 to 2009 MIM commenced mining in 1999 after an investment of A\$243M. Currently a ten year mine plan (from 1999) that is likely to be extended with further exploration.

Mining Operations	Comments
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UNDERGROUND MINING METHODS The ore will be hoisted up the Hilton mine shaft.

Tenure Type/Number		SHARE	Company Name/Surname
ML	8058	100.00%	MOUNT ISA MINES LIMITED

Host Rock/Cover Sequences

Structural Unit Formation Name/Age
LEICHHARDT RIVER DOMAIN Urquhart Shale / PALAEOPROTEROZOIC to PALAEOPROTEROZOIC

A Summary of Major Mineral Resources, Mines and Projects, 2016

Deposit Model

GENERAL OREBODY MODEL SEDIMENT-HOSTED DEPOSIT

DETAILED OREBODY MODEL SEDIMENT-HOSTED PB-ZN (SEDEX ZN-PB,

SHALE-HOSTED ZN-PB)

Mineralisation Age

ORE PALAEOPROTEROZOIC 1652+-7 Ma.

Comments

The George Fisher North mineralisation was discovered in 1948 following the recognition of jasper and ironstone gossans that overlie the mineralisation

The deposit is similar to the Proterozoic shale-hosted style of deposits at Mount Isa and Hilton (George Fisher South). Orebodies occur as stacked stratiform lenses hosted by laminated, pyritic carbonaceous siltstones and separated by barren mudstones.

Production from George Fisher North is included with production for the Black Star (Mount Isa) mine.

Mine production for L72 and P49 for the period January 2014 to December 2014 totalled 3.9Mt at 3.3% Pb, 7.3% Zn and 64g/t Ag. The mine plan results in a mine life to 2029 (BR10427).

Web Page

www.glencore.com

A Summary of Major Mineral Resources, Mines and Projects, 2016

45325 GEORGE FISHER SOUTH

OPERATING MINE

Descriptive Location: 17.3 KM N MOUNT ISA. 1:100 000 sheet Number and Name: 6756 MOUNT ISA

Grid Reference: Zone 54 340820 mE 7724565 mN Latitude -20.5711 Longitude 139.4728 Date Recorded: 19/January/2016

Other	Names	for De	posit /	Mine
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Hilton

Handlebar Hill

ommodities	Size	Size Definition	
ZINC	LARGE	2 000 000 - 5 000 000 tonnes ZN	
LEAD	LARGE	2 500 000 - 5 000 000 tonnes PB	
SILVER	LARGE	5 000 - 10 000 tonnes AG	
COPPER	VERY SMALL	<500 tonnes CU	
ANTIMONY	SMALL	50 - 5 000 tonnes SB	
INDIUM	VERY SMALL	< 0.5 tonnes IN	

Production Details

A Summary of Major Mineral Resources, Mines and Projects, 2016

Published Reserves/Resources

BR 10427 Published in 2015 GEORGE FISHER SOUTH (P49)

INDICATED MINERAL RESOURCE 21,000,000 tonnes Ore @

4.70 % LEAD **FOR** 987,000 Tonnes LEAD

Comments/Cut Off Factor: A\$69/t net smelter return

Includes probable reserves of 5.73 Mt at 5.9% Zn, 4.5% Pb and 90g/t Ag. As at 31 Dec 2014. Resource

figures from Glencore Plc website.

BR 10427 Published in 2015 **GEORGE FISHER SOUTH (P49)**

 INFERRED MINERAL RESOURCE
 23,000,000 tonnes Ore @

 90.00 g/t SILVER
 FOR
 2,070,000 Kilograms SILVER

 7.00 % ZINC
 FOR
 1,190,000 Tonnes ZINC

 5.00 % LEAD
 FOR
 850,000 Tonnes LEAD

Comments/Cut Off Factor: A\$69/t net smelter return

As at 31 Dec 2014. Resource figures from Glencore Plc website.

BR 10427 Published in 2015 **GEORGE FISHER SOUTH (P49)**

 $\textit{MEASURED MINERAL RESOURCE} \quad 25{,}600{,}000 \text{ tonnes Ore } @$

 105.00 g/t SILVER
 FOR
 2,688,000 Kilograms SILVER

 7.86 % ZINC
 FOR
 2,012,160 Tonnes ZINC

 5.15 % LEAD
 FOR
 1,318,400 Tonnes LEAD

Comments/Cut Off Factor: A\$69/t net smelter return

Includes proved reserves of 8.9 Mt at 5.72% Zn, 4.6% Pb and 93.8g/t Ag. As at 31 Dec 2014. Resource

figures from Glencore Plc website.

BR 10427 Published in 2015 HANDLEBAR HILL O/C (OXIDE)

INDICATED MINERAL RESOURCE 100,000 tonnes Ore @

65.00 g/t SILVER FOR 6,500 Kilograms SILVER
4.10 % LEAD FOR 4,100 Tonnes LEAD
0.40 % ZINC FOR 400 Tonnes ZINC

Comments/Cut Off Factor: A\$25/t net smelter return.

As at 31 Dec 2014. Resource figures from Glencoe Plc website.

BR 10427 Published in 2015 HANDLEBAR HILL O/C (OXIDE)

MEASURED MINERAL RESOURCE490,000 tonnes Ore @88.80 g/t SILVERFOR43,512 Kilograms SILVER8.52 % LEADFOR41,748 Tonnes LEAD0.37 % ZINCFOR1,813 Tonnes ZINC

 $Comments/Cut\ Off\ Factor:\ \ A\$25/t\ net\ smelter\ return.$

Includes proved reserves of 0.49Mt at 0.37% Zn, 8.52% Pb and 88.8g/t Ag. As at 31 Dec 2014. Resource

figures from Glencore Plc website.

BR 10427 Published in 2015 HANDLEBAR HILL O/C (PRIMARY)

INDICATED MINERAL RESOURCE 3,600,000 tonnes Ore @

6.10 % ZINC FOR 219,600 Tonnes ZINC
35.00 g/t SILVER FOR 126,000 Kilograms SILVER
2.00 % LEAD FOR 72,000 Tonnes LEAD

 $Comments/Cut\ Off\ Factor:\ \ A\$25/t\ net\ smelter\ return.$

Includes probable reserves of 0.8Mt at 7.4% Zn, 2.3% Pb and 38g/t Ag. As at 31 Dec 2014. Resource figures

from Glencore Plc website.

BR 10427 Published in 2015 HANDLEBAR HILL O/C (PRIMARY)

 $\it INFERRED MINERAL RESOURCE~800,000 tonnes Ore @$

5.00 % ZINC FOR 60,000 Tonnes ZINC
30.00 g/t SILVER FOR 24,000 Kilograms SILVER
2.00 % LEAD FOR 24,000 Tonnes LEAD

Comments/Cut Off Factor: A\$25/t net smelter return.

As at 31 Dec 2014. Resource figures from Glencore Plc website.

BR 10427 Published in 2015 HANDLEBAR HILL O/C (PRIMARY)

 $\it MEASURED MINERAL RESOURCE 1,600,000 tonnes Ore @$

7.77 % ZINC FOR 124,320 Tonnes ZINC 40.60 g/t SILVER FOR 64,960 Kilograms SILVER 2.56 % LEAD FOR 40,960 Tonnes LEAD

Comments/Cut Off Factor: A\$25/t net smelter return.

Includes proved reserves of 0.22Mt at 9.5% Zn, 2.36% Pb and 31.4g/t Ag. As at 31 Dec 2014. Resource

figures from Glencore Plc website.

Resource figures listed above are JORC compliant.

A Summary of Major Mineral Resources, Mines and Projects, 2016

Published Reference ID

Year Author 2015 GLENCORE

GLENCORE RESOURCES & RESERVES AS AT 31 DECEMBER 2014.

Source HTTP://WWW.GLENCORE.COM/A SSETS/INVESTORS/DOC/REPORT S_AND_RESULTS/2014/GLEN-201 4-RESOURCES-RESERVES-REPO RT.PDF

Major Mining Related Events						
Year Commer	Year Commenced Year		Comments			
1947	to	1947	Outcropping mineralisation found by S.R. Carter.			
1966	to	1975	Shaft excavation.			
1987	to	1989	Trial production commenced in June 1987 and 100000t of ore was raised by December 1987. Trial bench stoping commenced in March 1989. The first sublevel open stope began production in November 1989.			
1989	to	2003	Mining by Mount Isa Mines Limited. Most ore was treated at the Hilton concentrator and the concentrates sent to Mount Isa for treatment.			
2003			Mount Isa Mines Ltd was taken over by Xstrata Plc.			
Mining Operations Comments						
UNDERGROUND MINING METHODS						

SHAFTS

STOPING

OPEN CUT MINING

Tenure Typ	e/Number	SHARE	Company Name/Surname	
ML	8058	100.00%	MOUNT ISA MINES LIMITED	

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

LEICHHARDT RIVER DOMAIN Urquhart Shale / PALAEOPROTEROZOIC to PALAEOPROTEROZOIC

Deposit Model

GENERAL OREBODY MODEL SEDIMENT-HOSTED DEPOSIT

DETAILED OREBODY MODEL SEDIMENT-HOSTED PB-ZN (SEDEX ZN-PB,

SHALE-HOSTED ZN-PB)

Mineralisation Age

ORE PALAEOPROTEROZOIC 1652+-7 Ma.

Comments

Production from Hilton (George Fisher South) began in 1987. The ore is processed at Mount Isa and production figures are included in those from the Black Star (Mount Isa) Mine.

The Hilton orebodies occur in the same rock-type as Mount Isa but are more faulted, jointed, and cross-cut by intrusive dykes.

In June 2007, Xstrata announced that it will open cut the Handlebar Hill deposit after drilling confirmed a 4.3Mt reserve. Development was placed on care and maintenance in February 2009.

In 2012 Xstrata reported commissioning of 40000t/a Zn-Pb deposit during the second half of 2011 (BR9789).

Mine production for L72 and P49 for the period January 2014 to December 2014 totalled 3.9Mt at 3.3% Pb, 7.3% Zn and 64g/t Ag. The mine plan results in a mine life to 2029 (BR10427).

Web Page

www.xstrata.com

A Summary of Major Mineral Resources, Mines and Projects, 2016

478923 GLEN EAGLE

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 22.0 KM E OF MINNAMOOLKA HOMESTEAD.

1:100 000 sheet Number and Name: 7961 CASHMERE

Grid Reference: Zone 55 322853 mE 7991987 mN Latitude -18.1538 Longitude 145.3254 Date Recorded: 10/February/2017

Other Names for Deposit / Mine

Gleneagle

Glen Eagle Extended No.2 Pallkarra Diatomaceous Earth

Glen Eagle Extended

Commodities Size Definition

DIATOMITE LARGE >2 000 000 tonnes DIAT

Production Details

Period: 1-Jul-2013 to 30-Jun-2016

DIATOMITE 1,014.0 tonnes

Published Reserves/Resources

Company Report 33907 Published in 2003

GLEN EAGLE

INFERRED MINERAL RESOURCE 22,000,000 tonnes Ore @

10,000,000 Tonnes DIATOMITE

Comments/Cut Off Factor: Grades ~70% silica.

Geological estimate only.

Resource figures listed above are NOT JORC compliant.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations

Tenure Type/Number		SHARE	Company Name/Surname	Christian Name
ML	20341	100.00%	TOBLER	Kenneth Arthur
ML	20407	100.00%	TOBLER	Kenneth Arthur
ML	20471	100.00%	TOBLER	Kenneth Arthur

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

WALLAROO BASALT PROVINCE

Deposit Model

GENERAL OREBODY MODEL SEDIMENT-HOSTED DEPOSIT

DETAILED OREBODY MODEL DIATOMITE DEPOSIT

Mineralisation Age

ORE CENOZOIC

Comments

Diatomite is exposed beneath basalt in creek banks. The unit dips south-westerly. Samples assayed up to 51ppm V, 59ppm Zr, 130ppm Ba, 42ppm Zn, 20ppm Cr, 11ppm Ni, 42ppm S, 41ppm Sr, 16ppm Cu and 27ppm Pb.

 $The \ diatomite \ comprises \ 68.2\% \ silica, \ 16.3\% \ alumina, \ 4.08\% \ ferric \ oxide, \ 0.93\% \ lime, \ 0.57\% \ magnesia, \ 0.5\% \ TiO2 \ and \ 0.2\% \ K2OM \ Annual \$

(ERMS 33907). It could be used as a siliceous fertiliser or soil amendment to improve plant growth and soil properties.

Web Page

A Summary of Major Mineral Resources, Mines and Projects, 2016

496687 GOONDICUM CRATER

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: GOONDICUM CRATER, 23KM SE OF KALPOWER, 112KM SSE OF GLADSTONE.

1:100 000 sheet Number and Name: 9148 MONTO

Grid Reference: Zone 56 339248 mE 7251381 mN Latitude -24.8440 Longitude 151.4091 Date Recorded: 9/February/2017

Other Names for Deposit / Mine

Goondicum Industrial Minerals Mine

Goondicum Crater Ilmenite

Commodities Size Definition Size **ILMENITE SMALL** 5 000 - 5 000 000 tonnes IM

APATITE

FELDSPAR LARGE >100 000 tonnes FS

TITANOMAGNETITE LARGE >1 000 000 tonnes TITMAG

PLATINUM VERY SMALL < 0.5 tonnes PT **PALLADIUM** VERY SMALL < 0.5 tonnes PD

Production Details

Period: 1-Jul-2004 30-Jun-2009

ILMENITE 4,460.8 tonnes **MAGNETITE** 914.0 tonnes APATITE 1,626.5 tonnes FELDSPAR 3,661.4 tonnes

Period: 1-Jul-2007 30-Jun-2008

ILMENITE 14,042.0 tonnes APATITE 5,270.0 tonnes **FELDSPAR** 2,252.0 tonnes TITANOMAGNETITE 3,986.0 tonnes

Period: 1-Jul-2015 to 30-Jun-2016

ILMENITE. 4,084.0 tonnes **APATITE** 524.0 tonnes

Published Reserves/Resources

BR 10498 Published in 2016 **GOONDICUM ML80044**

> INDICATED MINERAL RESOURCE 31,300,000 tonnes Ore @ 6.10 % ILMENITE FOR 1,909,300 Tonnes ILMENITE 563,400 Tonnes APATITE 1.80 % APATITE FOR

BR 10498 Published in 2016 **GOONDICUM ML80044**

> INFERRED MINERAL RESOURCE 30,900,000 tonnes Ore @ 6.30 % ILMENITE FOR 1,946,700 Tonnes ILMENITE

1.60 % APATITE FOR 494,400 Tonnes APATITE

BR 10498 Published in 2016 **GOONDICUM ML80141**

> INDICATED MINERAL RESOURCE 15,600,000 tonnes Ore @ 5.10 % ILMENITE FOR 795,600 Tonnes ILMENITE

BR 10498 Published in 2016 **GOONDICUM ML80141**

> INFERRED MINERAL RESOURCE 12,300,000 tonnes Ore @ 5.20 % ILMENITE FOR 639,600 Tonnes ILMENITE

Resource figures listed above are JORC compliant.

Title Source **Published Reference ID** Year Author

BR 10498 MELIOR RESOURCES INC. HTTP://WWW.MELIORRESOURC 2016 MELIOR RESOURCES INC UPDATED NI 43-101 REPORT (17 ES.COM/WP-CONTENT/UPLOAD

OCTOBER 2016) S/2016/10/MLR-UPDATED-NI4310 1-PRESS-RELEASE-17-10-16-FINA

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A Summary of Major Mineral Resources, Mines and Projects, 2016

ear Comme	nced Ye	ear Completed	Comments		
1992	to		Discovery: Mining leases granted in late 1999.		
2001	to		July 2001, Monto Minerals NL (Monto) has entered into an agreement with Monadelphous Group Ltd (Monadelphous) to finalise the Feasibility Study, secure funding and develop the Goondicum Crater Project.		
2003	to		Monto Minerals NL are in the process of developing a wet gravity and magnetic separation plant. John Holland Development and Investment Pty Ltd entered a Project Cooperation Agreement with Monto Minerals NL to construct the plant.		
2004	to	2004	Monto Minerals \$6 million test sorting plant commenced production in March 2004 processing 20t ore per hour. The plant produced the first 650 tonne bulk sample in June 2004 which was trucked to the Ipswich washing facility.		
2004	to		First sale of bulk sample of apatite made in June 2004. Apatite was sold for fertiliser production.		
2005	to	2008	First bulk sample of feldspar shipped to a customer in the Philippines. The 108 tonne sample arrived in Manila for trialling in glass bottle production. Mine closed in 2008.		
Mining Operat	ions		Comments		
OPEN CU	Γ MINING				
Tenure Type/N		SHARE	Company Name/Surname		
	0044	100.00%	GOONDICUM RESOURCES PTY LTD		
ML 8	0075	100.00%	GOONDICUM RESOURCES PTY LTD		
Host Rock/Co Structural		ces	Formation Name/Age		
	A PROVIN	CE	Goondicum Gabbro / LATE CRETACEOUS to LATE CRETACEOUS		
		IAL & COLLUVIA			
DEPOSITS		are a collectiv	Qu-QED,QI-IIIIIIOE/IOCIIO/ QOTILEII/IIII II QOTILEII/IIII		
Deposit Model					
GENERAL	OREBOD	Y MODEL	RESIDUAL DEPOSIT		
DETAILED OREBODY MODEL		Y MODEL	ALLUVIAL/ELUVIAL HEAVY MINERAL ACCUMULATION		
	OREBOD	Y MODEL	MAFIC VOLCANIC RELATED DEPOSIT		
GENERAL	DETAILED OREBODY MODEL		STRATIFORM MAFIC-ULTRAMAFIC FE-TI-V		

LATE CRETACEOUS to CENOZOIC

ORE

A Summary of Major Mineral Resources, Mines and Projects, 2016

Comments

As at June 2005, the project had proved reserves of 300,000t ilmenite, 570,000t feldspar and 110,000t apatite and probable reserves of 3,100,000t ilmenite, 1,550,000t feldspar and 225,000t apatite.

Five resource types have been recognised within the area: oxide gabbros, eluvial deposits, tertiary alluvials, alluvial channel deposits and flood plain deposits.

Mining activities commenced in the March 2007 quarter and ore was stockpiled for commissioning of the processing plant. The plant was dry commissioned in June 2007 and wet commissioning commenced in August 2007.

Unfortunately the plant failed to meet Stage 1 capacity due to flaws in the design of the feed preparation area. PricewaterhouseCoopers was appointed as voluntary administrators in August 2008. The mine was placed on care and maintenance in September 2008. The mine was officially opened in November 2007 and stockpiles of ilmenite, feldspar, apatite and titanomagnetite were established and

The plant was expected to achieve design capacity during the March 2008 quarter. Construction of the feldspar processing plant at Dakiel, 25km from Goondicum, was completed during the December quarter and commissioned during January.

The first consignment of ilmenite (3150t) was shipped from Gladstone to South Korea in January 2008.

Belridge Enterprises Ltd acquired the Goondicum mine project in May 2009 and has completed a feasibilty study aimed at redevelopment. The ore feed rate will be doubled to 3.5Mtpa through a redesigned feed preparation area and processing plant. In 2011Belridge Enterprises reported the Indicated plus Measured resource estimated at 51 Mt, averaging 4.1 per cent ilmenite, 1.9 per cent apatite and 2.5 per cent titano-magnetite in an AusIMM 8th International Heavy Minerals Conference Paper (BR10003). Plans in late 2012 were to export 7000t per month (mostly to Japan) with an expected mine life of 25 years. An addittional source of revenue is phosphorus based apatite, by-product of the ilmenite production, currently sold to a fertiliser company in NSW. In June 2013 Belridge was forced to temporarily cease operations at the mine, due to the fall in ilmenite prices.

In March 2009, the historic data was used to build a detailed block model in Micromine covering the entire mining lease. Important difference between old and new modelling is re-classification of material types: clay-sand (CS), deco gabbro (DG) and new (2009 cont.) distiction between colluvium (CL) and clay-sand (CS). The CL is drainage related and very clay-rich type restricted to gullies. CS is a decomposed gabbro with a degree of clay content; it is gradational with the DG

In November 2012 Belridge dispatched a shipment of 6500t of concentrate to Korea (as reported in the Central Telegraph on the 9th of Nov 2012. An intend of exporting another 8000t to Japan was also reported in the same source.

Melior Resources purchased the holding company of Goondicum in May 2014. After a seven month A\$ 7.6M refurbishment Goondicum commenced site commissioning in early April 2015. The mine was put back on care and maintenance in August 2015.

Melior has updated the resources in 2015, but excluded titanomagnetite and feldspar figures, noted in previous resource estimates in 2011 (BR10003) and 2005 (BR7699). Previous resources included 574 000 t of titanomagnetite (BR10003) and (cont.) 2519760 t of feldspar (BR7699).

Web Page

http://www.meliorresources.com

production rates were increased gradually.

A Summary of Major Mineral Resources, Mines and Projects, 2016

588517 **GOSFORD QUARRY**

OPERATING MINE

EAST OF AIR FORCE ROAD, NORTH OF GOLD MINE RD, HELIDON. Descriptive Location:

1:100 000 sheet Number and Name: 9342 HELIDON

Grid Reference: Zone 56 412040 mE 6956903 mN Latitude -27.5086 Longitude 152.1094 Date Recorded: 14/January/2015

Other Names for Deposit / Mine

Ablatio Sandstone 2 Cathedral Quarry

Commodities **Size Definition**

Size VERY SMALL BUILDING STONE <100 000 tonnes BLST SANDSTONE **SMALL** 10 000 - 100 000 tonnes SST

Production Details

Period: 1-Jul-1997 30-Jun-2014

SANDSTONE 31,260.0 tonnes

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Title Source Published Reference ID Year Author

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations Comments

OPEN CUT MINING

Tenure Type/Number SHARE Company Name/Surname

50199 100.00% GOSFORD QUARRIES (PROPERTIES) PTY LIMITED ML

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

CLARENCE-MORETON BASIN Helidon Sandstone / TRIASSIC to TRIASSIC

Deposit Model

Mineralisation Age

ORE

Comments

Albatio Pty Ltd was set up by the Anglican Church to secure a source of sandstone for restoration of St Johns Cathedral in Brisbane. The company also produces sandstone for the domestic and overseas markets.

In 2011 Gosford Pty bought the the northern portion of Ablatio quarry from Ablatio Pty Ltd and the Anglican Church.

Web Page

http://www.gosfordquarries.com.au/

A Summary of Major Mineral Resources, Mines and Projects, 2016

512806 **GREAT AUSTRALIA**

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 106 KM E OF MOUNT ISA, 1.8 KM S OF CLONCURRY

1:100 000 sheet Number and Name: 7056 CLONCURRY

Grid Reference: Zone 54 449036 mE 7708687 mN Latitude -20.7206 Longitude 140.5105 Date Recorded: 22/January/2016

Other Names for Deposit / Mine

Great Australia Mine **Great Australian** Great Australia Lode

Main Lode

Commodities **Size Definition** Size

COPPER SMALL 500 - 50 000 tonnes CU

GOLD VERY SMALL < 0.5 tonnes AU

Production Details

Period: 1-Jan-1868 31-Dec-1946 34,510 tonnes HARD ROCK ORE (OR REEF)

COPPER METAL 2.736.5 tonnes 7.90 percent

1-Jan-1938 Period: 31-Dec-1942 284 tonnes HARD ROCK ORE (OR REEF)

GOLD BULLION 0.5 kilograms 1.70 grams per tonne

1-Jan-1953 Period: 31-Dec-1968 2,448 tonnes HARD ROCK ORE (OR REEF)

COPPER **METAL** 118.9 tonnes 4.90 percent

1-Jul-1996 30-Jun-2002 Period:

COPPER PLATE 10,097.9 tonnes

1-Jun-2015 Period: 1-Jul-2010 to

GOLD METAL 14.3 kilograms

METAL **COPPER** 8,923.6 tonnes

Period: 1-Jul-2012 30-Jul-2014 **PRECIPITATE** 4,407.7 tonnes COPPER

Published Reserves/Resources

BR 10184

BR 10184 Published in 2012 **GREAT AUSTRALIA**

INDICATED MINERAL RESOURCE 1,400,000 tonnes Ore @

1.53 % COPPER 21,420 Tonnes COPPER FOR

182 Kilograms GOLD 0.13 g/t GOLD **FOR**

Comments/Cut Off Factor: 0.5% Cu cutoff

BR 10184 Published in 2012 **GREAT AUSTRALIA**

INFERRED MINERAL RESOURCE 800,000 tonnes Ore @

1.57 % COPPER **FOR** 12,560 Tonnes COPPER 0.14 g/t GOLD FOR 112 Kilograms GOLD

Comments/Cut Off Factor: 0.5% Cu cutoff.

Resource figures listed above are JORC compliant

Title Source Published Reference ID Year Author

ANNOUNCEMENT TO THE 2012 EXCO RESOURCES LTD MARKET RELEASE: QUEENSLAND EXPLORATION AUSTRALIAN SECURITIES

UPDATE; 2012 FIELD EXCHANGE, 20 APRIL 2012. PROGRAMME HAS EXCO RESOURCES LTD, PERTH.

COMMENCED

A Summary of Major Mineral Resources, Mines and Projects, 2016

			Summary of Major Mineral Resources, Mines and Projects, 2016		
Major Mining Rel	ated	Events			
Year Commenced 1867	to	Year Completed 1868	Comments The deposit was discovered by Ernest Henry in 1867 and was first worked in 1868, resulting in the establishment of Cloncurry. Henry engaged a Cornish captain and 30 miners to work the mine, but these soon departed.		
1869	to	1884	The mine was worked spasmodically.		
1884	to	1884	The Cloncurry Copper Mining and Smelting Company was floated in 1884 and purchased the mine from Ernest Henry. Two charcoal-fired water jacket furnaces were erected in 1884 and 200 to 300 men were initially employed.		
1885	to	1889	The workforce employed declined and only 3700t of ore was treated before operations ceased in 1889 due to the low copper price.		
1889	to	1906	The mine was idle.		
1906	to	1908	The Queensland Exploration Company commenced cleaning out the old workings in 1906 and carried out exploratory work in 1907. Two reverberatory fuirnaces were erected and the old water jacket furnaces were refurbished.		
1909	to	1913	The company had overcapitalised and had to close the mine in 1909. However, it kept the pumps running.		
1914	to	1918	The Mount Elliott Company purchased the mine in 1914. Its subsidiary, the Dobbin and Cloncurry Copper Mines Ltd, carried out development and produced cupriferous limestone flux for the Mount Elliott smelters. The mine was abandoned in 1918.		
1920	to	1923	Worked by tributers.		
1937	to	1946	Worked by tributers.		
1996	to	2000	Open cut mining and SX-EW treatment by Great Australia Copper Mining Company (Cloncurry Mining Company NL).		
2000	to	2006	Operations by Nullabor Mining.		
2006	to	2011	Acquired by Exco Resources NL.		
2011			Property was acquired by CopperChem and mining commenced, under a royalty agreement with Exco Resources NL.		
Mining Operations			Comments		
SHAFTS					
UNDERGROU	ND	MINING METHODS			
OPEN CUT MI	ININ	G			
Tenure Type/Numb	er	SHARE	Company Name/Surname		
ML 9006:		100.00%	COPPERCHEM LIMITED		
Host Rock/Cover Sequences Structural Unit CONSTANTINE DOMAIN SOLDIERS CAP DOMAIN		OMAIN	Formation Name/Age Corella Formation / PALAEOPROTEROZOIC to PALAEOPROTEROZOIC Staveley Formation/2br / PALAEOPROTEROZOIC to		
			PALAEOPROTEROZOIC		
Deposit Model			VIII DO ONI POLI VIII VIII VIII VIII VIII VIII VIII V		
GENERAL OR			HYDROTHERMAL VEINS/PIPE/STOCKWORK		
DETAILED OF	REBO	ODY MODEL	PROTEROZOIC STRUCTURALLY-CONTROLLED COPPER-GOLD		
Mineralisation Age ORE		MESOPR	OTEROZOIC sulphide and oxide zone minerals listed		

A Summary of Major Mineral Resources, Mines and Projects, 2016

Comments

Mineralisation occurs at the intersection of north and north-east trending structures. Ore occurs in two, structurally discrete bodies,

~900m apart, referred to as the Main and Paddock Lodes. The Orphan Shear deposit occurs 150m NE of the Main Lode.

Both structures are mineralised to widths of 5 to 6m. The mineralised zone is >20m wide at the intersection and extends for 150 to 200m northerly. Two main ore types recorded - oxidised ore; and chalcopyrite-pyrite-dolomite ore below 60m depth.

The Great Australia copper deposit was discovered in 1867 and worked intermittently up to 1946. From 1996 to 2002, Cloncurry Mining Company and later Nullabor Mining produced cathode copper plate via a SX-EW plant near the Great Australia open cut.

This treatment plant and associated mining leases were acquired by Exco Resources NL in 2006. A scoping study was completed in March 2007 over the Great Australian Mine and surrounding prospects.

In 2012 Exco Resources was taken over by Washington H Soul Pattinson & Co Ltd. A copper concentrate plant to treat the sulphide ore commenced operation in the third quarter of 2011.

In 2012 the levels of native copper present in the ore have impacted the plants performance and the company has commenced mining the Orphan Shear, located 150m along strike to the NE of the Great Australia open pit to improve Cu-sulphide production.

CopperChem Ltd commenced mining of oxide ore (under a royalty arrangement with Exco Resources Ltd) in the first half of 2011.

In May 2013 CopperChem announced a non-JORC reserve and resource on their webpage: the uncatagorised reserves for GAM are 60000 t at 1.4% Cu and 0.1 g/t Au and the uncatagorised resources are 3 Mt at 1.06% Cu and 0.08 g/t Au (BR10368).

Web Page

www.excoresources.com.au, www.copperchem.com.au/

A Summary of Major Mineral Resources, Mines and Projects, 2016

610264 GREAT NORTHERN

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: GREAT NORTHERN SAPPHIRE MINE, 4.2 KM ENE OF SAPPHIRE

1:100 000 sheet Number and Name: 8451 RUBYVALE

Grid Reference: Zone 55 577488 mE 7405008 mN Latitude -23.4631 Longitude 147.7587 Date Recorded: 9/February/2017

Other Names for Deposit / Mine

CommoditiesSizeSize DefinitionSAPPHIREMEDIUM1 - 10 tonnes SAPP

ZIRCONIUM

Production Details

Period: 1-Jul-1998 to 30-Jun-2004

SAPPHIRE 8,140,387.0 australian dollars

Period: 1-Jul-2011 to 30-Jun-2016

SAPPHIRE 4,285,709.0 australian dollars

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations

Tenure Type	e/Number	SHARE	Company Name/Surname
ML	1824	100.00%	GREAT NORTHERN MINING PTY LTD
ML	2185	100.00%	GREAT NORTHERN MINING PTY LTD
ML	6858	100.00%	GREAT NORTHERN MINING PTY LTD
ML	6867	100.00%	GREAT NORTHERN MINING PTY LTD
ML	6890	100.00%	GREAT NORTHERN MINING PTY LTD
ML	6891	100.00%	GREAT NORTHERN MINING PTY LTD
ML	6892	100.00%	GREAT NORTHERN MINING PTY LTD
ML	7142	100.00%	GREAT NORTHERN MINING PTY LTD
ML	7145	100.00%	GREAT NORTHERN MINING PTY LTD
ML	7159	100.00%	GREAT NORTHERN MINING PTY LTD
ML	7166	100.00%	GREAT NORTHERN MINING PTY LTD
ML	70305	100.00%	GREAT NORTHERN MINING PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

CAINOZOIC ALLUVIAL & COLLUVIAL Qa-QLD / QUATERNARY to QUATERNARY

DEPOSITS

Deposit Model

Mineralisation Age

ALLUVIUM

Comments

A Summary of Major Mineral Resources, Mines and Projects, 2016

37975 GREENWOOD

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 51.2KM EAST OF CLONCURRY, 169.2KM EAST OF MOUNT ISA.

1:100 000 sheet Number and Name: 7056 CLONCURRY

Grid Reference: Zone 54 499660 mE 7714675 mN Latitude -20.6673 Longitude 140.9967 Date Recorded: 15/February/2017

Other Names for Deposit / Mine

Greenwood No 2

Commodities Size Size Definition

LIMESTONE MEDIUM 2 000 000 - 10 000 000 tonnes LST

Production Details

Period: 1-Jul-2003 to 30-Jun-2015

LIMESTONE METALLURGICAL ORE 789,648.8 tonnes

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

2003 to 2006 Limestone produced from ML 2722 for use as flux in Mount Isa smelters.

2003 Limestone mainly produced from ML 2721. No production figures available.

Mining Operations Comments

PITS

OPEN CUT MINING

Tenure Type/Number SHARE Company Name/Surname MOUNT ISA MINES LIMITED ML 2721 100.00% ML2722 100.00% MOUNT ISA MINES LIMITED ML2723 100.00% MOUNT ISA MINES LIMITED ML 2724 100.00% MOUNT ISA MINES LIMITED

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

EROMANGA BASIN Toolebuc Formation / EARLY CRETACEOUS to EARLY CRETACEOUS

Deposit Model

GENERAL OREBODY MODEL SEDIMENT-HOSTED DEPOSIT

DETAILED OREBODY MODEL LIMESTONE DEPOSIT

Mineralisation Age

ORE CRETACEOUS

Comments

 $MLs\ 2721,\ 2722,\ 2723\ and\ 2724\ (Greenwood\ Nos\ 1\ to\ 4,\ respectively)\ are\ held\ by\ Mount\ Isa\ Mines\ Ltd.\ Limestone\ is\ quarried\ for\ use\ as$

a flux in the Mount Isa smelters.

A Summary of Major Mineral Resources, Mines and Projects, 2016

45114 GRO-FAST

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 8.7 KM WSW OF MALANDA, ATHERTON TABLELAND, SOUTH OF CAIRNS.

1:100 000 sheet Number and Name: 8063 BARTLE FRERE

Grid Reference: Zone 55 342476 mE 8077227 mN Latitude -17.3852 Longitude 145.5172 Date Recorded: 10/February/2017

Other Names for Deposit / Mine

Tropical Peat

Commodities Size Size Definition

PEAT

Production Details

Period: 1-Jul-1996 to 30-Jun-2016

PEAT 27,167.5 tonnes

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations Comments

SURFACE MINING METHODS

Tenure Type/NumberSHARECompany Name/SurnameML4317100.00%TABLELAND PEAT PTY LTD

ML 431/ 100.00/0 TABLELAND LEAT I

Host Rock/Cover Sequences Structural Unit

Structural Unit Formation Name/Age
ATHERTON BASALT PROVINCE Atherton Basalt / LATE TERTIARY to QUATERNARY

Deposit Model

GENERAL OREBODY MODEL SEDIMENT-HOSTED DEPOSIT

Mineralisation Age

ORE CENOZOIC

Comments

A Summary of Major Mineral Resources, Mines and Projects, 2016

610266 **GUNNAWARRA**

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 12.8 KM WSW OF GUNNAWARRA HOMESTEAD, 120 KM SOUTH OF CAIRNS.

1:100 000 sheet Number and Name: 7962 RAVENSHOE

Grid Reference: Zone 55 290299 mE 8012052 mN Latitude -17.9697 Longitude 145.0198 Date Recorded: 10/February/2017

Other Names for Deposit / Mine

Commodities **Size Definition**

Size SMALL DOLOMITE (CHEMICAL GRADE) 2 000 - 2 000 000 tonnes DO

Production Details

Period: 1-Jul-2013 to 30-Jun-2016

DOLOMITE (CHEMICAL GRADE) 48,538.0 tonnes

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Source Published Reference ID Title Year Author

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations

Tenure Type/Number SHARE Company Name/Surname MIRIWINNI LIME PTY LTD ML20540 100.00%

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

MCBRIDE BASALT PROVINCE Depression Basalt / QUATERNARY to QUATERNARY

Deposit Model

Mineralisation Age

ORE

Comments

A Summary of Major Mineral Resources, Mines and Projects, 2016

493994 GURULMUNDI

OPERATING MINE

Descriptive Location: 4 KM SOUTH EAST OF GURULMUNDI, 30KM NORTH OF MILES, 315KM WEST OF BRISBANE.

1:100 000 sheet Number and Name: 8945 GULUGUBA

Grid Reference: Zone 56 207673 mE 7071434 mN Latitude -26.4473 Longitude 150.0686 Date Recorded: 10/February/2017

Other Names for Deposit / Mine

Australian Bentonite Mine

Ausben No.1

Commodities Size Size Definition

BENTONITE MEDIUM 200 000 - 20 000 000 tonnes BENT

Production Details

Period: 1-Jul-1996 to 30-Jun-2016

BENTONITE 1,120,096.6 tonnes

Published Reserves/Resources

INFERRED MINERAL RESOURCE

12,000,000 Tonnes BENTONITE

Of this resource there is 3 Mt of premium grade sodium bentonite. pers comm D Carmichael.

Resource figures listed above are NOT JORC compliant.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations Comments

OPEN CUT MINING

Tenure Typ	e/Number	SHARE	Company Name/Surname
ML	5907	100.00%	SIBELCO AUSTRALIA LIMITED
ML	5909	100.00%	SIBELCO AUSTRALIA LIMITED
ML	50058	100.00%	SIBELCO AUSTRALIA LIMITED

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

SURAT BASIN Orallo Formation / EARLY CRETACEOUS to EARLY CRETACEOUS

Deposit Model

GENERAL OREBODY MODEL SEDIMENT-HOSTED DEPOSIT

DETAILED OREBODY MODEL SEDIMENTARY CLAY DEPOSITS

Mineralisation Age

ORE JURASSIC

Comments

Three bentonite seams occur with a combined thickness of 6m. Production averages 40,000 to 100,000tpa. Unimin Australia Ltd produce sodium bentonite for local and export industrial and feedstock markets.

Web Page

http://www.sibelco.com.au/

A Summary of Major Mineral Resources, Mines and Projects, 2016

39124 HEY POINT

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 2.3KM W OF WEIPA AIRSTRIP

1:100 000 sheet Number and Name: 7272 WEIPA Grid Reference: Zone 54 596000 mE 8592000 mN

Latitude -12.7350 Longitude 141.8843 Date Recorded: 12/May/2016

Other Names for Deposit / Mine

Commodities Size Definition

BAUXITE SMALL 100 000 - 100 000 000 tonnes BX

Production Details

Published Reserves/Resources

BR 10236 Published in 2012

HEY POINT

INFERRED MINERAL RESOURCE 3,800,000 tonnes Ore @

2,500,000 Tonnes BAUXITE

Comments/Cut Off Factor: 55.3 per cent Alumina (Al2O3) and 9.8 per cent Silica (SiO2).

Resource figures listed above are JORC compliant.

Published Reference ID Year Author Title Source

BR 10236 2012 CAPE ALUMINA PTY LTD 2012 ANNUAL REPORT ANNOUNCEMENT TO THE

AUSTRALIAN SECURITIES EXCHANGE, 24 OCTOBER 2012. CAPE ALUMINA PTY LTD,

BRISBANE.

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations

Tenure Type/Number SHARE Company Name/Surname

EPM 15054 100.00% GREEN COAST RESOURCES PTY LTD

ML 20611 100.00% GREEN COAST RESOURCES PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

KARUMBA BASIN Bulimba Formation / EARLY TERTIARY to EARLY TERTIARY

Deposit Model

GENERAL OREBODY MODEL RESIDUAL DEPOSIT
DETAILED OREBODY MODEL LATERITIC BAUXITE

Mineralisation Age

Comments

The Hey Point bauxite deposit was sold to Racle Resources Pty Ltd in November 2012 by Cape Alumina Pty Ltd (BR 10237).

The Hey Point deposit is within the Bulimba Formation and has the potential for development as a small-scale, direct-shipping bauxite project (BR 10237).

DSO mining operations started in May 2016.

A Summary of Major Mineral Resources, Mines and Projects, 2016

504553 HUGHENDEN GYPSUM

OPERATING MINE

Descriptive Location: 8 KM WEST OF HUGHENDEN, 310KM WEST OF TOWNSVILLE.

1:100 000 sheet Number and Name: 7756 HUGHENDEN

Grid Reference: Zone 55 196505 mE 7694799 mN Latitude -20.8220 Longitude 144.0842 Date Recorded: 10/February/2017

Other Names for Deposit / Mine

Burdekin Lime Company Gypsum

Dino 4

Dino 5

Dino 1

Dino 2

Dino 3

Commodities Size Definition

GYPSUM SMALL 5 000 - 5 000 000 tonnes GYP

Production Details

Period: 1-Jul-1996 to 30-Jun-2016

GYPSUM 284,746.0 tonnes

Published Reserves/Resources

BR 6194 Published in 1999

INFERRED MINERAL RESOURCE

400,000 Tonnes GYPSUM

Resource figures listed above are NOT JORC compliant.

Published Reference ID Year Author Title Source

BR 6194 1999 SMART J V GYPSUM MINERAL INFORMATION

LEAFLET NO 26 QUEENSLAND DEPARTMENT OF MINES AND

ENERGY

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations Comments

SURFACE MINING METHODS

Two small areas have been scraped for material to <1m depth.

Tenure Type/Number SHARE Company Name/Surname **Christian Name** ML 10238 100.00% WIEBEN Sydney ML10239 100.00% WIEBEN Sydney ML 90089 100.00% WIEBEN Sydney

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

EROMANGA BASIN Toolebuc Formation / EARLY CRETACEOUS to EARLY CRETACEOUS

Deposit Model

GENERAL OREBODY MODEL SEDIMENT-HOSTED DEPOSIT

DETAILED OREBODY MODEL EVAPORITE DEPOSIT

DETAILED OREBODY MODEL ENRICHED LIME DEPOSIT

Mineralisation Age

ORE QUATERNARY

Comments

The Burdekin Lime Company Pty Ltd is mining a series of gypsum-veined earthy lime deposits occurring in a 10km long, narrow corridor of Cretaceous Toolebuc Formation.

The material is used as a soil conditioner in agriculture, mainly for cane growing and peanuts.

This is not a pure gypsum deposit but rather an earthy lime deposit with gypsum veining. Screening of the material allows a higher grade gypsum product to be produced.

A Summary of Major Mineral Resources, Mines and Projects, 2016

486374 IVERAGH

OPERATING MINE

Descriptive Location: 2.4KM SE OF TANNUM SANDS, 20KM SE OF GLADSTONE.

1:100 000 sheet Number and Name: 9150 GLADSTONE

Grid Reference: Zone 56 335764 mE 7347980 mN Latitude -23.9715 Longitude 151.3858 Date Recorded: 14/February/2017

Other Names for Deposit / Mine

Tannum Sands
Tannum Silica Sand

Commodities Size Size Definition

SILICA SAND LARGE >2 500 000 tonnes SIS

Production Details

Period: 1-Jul-1991 to 30-Jun-2016

SILICA SAND 2,559,097.3 tonnes

Published Reserves/Resources

BR 5696 Published in 1998 IVERAGH

PROVED ORE RESERVE

4,000,000 Tonnes SILICA SAND

Resource figures listed above are NOT JORC compliant.

Published Reference ID Year Author Title Source

BR 5696 1998 DEPARTMENT OF MINES QUEENSLAND MINERALS AND AND ENERGY. ENERGY REVIEW, 1997-98.

AND ENERGY, QUEENSLAND

Major Mining Related Events

Year Commenced Year Completed Comments

Mining by Queensland Cement Ltd commenced in 1991.

Mining Operations Comments

OPEN CUT MINING

Tenure Type/Number SHARE Company Name/Surname

ML 3664 100.00% CEMENT AUSTRALIA (EXPLORATION) PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

MODERN COASTAL DEPOSITS Qhcb-YARROL/SCAG / QUATERNARY to QUATERNARY

Deposit Model

GENERAL OREBODY MODEL DUNE DEPOSIT

DETAILED OREBODY MODEL DUNE DEPOSIT SILICA SAND

Mineralisation Age

ORE CENOZOIC

Comments

Silica sand for the manufacture of cement clinker. Mining from a large pit in an old beachridge barrier system.

Web Page

http://www.cemaust.com.au

A Summary of Major Mineral Resources, Mines and Projects, 2016

503698 **JEEBROPILLY**

OPERATING MINE

Descriptive Location: 7KM SW OF IPSWICH 1:100 000 sheet Number and Name: 9442 IPSWICH

Grid Reference: Zone 56 464405 mE 6941004 mN Latitude -27.6545 Longitude 152.6391 Date Recorded: 20/May/2015

Other Names for Deposit / Mine

Jeebropilly Bentonite

CommoditiesSizeSize DefinitionBENTONITESMALL2 000 - 200 000 tonnes BENT

2,146.0 tonnes

Production Details

Period: 1-Jul-1998 to 30-Jun-2010

BENTONITE 68,268.0 tonnes

Period: 1-Jul-2000 to 30-Jun-2004

GRAVEL

Period: 1-Jul-2004 to 30-Jun-2005

CLAY 938.0 tonnes

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations Comments

OPEN CUT MINING

Tenure Typ	e/Number	SHARE	Company Name/Surname
ML	4677	100.00%	JEEBROPILLY COLLIERIES PTY LTD
ML	4689	100.00%	JEEBROPILLY COLLIERIES PTY LTD
ML	4710	100.00%	JEEBROPILLY COLLIERIES PTY LTD
ML	50132	100.00%	JEEBROPILLY COLLIERIES PTY LTD
ML	50133	100.00%	JEEBROPILLY COLLIERIES PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

CLARENCE-MORETON BASIN Walloon Subgroup / MIDDLE JURASSIC to MIDDLE JURASSIC

Deposit Model

GENERAL OREBODY MODEL SEDIMENT-HOSTED DEPOSIT

DETAILED OREBODY MODEL SEDIMENTARY CLAY DEPOSITS

Mineralisation Age

ORE JURASSIC

Comments

Calcium magnesium bentonite was recovered as a byproduct from the Jeebropilly open-cut coal mine and has been stockpiled for processing and sale.

Web Page

http://www.newhopecoal.com.au

A Summary of Major Mineral Resources, Mines and Projects, 2016

486400 KENNEDY CREEK

OPERATING MINE

Descriptive Location: 70 KM SW OF SARINA, 295KM NW OF GLADSTONE.

1:100 000 sheet Number and Name: 8654 NEBO

Grid Reference: Zone 55 701674 mE 7566935 mN Latitude -21.9904 Longitude 148.9534 Date Recorded: 16/February/2017

Other Names for Deposit / Mine

Commodities Size Size Definition

EARTHY LIME / DOLOMITE (AGRICULTURAL) LARGE >1 000 000 tonnes ELIM

Production Details

Period: 1-Jul-2008 to 30-Jun-2015

EARTHY LIME / DOLOMITE (AGRICULTURAL) 9,423.0 tonnes

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations

Tenure Type/NumberSHARECompany Name/SurnameML7029375.00%CQ DOLOMITE PTY LTDML7029325.00%MACEGATE PTY LIMITED

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

CONNORS SUBPROVINCE Lizzie Creek Volcanics / EARLY PERMIAN to EARLY PERMIAN

Deposit Model

GENERAL OREBODY MODEL RESIDUAL DEPOSIT

DETAILED OREBODY MODEL ENRICHED LIME DEPOSIT

Mineralisation Age

ORE CENOZOIC

Comments

Earthy lime fromed by in-situ weathering of andesites.

A Summary of Major Mineral Resources, Mines and Projects, 2016

588110 KILKENNY NORTH

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: ~3KM W OF CRACOW, ~175KM SE OF GLADSTONE.

1:100 000 sheet Number and Name: 8947 CRACOW

Grid Reference: Zone 56 224250 mE 7200840 mN Latitude -25.2835 Longitude 150.2617 22/May/2015 Date Recorded:

Other Names for Deposit / Mine

Crocow Gold Mine Group

Size Definition Commodities Size **GOLD SMALL** 0.5 - 5 tonnes AU

Production Details

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID Source

Year Author

EVOLUTION MINING MINERAL REPORT TO THE AUSTRALIAN BR 10019 2012 EVOLUTION MINING LIMITED RESOURCE STATEMENT - JUNE SECURITIES EXCHANGE. 25

> SEPTEMBER 2012 EVOLUTION 2012 MINING LIMITED, MELBOURNE.

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations

Tenure Type/Number SHARE Company Name/Surname 80089 100.00% LION MINING PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

AUBURN SUBPROVINCE Camboon Volcanics / LATE CARBONIFEROUS to EARLY PERMIAN

Deposit Model

Mineralisation Age

ORE EARLY PERMIAN

Comments

The ore reserves have been reported above cut-off grade of 3.0 g/t Au and based on a gold price of A\$1350 per ounce and a gold recovery of 93%. Mining depletion and a narrowing of some lode structures was also taken into account by Evolution (2012).

The mineralisation is amenable to conventional cyanide leach extraction after fine grinding, with average recoveries of 94.3% of the gold.

An exploration decline was commenced at Kilkenny in the first half of 2009. The mine is now held by Evolution Mining Limited (since 2011).

In Dec 2010 resource definition continued to validate Kilkenny, Phoenix, Tipperary & Empire shoots: Significant intercepts: KKU051:

 $21.1m @ 3.8g/t \ Au \ from \ 340m; \ KKU054: 10.6m @ 13g/t \ Au \ from \ 119m; \ KKU062: 9.7m @ 11g/t \ Au \ from \ 278m$

Dec2010 (cont): KKU053: 2.0m @ 20g/t Au from 101m; KKU060: 4.8m @ 7.7g/t from 179.7m (BR9605).

The ore reserves have been reported above cut-off grade of 3.0 g/t Au and based on a gold price of A\$1350 per ounce and a gold recovery of 93%. Mining depletion and a narrowing of some lode structures was also taken into account by Evolution (2012).

Web Page

www.evolutionmining.com.au

A Summary of Major Mineral Resources, Mines and Projects, 2016

588056 KULTHOR

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: ~30 KM ESE OF CHATSWORTH HS, ~195KM SE OF MT ISA.

1:100 000 sheet Number and Name: 7053 TOOLEBUC

Grid Reference: Zone 54 453900 mE 7556400 mN Latitude -22.0966 Longitude 140.5531 Date Recorded: 22/May/2015

Other Names for Deposit / Mine

Osborne Project

Commodities Size Size Definition

COPPER MEDIUM 50 000 - 250 000 tonnes CU

GOLD MEDIUM 5 - 50 tonnes AU

Production Details

Published Reserves/Resources

BR 9977 Published in 2012 KULTHOR UNDERGROUND

INDICATED MINERAL RESOURCE 4,500,000 tonnes Ore @

1.50 % COPPER **FOR** 67,500 Tonnes COPPER

1.00 g/t GOLD FOR 4,500 Kilograms GOLD

Comments/Cut Off Factor: 1.2% equiv Cu cut-off

BR 9977 Published in 2012 KULTHOR UNDERGROUND

INFERRED MINERAL RESOURCE 5,400,000 tonnes Ore @

1.30 % COPPER **FOR** 70,200 Tonnes COPPER

0.90 g/t GOLD FOR 4,860 Kilograms GOLD

Comments/Cut Off Factor: 1.2% equiv Cu cut-off

BR 9977 Published in 2012 KULTHOR UNDERGROUND

MEASURED MINERAL RESOURCE 2,900,000 tonnes Ore @

1.70 % COPPER FOR 49,300 Tonnes COPPER 1.00 g/t GOLD FOR 2,900 Kilograms GOLD

Title

Comments/Cut Off Factor: 1.2% equiv Cu cut-off

Resource figures listed above are JORC compliant.

Published Reference ID Year Author

BR 9977 2012 IVANHOE AUSTRALIA

LIMITED

MARKET RELEASE: IVANHOE AUSTRALIA - UPGRADE TO MINERAL RESOURCE OVER 60% INCREASE IN CONTAINED METALAT KULTHOR RESULTS Source

ANNOUNCEMENT TO THE

AUSTRALIAN SECURITIES

EXCHANGE, 19 SEPTEMBER

2012. IVANHOE AUSTRALIA LIMITED, MELBOURNE.

ARE EXPECTED TO EXTEND
OSBORNE MINE LIFE

Major Mining Related Events

Year Commenced Year Completed Comments

2012 Ivanhoe Australia commenced production late 2012

Mining Operations Comments

UNDERGROUND MINING METHODS

DECLINED SHAFTS/DRIVES

Tenure Type/Number SHARE Company Name/Surname

ML 90158 100.00% CHINOVA RESOURCES OSBORNE PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

KURIDALA-SELWYN DOMAIN Starcross Formation / PALAEOPROTEROZOIC to

PALAEOPROTEROZOIC

Deposit Model

Mineralisation Age

ORE MESOPROTEROZOIC dating at Osborne believed to be valid for this

deposit too

Comments

kulthor is a blind deposit beneath +100 m of Mesozoic sediments. Much of the mineralisation is hosted by and overprints banded quartz-magnetite-apatite ironstones developed within the host sequence of metamorphic, igneous and metasomatic rocks.

Web Page

www.chinovaresources.com/

A Summary of Major Mineral Resources, Mines and Projects, 2016

493528 KUNWARARA

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 60 KM NORTH-WEST OF ROCKHAMPTON.

1:100 000 sheet Number and Name: 8952 PRINCHESTER

Grid Reference: Zone 56 211246 mE 7466216 mN Latitude -22.8870 Longitude 150.1855 Date Recorded: 10/February/2017

Other Names for Deposit / Mine

Oldman North

Commodities			Size	Size Definition	
MAGNESITE			LARGE >10 000 000 tonnes MS		
Production Details					
Period: 1-Jul-19	992 to	30-Jun-1993	1,951,677 cubic metr	es SOIL/REGOLITH	
MAGNESITE			224,638.0 tonnes		
Period: 1-Jul-19	993 to	30-Jun-1994	2,475,725 cubic metr	es SOIL/REGOLITH	
MAGNESITE			278,409.0 tonnes		
Period: 1-Jul-19	994 to	30-Jun-1995	2,500,000 cubic metr	es SOIL/REGOLITH	
MAGNESITE			260,000.0 tonnes		
Period: 1-Jul-19	995 to	30-Jun-1996			
MAGNESITE			287,251.0 tonnes		
Period: 1-Jul-19	996 to	30-Jun-1997	2,400,000 cubic metr	es SOIL/REGOLITH	
MAGNESITE			209,040.0 tonnes		
Period: 1-Jul-19	997 to	30-Jun-1998	2,310,000 cubic metr	es SOIL/REGOLITH	
MAGNESITE			317,000.0 tonnes		
Period: 1-Jul-19	998 to	30-Jun-1999	2,290,000 cubic metr	es SOIL/REGOLITH	
MAGNESITE			278,000.0 tonnes		
Period: 1-Jul-19	999 to	30-Jun-2000			
MAGNESITE			398,001.0 tonnes		
Period: 1-Jul-20	000 to	30-Jun-2001			
MAGNESITE			495,082.0 tonnes		
Period: 1-Jul-20	001 to	30-Jun-2002	2,169,950 cubic metr	es SOIL/REGOLITH	
MAGNESITE			601,233.0 tonnes		
Period: 1-Jul-20	002 to	30-Jun-2003	2,730,895 cubic metr	es SOIL/REGOLITH	
MAGNESITE			447,261.0 tonnes		
Period: 1-Jul-20	003 to	30-Jun-2016			
MAGNESITE			6,239,030.0 tonnes		

Published Reserves/Resources

BR 9837 Published in 2004

KG

 $\begin{tabular}{ll} \textbf{\textit{MEASURED MINERAL RESOURCE}} & 18,500,000 \text{ tonnes Ore } @ \\ 6,200,000 \text{ Tonnes MAGNESITE} \\ \end{tabular}$

Includes proved reserves of 4.2Mt for 1.3Mt magnesite.

BR 9837 Published in 2004

KG2

MEASURED MINERAL RESOURCE 15,000,000 tonnes Ore @ 5,300,000 Tonnes MAGNESITE

Includes proved reserves of 5.8Mt for 2.3Mt magnesite and probable reserves of 6.4Mt for 2.0Mt magnesite.

BR 9837 Published in 2004

KG3

 $\begin{array}{c} \textit{INDICATED MINERAL RESOURCE} & 1,700,000 \text{ tonnes Ore } @ \\ & 600,000 \text{ Tonnes MAGNESITE} \end{array}$

BR 9837 Published in 2004

KG3

 $\begin{array}{ccc} \textit{MEASURED MINERAL RESOURCE} & 5,200,000 \text{ tonnes Ore } @ \\ & 1,600,000 \text{ Tonnes MAGNESITE} \end{array}$

Includes proved reserves of 5.0Mt for 1.6Mt magnesite.

BR 9837 Published in 2004

OLDMAN NORTH

INDICATED MINERAL RESOURCE 11,400,000 tonnes Ore @ 3,600,000 Tonnes MAGNESITE

Includes probable reserves of 10.9Mt for 3.4Mt magnesite.

Resource figures listed above are JORC compliant.

A Summary of Major Mineral Resources, Mines and Projects, 2016

Published Reference ID BR 9837

Year Author

2004 AUSTRALIAN MAGNESIUM

AUSTRALIAN MAGNESIUM CORPORATION LIMITED ANNUAL REPORT JUNE 2004 Source AUSTRALIAN MAGNESIUM CORPORATION LIMITED

Major Mining Related Events

Year Commenced Year Completed 1985 1985 tο

Comments

CORPORATION LIMITED

The presence and commercial potential of the magnesite nodules was discovered by

Operating Mine Life: 1991 to 2097 Mining by Queensland Magnesia (Operations) Pty Ltd.

1997 1997 Major investment in mine and plant to expand capacity and reduce costs; Entry into the to

calcined magnesia markets - magnesia sales reach 200000tpa

2003 2003 Completed construction of an air pulsed gravity separator, which produces a final magnesite to

product without additional processing at KG1.

2004 A new company, OMAG Ltd, was formed to be the holding company of magnesite and

magnesia assets.

Mining Operations Comments

OPEN CUT MINING Ore is mined on four 3m benches by conventional earth moving

equipment.

SURFACE MINING METHODS

Tenure Type/	Number (SHARE	Company Name/Surname
MDL	344	40.00%	QMC (KUNWARARA) PTY LIMITED
MDL	344	10.00%	QMC REFMAG PTY LTD
MDL	344	50.00%	QMCH PTY LTD
ML	5868	40.00%	QMC (KUNWARARA) PTY LIMITED
ML	5868	10.00%	QMC REFMAG PTY LTD
ML	5868	50.00%	QMCH PTY LTD
ML	5869	40.00%	QMC (KUNWARARA) PTY LIMITED
ML	5869	10.00%	QMC REFMAG PTY LTD
ML	5869	50.00%	QMCH PTY LTD
ML	80067	40.00%	QMC (KUNWARARA) PTY LIMITED
ML	80067	10.00%	QMC REFMAG PTY LTD
ML	80067	50.00%	OMCH PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

HERBERT CREEK BASIN Kunwarara Magnesite / TERTIARY to TERTIARY

Deposit Model

GENERAL OREBODY MODEL SEDIMENT-HOSTED DEPOSIT DETAILED OREBODY MODEL NODULAR MAGNESITE

Mineralisation Age

ORE TERTIARY to QUATERNARY

Comments

The deposit is considered to be the world's largest cryptocrystalline magnesite deposit.

Kunwarara is situated in a shallow freshwater sedimentary basin in which extensive flat lying sheets of loosely consolidated freshwater sediments were deposited during the Tertiary and Quaternary.

Sheet-like magnesite deposits were developed within the upper portions of these sediments due to weathering and erosion of nearby serpentinite and subsequent enrichment through diagenesis.

In February 2009, OMAG announced major production cuts at Kunwarara to reduce inventories and conserve cash. Contract mining ceased at Kunwarara and the Parkhurst processing plant was reduced to 30% of its capacity.

Production is expected to remain at these levels until the middle of 2009.

In September 2010 QMAG commenced mining at the Yaamba magnesite deposit. Initial open-cut mining involves partial processing (screening) of the ore before transporting to the KG1 plant for benefication.

Web Page

www.qmag.com.au; www.am-technologies.com.au

A Summary of Major Mineral Resources, Mines and Projects, 2016

547365 LAS MINERALE

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 15KM W OF CLONCURRY 1:100 000 sheet Number and Name: 6956 MARRABA

Grid Reference: Zone 54 433720 mE 7713966 mN Latitude -20.6724 Longitude 140.3636 Date Recorded: 15/February/2017

250 000 - 2 000 000 tonnes CU

1 000 - 20 000 tonnes CO

0.5 - 5 tonnes AU

Other Names for Deposit / Mine

Las Minerale Central

Las Minerale East

Las Minerale North Offset

Las Minerale West

Southern Siltstone

Commodities Size Definition

COPPER LARGE
COBALT MEDIUM
GOLD SMALL

MAGNETITE SMALL 50 000 - 500 000 tonnes MT

Production Details

Period: 1-Jul-2014 to 30-Jun-2016

COPPER METAL 359.1 tonnes
GOLD METAL 5.2 kilograms

A Summary of Major Mineral Resources, Mines and Projects, 2016

Published Reserves/Resources

BR 10567 Published in 2016

MAGNETITE ONLY RESOURCE ROCKLA

INDICATED MINERAL RESOURCE 100,000 tonnes Ore @

19.60 % MAGNETITE FOR 19,600 Tonnes MAGNETITE

Comments/Cut Off Factor: cut off at 10% magnetite

BR 10567 Published in 2016

MAGNETITE ONLY RESOURCE ROCKLA

INFERRED MINERAL RESOURCE 177,900,000 tonnes Ore @

15.10 % MAGNETITE FOR 26,862,900 Tonnes MAGNETITE

Comments/Cut Off Factor: cut off at 10% magnetite

BR 10567 Published in 2016

MAGNETITE ONLY RESOURCE ROCKLA

MEASURED MINERAL RESOURCE 300,000 tonnes Ore @

11.40 % MAGNETITE FOR 34,200 Tonnes MAGNETITE

Comments/Cut Off Factor: cut off at 10% magnetite

BR 10567 Published in 2016

ROCKLANDS OPEN CUT

INDICATED MINERAL RESOURCE 9,400,000 tonnes Ore @

0.10 g/t GOLD **FOR** 940 Kilograms GOLD

Comments/Cut Off Factor: 0.2% Cu equivalent cutoff

BR 10567 Published in 2016

ROCKLANDS OPEN CUT

INFERRED MINERAL RESOURCE 200,000 tonnes Ore @

4.90 % MAGNETITEFOR9,800 Tonnes MAGNETITE0.36 % COPPERFOR720 Tonnes COPPER0.02 % COBALTFOR40 Tonnes COBALT

0.14 g/t GOLD FOR 28 Kilograms GOLD

Comments/Cut Off Factor: 0.2% Cu equivalent cutoff

BR 10567 Published in 2016

ROCKLANDS OPEN CUT

MEASURED MINERAL RESOURCE 38,400,000 tonnes Ore @

 5.80 % MAGNETITE
 FOR
 1,102,000 Tonnes MAGNETITE

 0.64 % COPPER
 FOR
 245,760 Tonnes COPPER

 0.03 % COBALT
 FOR
 11,865 Tonnes COBALT

0.14 g/t GOLD **FOR** 5,376 Kilograms GOLD

Comments/Cut Off Factor: 0.2% Cu equivalent cutoff

BR 10567 Published in 2016

ROCKLANDS UNDERGROUND

INDICATED MINERAL RESOURCE 7,000,000 tonnes Ore @

1.20 % MAGNETITE FOR 84,000 Tonnes MAGNETITE
0.92 % COPPER FOR 64,400 Tonnes COPPER
0.03 % COBALT FOR 1,799 Tonnes COBALT

0.23 g/t GOLD FOR 1,610 Kilograms GOLD

Comments/Cut Off Factor: 0.8% Cu equivalent cutoff

BR 10567 Published in 2016

ROCKLANDS UNDERGROUND

INFERRED MINERAL RESOURCE 400,000 tonnes Ore @

 1.30 % MAGNETITE
 FOR
 5,200 Tonnes MAGNETITE

 0.75 % COPPER
 FOR
 3,000 Tonnes COPPER

 0.26 g/t GOLD
 FOR
 104 Kilograms GOLD

0.02 % COBALT FOR 99 Tonnes COBALT

Comments/Cut Off Factor: 0.8% Cu equivalent cutoff

BR 10567 Published in 2016

ROCKLANDS UNDERGROUND

MEASURED MINERAL RESOURCE 1,300,000 tonnes Ore @

2.00 % MAGNETITE FOR 26,000 Tonnes MAGNETITE
1.36 % COPPER FOR 17,680 Tonnes COPPER
0.04 % COBALT FOR 475 Tonnes COBALT

0.22 g/t GOLD **FOR** 286 Kilograms GOLD

Comments/Cut Off Factor: 0.8% Cu equivalent cutoff

Resource figures listed above are JORC compliant.

A Summary of Major Mineral Resources, Mines and Projects, 2016

Published Reference ID

BR 10567

Year Author

2016 CUDECO LIMITED

Title

QUARTERLY REPORT ENDING 31ST MARCH 2016:

ROCKLANDS GROUP COPPER PROJECT

ANNOUNCEMENT TO THE AUSTRALIAN SECURITIES EXCHANGE, 29 APRIL 2016. CUDECO LIMITED, GOLD

COAST.

Major Mining Related Events

Year Commenced

Year Completed

Comments

Mining Operations

Tenure Type/Number SHARE Company Name/Surname
ML 90177 100.00% CUDECO LIMITED

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

MITAKOODI DOMAIN Overhang Jaspilite / PALAEOPROTEROZOIC to

PALAEOPROTEROZOIC

Deposit Model

GENERAL OREBODY MODEL HYDROTHERMAL VEINS/PIPE/STOCKWORK

DETAILED OREBODY MODEL IRON-OXIDE CU-AU (-U-REE)

Mineralisation Age

ORE MESOPROTEROZOIC

Comments

Cudeco now plans to drill out the high-grade bonanza zones down to 250m depth at Las Minerale and Rocklands South.

In August 2006, CuDeco announced that drilling results had extended the total known length of the mineralised zone at Las Minerale to 850m. Drillhole DORC 111 intersected 38m at 1.82% Cu from 47m and 42m at 1.10% Cu from 196m.

In September 2006, CuDeco announced that drillhole DORC 123 had intersected 57m at 2.02% Cu from 69m, including 29m at 3.13% Cu from 75m and 27m at 0.4g/t Au from 77m. Hold DORC 124 intersected 17m at 2.15% Cu from 32m and 11m at 0.6g/t Au from 34m.

A Sub Audio Magnetic survey indicated a total interpreted mineralised trend length of 3600m for the Las Minerale prospect.

Significant native copper mineralisation has been intersected in altered dolerite and clays and in massive quartz-carbonate breccias.

On~17~July~2006, CuDeco~(the~renamed~Australian~Mining~Investments)~reannounced~the~inferred~resource~as~25Mt~at~1.57%~Cu,

818ppm Co and 0.2g/t Au, with an "exploration target" of 40 to 50Mt at similar grades outside of and below the resource zone.

Copper-cobalt-gold mineralisation occurs associated with magnetite alteration in a shear zone along the contact of a metavolcanic unit and a metavolcanic-metapelite unit.

In November 2006, CuDeco announced that drilling had identified new zones of copper mineralisation, with the discovery of zones subparallel to Las Minerale. The main Las Minerale zone appears to be dipping 80 to 85 degrees to the west at 150m depth.

Visual sulphide mineralisation in core includes pyrrhotite, pyrite, chalcopyrite and chalcocite associated with quartz and carbonates in K-feldspar-magnetite altered dolerite and massive quartz-carbonate-actinolite rock.

Drill intersections included 47m at 0.92% Cu from 65m, 19m at 1.37% Cu from 117m and 23m at 5.17% Cu from 137m (including 17m at 6.78% Cu).

Resource infill drilling continued in 2008. Intersections included 133m at 6.13% Cu from 3m, including 118m at 6.84% Cu from 18m and 28m at 15.31% Cu from 34m. Wide zones of cobalt mineralisation have also been intersected.

Drilling continued in 2009. Results announced for the June 2009 quarter included 59m at 8.32% Cu, 146m at 7.02% Cu, 117m at 5.35% Cu, 71m at 4.88% Cu, 14m at 7.19% Cu, 20m at 5.11% Cu, 82m at 4.99% Cu and 11m at 8.78% Cu.

Deep core drilling along strike and under Las Minerale confirmed the existence of a significant mineralised structure running subparallel to and south of Las Minerale. A 75m mineralised intersection included 50m with chalcopyrite.

Deep drilling has confirmed that the Las Minerale zone extends for >470m down dip.

Cudeco in 2011 reported updated resource figures of a combined measured and indicated resource of 30.3Mt @ 1.70% CuEq. Estimates are based on all 3793 drill holes (306671.2m) including 305 diamond holes (69521.0m) and 1458 Re holes (225207.5m) (BR9701).

In September 2010 CuDeCo reports a mining and processing costs assessment by independent metallurgical and mining consultants completed, based on processing of initial 30.9Mt @ 1.24% Cu Eq resource (389,000 t Cu) for 3MtPa process facility (BR9581) September 2010: Total resource for Rocklands of 1029 Mt copper equivalent (see resource figures (BR9581).

In December 2015 CuDeco reported a Rocklands maiden reserve estimate: Total ore reserve of 28Mt @ 0.9% spec_CuEq (0.71% Cu, 0.14g/t Au, 357ppm Co, 6.7% Mag), including a high grade ore reserve of 10Mt @ 1.61% Spec_CuEq (BR10432).

In 2014 CuDeco has arranged with Glencore Plc to supply 20,000 t of ore from Rocklands for toll-treatment at its Ernest Henry processing plant, and the results reported as surpassing expectations (BR10330).

2014 CuDeco mined wide zones of direct shipping ore in Las Minerale from high grade oxide and sulphide ore which was crushed and stockpiled for shipping to China smelters (BR10334).

In Dec 2014 CuDeco received assay results from selected sample of copper/gold concentrate produced from recently completed 22000 tonne bulk ore processing trail. Copper in concentrate = 37.6% Cu. Gold in concentrate = 8.5 g/t Au (BR10332).

In addition to the mining at Las Minerale in 2014, preliminary mining has been carried out at the Rocklands South orebody that displays similar mineralisation characteristics to Las Minerale (previously known as Double Oxide)

In 2014 open cut mining commenced at Las Minerale. The excavation is designed to access 5000 t of coarse native copper to be used for the commissioning of the Rocklands three stage crushing circuit and the ore stockpiled pending completion of the plant.

A Summary of Major Mineral Resources, Mines and Projects, 2016

393,000.0 australian dollars

482234 LAVA PLAINS

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 26.9 KM N OF CONJUBOY HOMESTEAD.

1:100 000 sheet Number and Name: 7861 SAINT RONANS

Grid Reference: Zone 55 263014 mE 7960070 mN Latitude -18.4363 Longitude 144.7563 Date Recorded: 25/May/2015

Other Names for Deposit / Mine

Thai Mine Scott'S Mine

CommoditiesSizeSize DefinitionSAPPHIREMEDIUM1 - 10 tonnes SAPP

Production Details

Period: 1-Jan-1985 to 31-Dec-1993

SAPPHIRE

Period: 1-Jul-2004 to 30-Jun-2013

SAPPHIRE 66,252.0 australian dollars

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations Comments

SURFACE MINING METHODS

Tenure Type/Number SHARE Company Name/Surname

ML 10314 100.00% MT ROSEY MINING COMPANY PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

CAINOZOIC ALLUVIAL & COLLUVIAL Qa-QLD / QUATERNARY to QUATERNARY

DEPOSITS

Deposit Model

GENERAL OREBODY MODEL ALLUVIAL PLACER

DETAILED OREBODY MODEL ALLUVIAL/ELUVIAL GEMSTONES

Mineralisation Age

ORE CENOZOIC

Comments

Gem quality sapphires have been mined for more than 20 years from the Wyandotte Creek area. Sapphires have been recovered from aluvial wash and from colluvium on adjacent hill slopes. The sapphires are derived from Cainozoic basalt and pyroclastic units.

A Summary of Major Mineral Resources, Mines and Projects, 2016

481369 LIGHTHOUSE

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: ~15 KM NNE OF EINASLEIGH. LIGHTHOUSE QUARTZ BLUFFS, NEAR GRANITE KNOBS

1:100 000 sheet Number and Name: 7761 MOUNT SURPRISE

Grid Reference: Zone 55 201335 mE 7963841 mN Latitude -18.3944 Longitude 144.1733 Date Recorded: 25/May/2015

Other Names for Deposit / Mine

Lighthouse Extended Lighthouse Bluffs

Commodities Size Size Definition

LUMP SILICA LARGE >1 000 000 tonnes SIL

Production Details

Published Reserves/Resources

BR 9836 Published in 2012

LIGHTHOUSE

INFERRED MINERAL RESOURCE 1,830,000 tonnes Ore @

1,830,000 Tonnes SILICA

Resource figures listed above are JORC compliant

Published Reference ID Year Author Title Source

BR 9836 2012 SOLAR SILICON LIGHTHOUSE SILICA QUARTZ HTTP://WWW.SSRG.COM.SG/LIG

RESOURCES GROUP PTE (VIDEO ON WEBPAGE - HTHOUSE

LTD FEBRUARY 2012)

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations

Tenure Type	e/Number	SHARE	Company Name/Surname
ML	30209	100.00%	SOLAR SILICON RESOURCES GROUP PTE. LTD.

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

ETHERIDGE PROVINCE Einasleigh Metamorphics / PALAEOPROTEROZOIC to

PALAEOPROTEROZOIC

Deposit Model

GENERAL OREBODY MODEL MESOTHERMAL VEINS/PIPE/STOCKWORK VEIN

DETAILED OREBODY MODEL ROCK SILICA

Mineralisation Age

Comments

2011: The Singapore based company Solar Silicon Resources Group Pte have taken over ownership and commenced mining in 2011 and the current mining capacity is 1000 tonnes a day. Processing is a simple acid wash to clean the surface, the crushed lump silica 2011 (cont): is trucked to Townsville for export. The quartz is suitable for use as feedstock for silicon smelters, expoxy molding components, industrial fillers, fused quartz glass and LCD glass substrates.

201(2): Solar Silicon is currently involved in a joint venture collaboration agreement to commerialise its new "one pass direct conversion" of the high-grade quartz to solar-grade silicon with one a major manufacturer of photovoltaic solar panels in China In 2012 a JORC resource was displayed in a video on http://www.ssrg.com.sg/lighthouse: The two prominent hills contain quartz of 99.8% SiO2 with a JORC resource (unspecified lvl -> inferred) of 1.83Mt; with an estimate of further resources of 3-5Mt. Calcifer Industrial Minerals were granted a ML in 2009 and carried out a feasibilty study, geochemical tests and preparations for plant construction on site; Loose qtz was screened, washed and stockpiled, a tailings dam was built; An ML extension is appl

Web Page

http://www.ssrg.com.sg/lighthouse

A Summary of Major Mineral Resources, Mines and Projects, 2016

504551 LOCKYER SANDSTONE QUARRY

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: SEVENTEEN MILE RD, HELIDON

1:100 000 sheet Number and Name: 9342 HELIDON

Grid Reference: Zone 56 415211 mE 6954952 mN Latitude -27.5265 Longitude 152.1414 Date Recorded: 13/February/2017

Other Names for Deposit / Mine

Regent

Commodities Size Size Definition

 BUILDING STONE
 SMALL
 100 000 - 2 000 000 tonnes BLST

 SANDSTONE
 MEDIUM
 100 000 - 1 000 000 tonnes SST

Production Details

Period: 1-Jul-2004 to 30-Jun-2016

SANDSTONE 372,655.2 tonnes

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations Comments

OPEN CUT MINING

Tenure Type/NumberSHARECompany Name/SurnameML50182100.00%HELIDON SANDSTONE INDUSTRIES PTY LTDML50282100.00%HELIDON SANDSTONE INDUSTRIES PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

CLARENCE-MORETON BASIN Woogaroo Subgroup / LATE TRIASSIC to EARLY JURASSIC

Deposit Model

GENERAL OREBODY MODEL SEDIMENT-HOSTED DEPOSIT

Mineralisation Age

ORE LATE TRIASSIC to EARLY JURASSIC

Comments

The quarry has small to moderate resources, with suitable fine to medium-grained sandstone of good colour limited to a single bed ~2-3m thick sandwiched between 3-4m of weathered coarse sandstone and unsuitable coarse sandstone.

The lease is now held and operated by Helidon Sandstone Industries Pty Ltd.

This quarry was developed in 1986/87 by Lockyer Sandstone Pty Ltd, part of a consortium of companies (Australian Stone Consultants Pty Ltd and Resort Development Consultants Pty Ltd) that based their operations in Gatton.

In 1989, the Gatton processing plant was relocated to Lot 92, near Seventeen Mile Road, north-east of Helidon following a restructure of the company. Sandstone blocks were extracted from two separate faces developed on opposite sides of a gully.

Cut blocks were processed into tiles, thin slabs, blocks (split face), crazy paving and monumental stone.

Web Page

www.sandstoneathelidon.com

A Summary of Major Mineral Resources, Mines and Projects, 2016

43621 LORENA

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 14.8 KM EAST OF CLONCURRY, 115KM EAST OF MT ISA.

1:100 000 sheet Number and Name: 7056 CLONCURRY

Grid Reference: Zone 54 463421 mE 7708936 mN Latitude -20.7187 Longitude 140.6487 Date Recorded: 3/February/2017

Other Names for Deposit / Mine

CommoditiesSizeSize DefinitionGOLDSMALL0.5 - 5 tonnes AUCOBALTVERY SMALL<10 tonnes CO</td>COPPERVERY SMALL<500 tonnes CU</td>

Production Details

Period: 1-Jan-1990 to 31-Dec-1990 4,880 tonnes HARD ROCK ORE (OR REEF)

GOLD BULLION 168.8 kilograms 34.60 grams per tonne Period: 1-Jul-1996 to 30-Jun-2000

GOLD BULLION 76.6 kilograms

Published Reserves/Resources

BR 10379 Published in 2014 LORENA - A LODE

INDICATED MINERAL RESOURCE 110,800 tonnes Ore @

9.50 g/t GOLD FOR 1,052 Kilograms GOLD

Comments/Cut Off Factor: 2.0g/t Au cut off

BR 10379 Published in 2014 LORENA - A LODE

MEASURED MINERAL RESOURCE 68,700 tonnes Ore @

7.60 g/t GOLD FOR 522 Kilograms GOLD

Comments/Cut Off Factor: 2.0g/t Au cut off

BR 10379 Published in 2014 LORENA - B LODE

INDICATED MINERAL RESOURCE 3,100 tonnes Ore @

8.30 g/t GOLD **FOR** 25 Kilograms GOLD

Comments/Cut Off Factor: 2.0g/t Au cut off

BR 10379 Published in 2014 LORENA - B LODE

INFERRED MINERAL RESOURCE 20,600 tonnes Ore @

7.70 g/t GOLD **FOR** 158 Kilograms GOLD

Comments/Cut Off Factor: 2.0g/t Au cut off

Resource figures listed above are JORC compliant.

Published Reference ID Year Author Title Source

BR 10379 2014 MALACHITE RESOURCES ANNUAL REPORT 2014 ANNOUNCEMENT TO THE

AUSTRALIAN STOCK EXCHANGE OCTOBER 2014. MALACHITE RESOURCES LTD

Major Mining Related Events

Year Commenced Year Completed Comments

1990 to 2000 Mined by Lorena Mines Pty Ltd.

2000 to 2001 Placed on care and maintenance.

Mining Operations Comments

OPEN CUT MINING Excavated by Lorena MInes Pty Ltd

UNDERGROUND MINING METHODS Old workings

Tenure Type/Number		SHARE	Company Name/Surname	
ML	7147	100.00%	VOLGA ELDERBERRY PTY LTD	
ML	90192	100.00%	VOLGA ELDERBERRY PTY LTD	
ML	90193	100.00%	VOLGA ELDERBERRY PTY LTD	
ML	90194	100.00%	VOLGA ELDERBERRY PTY LTD	
ML	90195	100.00%	VOLGA ELDERBERRY PTY LTD	
MI.	90196	100 00%	VOLGA ELDERBERRY PTY LTD	

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

SOLDIERS CAP DOMAIN Staveley Formation / PALAEOPROTEROZOIC to

PALAEOPROTEROZOIC

A Summary of Major Mineral Resources, Mines and Projects, 2016

Deposit Model

GENERAL OREBODY MODEL HYDROTHERMAL VEINS/PIPE/STOCKWORK
DETAILED OREBODY MODEL PROTEROZOIC STRUCTURALLY-CONTROLLED

COPPER-GOLD

Mineralisation Age

ORE MESOPROTEROZOIC

Comments

Gold mineralisation occurs within strongly quartz-calcite veined and silicified dolomitic shales of the Toole Creek Volcanics near the contact with the overlying Corella Formation.

2013: Malachite Resources intend to ship the entierely refractary ore concentrate to Tasmania for BIOX processing. This failed since BCD went into receivership in 2014.

In March 2016 Malachite Resources announced an agreement with Ore Processing Services Pty Limited (OPS) to establish and operate a mobile mineral processing plant at the Lorena gold mine.

OPS are required to both complete the Lorena concentrator plant and to simply a modular CIL circuit to provide an end to end mineral processing plant capable of producing gold dore on site, which should produce around 35 000 oz (850 kg) (cont.) of recovered gold in an eighteen month production period from the open cut deposit (BR10504).

Web Page

http://www.malachite.com.au

A Summary of Major Mineral Resources, Mines and Projects, 2016

41019 **MARULE LIME**

OPERATING MINE

Descriptive Location: 22KM WNW OF CHILDERS 1:100 000 sheet Number and Name: 9347 CHILDERS

Grid Reference: Zone 56 407812 mE 7218997 mN Latitude -25.1421 Longitude 152.0854 Date Recorded: 13/February/2017

Other Names for Deposit / Mine

Scarlett

Commodities Size Definition Size

LIMESTONE **SMALL** 100 000 - 2 000 000 tonnes LST

Production Details

1-Jul-1997 Period: 30-Jun-2016

LIMESTONE CRUSHED ROCK 58,497.0 tonnes

Published Reserves/Resources

BR 3333 Published in 1990 MARULE LIME

INFERRED MINERAL RESOURCE 400.000 tonnes Ore @

400,000 Tonnes LIMESTONE

Resource figures listed above are NOT JORC compliant.

Title Source **Published Reference ID** Year Author

QUEENSLAND MINERAL OUEENSLAND GOVERNMENT BR 3333 1990 KROSCH, N.J. MINING JOURNAL, 91, 93-102.

COMMODITY

REPORT-LIMESTONE

Major Mining Related Events

Year Commenced Year Completed Comments

1928 1928 LEASE APPLIED FOR IN 1928 to

1984 OPERATED BY HOWARD PORTLAND CEMENT CO PTY LTD TO PRODUCE 1984 to

LIMESTONE FOR AGRICULTURAL USE.

1997 Operated by KD Scarlett.

Mining Operations Comments

OPEN CUT MINING

SHARE Tenure Type/Number Company Name/Surname Christian Name 100.00% **SCARLETT** ML1248 Kevin Donn

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

GYMPIE PROVINCE Gympie Group/l / EARLY PERMIAN to EARLY PERMIAN

Deposit Model

GENERAL OREBODY MODEL RESIDUAL DEPOSIT

DETAILED OREBODY MODEL ENRICHED LIME DEPOSIT

Mineralisation Age

PERMIAN to CARBONIFEROUS ORE

Comments

Limestone grades 43.1-47.2% CaO, 0.5% MgO and 37.2% loss on ignition. The mine produces pulverised limestone for the local sugar

cane farm market

A Summary of Major Mineral Resources, Mines and Projects, 2016

504554 MAYNE RIVER

OPERATING MINE

Descriptive Location: 85KM S OF CORK GYPSUM 1:100 000 sheet Number and Name: 7350 TONKORO

Grid Reference: Zone 54 611434 mE 7392190 mN Latitude -23.5768 Longitude 142.0920 Date Recorded: 13/February/2017

Other Names for Deposit / Mine

Eden Valley

Mayne River Gypsum Mayne River Gypsum Sales Mount Windsor Gypsum

Commodities Size Definition

GYPSUM SMALL 5 000 - 5 000 000 tonnes GYP

Production Details

Period: 1-Jul-1997 to 30-Jun-2016

GYPSUM 108,106.0 tonnes

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations Comments

OPEN CUT MINING

 Tenure Type/Number
 SHARE
 Company Name/Surname
 Christian Name

 ML
 95239
 50.00%
 COUPE
 Geoffrey Ivan

 ML
 95239
 50.00%
 COUPE
 Betty Marleen

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

CAINOZOIC SEDIMENTARY COVER

Deposit Model

GENERAL OREBODY MODEL ALLUVIAL PLACER

Mineralisation Age

ORE CENOZOIC

Comments

The Mayne River gypsum deposits occur in alluvium overlying the Winton Formation and have been worked in recent years. Mayne River Gypsum Sales Pty Ltd have worked deposits in the Winton Formation a further 80km to the SSW. - BR 6194.

The gypsum is produced in Winton and sold for agricultural purposes.

A Summary of Major Mineral Resources, Mines and Projects, 2016

493993 MILES

OPERATING MINE

Descriptive Location: 5KM SW OF MILES, 300KM WEST OF BRISBANE.

1:100 000 sheet Number and Name: 8944 MILES

Grid Reference: Zone 56 216430 mE 7044278 mN Latitude -26.6940 Longitude 150.1503 Date Recorded: 14/February/2017

Other Names for Deposit / Mine

Commodities Size Definition

BENTONITE MEDIUM 200 000 - 20 000 000 tonnes BENT

Production Details

Period: 1-Jul-1995 to 30-Jun-2016

BENTONITE 138,360.1 tonnes

Published Reserves/Resources

BR 5762 Published in 1998

INFERRED MINERAL RESOURCE

3,300,000 Tonnes BENTONITE

Resource figures listed above are NOT JORC compliant.

Published Reference ID Year Author Title Source

BR 5762 1998 NEDLANDS, W.A. REGISTER OF AUSTRALIAN

MINING 1998/99.

Major Mining Related Events

Year Commenced Year Completed Comments

Mining operations started in 1994.

Mining Operations Comments

OPEN CUT MINING

Tenure Type/NumberSHARECompany Name/SurnameML5910100.00%BIOCLAY PTY LTDML5911100.00%BIOCLAY PTY LTDML6960100.00%BIOCLAY PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

SURAT BASIN Orallo Formation / EARLY CRETACEOUS to EARLY CRETACEOUS

Deposit Model

GENERAL OREBODY MODEL RESIDUAL DEPOSIT

DETAILED OREBODY MODEL SEDIMENTARY CLAY DEPOSITS

Mineralisation Age

ORE JURASSIC

Comments

Bentonite quarry owned by Bioclay Pty Ltd. Sodium bentonite is produced for local and export industrial and feedstock markets. (2011) This bentonite is used primarily for stock feed and pet litter and is processed in a plant with a 20 000tpa capacity. Resources are claimed to be sufficient for next 20 years at current production rates.

A Summary of Major Mineral Resources, Mines and Projects, 2016

507505 MONIER DARRA

OPERATING MINE

Descriptive Location: ADJACENT TO IPSWICH MOTOR WAY AT DARRA.

1:100 000 sheet Number and Name: 9442 IPSWICH

Grid Reference: Zone 56 496873 mE 6950210 mN Latitude -27.5719 Longitude 152.9683 Date Recorded: 7/February/2017

Other Names for Deposit / Mine

Commodities Size Definition

BRICK CLAY MEDIUM 200 000 - 20 000 000 tonnes BKCY

Production Details

Period: 1-Jul-1998 to 30-Jun-2016

BRICK CLAY 1,728,624.0 tonnes

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations Comments

OPEN CUT MINING

Tenure Type/Number SHARE Company Name/Surname

ML 1102 100.00% CSR BUILDING PRODUCTS LIMITED

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

OXLEY BASIN Darra Formation / LATE TERTIARY to LATE TERTIARY

Deposit Model

GENERAL OREBODY MODEL SEDIMENT-HOSTED DEPOSIT

DETAILED OREBODY MODEL SEDIMENTARY CLAY DEPOSITS

Mineralisation Age

ORE TERTIARY

Comments

Web Page

www.csr.com.au

A Summary of Major Mineral Resources, Mines and Projects, 2016

507503 MONIER IPSWICH

OPERATING MINE

Descriptive Location: 7.5KM E OF IPSWICH, 1.3KM S OF DINMORE.

1:100 000 sheet Number and Name: 9442 IPSWICH

Grid Reference: Zone 56 484112 mE 6946687 mN Latitude -27.6036 Longitude 152.8390 Date Recorded: 11/December/2015

Other Names for Deposit / Mine

Dinmore

Commodities Size Size Definition

BRICK CLAY MEDIUM 200 000 - 20 000 000 tonnes BKCY

Production Details

Period: 1-Jul-1996 to 30-Jun-2015

BRICK CLAY 1,551,998.0 tonnes

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations Comments

OPEN CUT MINING

Tenure Typ	e/Number	SHARE	Company Name/Surname	
ML	4552	100.00%	CSR BUILDING PRODUCTS LIMITED	
ML	4604	100.00%	CSR BUILDING PRODUCTS LIMITED	
ML	4639	100.00%	CSR BUILDING PRODUCTS LIMITED	
ML	4640	100.00%	CSR BUILDING PRODUCTS LIMITED	
ML	4706	100.00%	CSR BUILDING PRODUCTS LIMITED	
ML	50028	100.00%	CSR BUILDING PRODUCTS LIMITED	
ML	50144	100.00%	CSR BUILDING PRODUCTS LIMITED	

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

BOOVAL BASIN Redbank Plains Formation / EARLY TERTIARY to EARLY TERTIARY

Deposit Model

GENERAL OREBODY MODEL SEDIMENT-HOSTED DEPOSIT

DETAILED OREBODY MODEL SEDIMENTARY CLAY DEPOSITS

Mineralisation Age

ORE TERTIARY

Comments

Web Page

www.csr.com.au

A Summary of Major Mineral Resources, Mines and Projects, 2016

504526 MONTGOMERY

OPERATING MINE

Descriptive Location: 5.6 KM NORTH-WEST OF HELIDON, 90KM WEST OF BRISBANE.

1:100 000 sheet Number and Name: 9342 HELIDON

Grid Reference: Zone 56 411236 mE 6957780 mN Latitude -27.5006 Longitude 152.1014 10/February/2017 Date Recorded:

Other Names for Deposit / Mine

Montgomery Sandstone Quarry

Commodities Size Definition Size

BUILDING STONE **SMALL** 100 000 - 2 000 000 tonnes BLST SANDSTONE **MEDIUM** 100 000 - 1 000 000 tonnes SST

Production Details

Period: 1-Jul-1996 30-Jun-2016

SANDSTONE 148,095.0 tonnes

Published Reserves/Resources

BR 6192 Published in 2000

MONTGOMERY SANDSTONE INDICATED MINERAL RESOURCE

95.600 Tonnes SANDSTONE

Probable reserves and Indicated resources of sandstone as at December 1992.

Resource figures listed above are NOT JORC compliant.

Published Reference ID

Year Author BR 6192

2000 NEVILLE BJ, WILLMOTT WF, O'FLYNN ML,

POTTER R

Title

KEY RESOURCE AREAS FOR

SANDSTONE BUILDING STONE. EXTRACTIVE MATERIALS AND

EXPLOSIVES INDUSTRY HELIDON AREA (DRAFT). Source

DEPARTMENT OF MINES AND ENERGY KEY RESOURCE AREA

REPORT NO.3

Major Mining Related Events

Year Commenced 1992

Year Completed

Comments

Australian Sandstone Industries Limited commenced operations around several old workings.

Mining Operations

OPEN CUT MINING

Comments

Tenure Typ	e/Number	SHARE	Company Name/Surname
ML	50016	100.00%	CHONGHERR INVESTMENTS LTD
ML	50213	100.00%	CHONGHERR INVESTMENTS LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

CLARENCE-MORETON BASIN Helidon Sandstone / TRIASSIC to TRIASSIC

Deposit Model

GENERAL OREBODY MODEL SEDIMENT-HOSTED DEPOSIT

Mineralisation Age

ORE LATE TRIASSIC to EARLY JURASSIC

Comments

The company is now called ChongHerr Investments Ltd. Blocks of about 10 tonnes each are cut and extracted from the quarry and transported by road to the company's processing facility at Archerfield in Brisbane or directly to the wharf for export.

Products include tiles, wall cladding and other architectural and decorative pieces as well as furniture and sculptures. Waste stone from quarrying is used for wall construction and landscaping purposes. Some stone is sold for monumental use also.

The company supplies stone and finished products to both domestic and export markets.

In early 1992, Australian Sandstone Industries Ltd moved its quarrying operations from ML 50013 to ML 50016 (Montgomery Quarry) and developed its operations around several old workings in a worked out section of Montgomery's gravel scrapings.

Web Page

www.asisandstone.com.au

A Summary of Major Mineral Resources, Mines and Projects, 2016

507797 MORETON DOLOMITE

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 24.6KM SOUTH OF IPSWICH, ACCESS FROM VERALLS RD OFF LIMESTONE HILL RD.

1:100 000 sheet Number and Name: 9442 IPSWICH

Grid Reference: Zone 56 472039 mE 6921069 mN Latitude -27.8348 Longitude 152.7161 10/February/2017 Date Recorded:

Other Names for Deposit / Mine

Area 101 & 100

Peak Crossing No.2 Lease

Commodities **Size Definition** Size

EARTHY LIME / DOLOMITE (AGRICULTURAL) **SMALL** 10 000 - 100 000 tonnes ELIM BRICK CLAY **SMALL** 2 000 - 200 000 tonnes BKCY

PALYGORSKITE

Production Details

Period: 1-Jul-1998 30-Jun-2015

EARTHY LIME / DOLOMITE (AGRICULTURAL) 34.862.0 tonnes

Period: 1-Jul-2003 30-Jun-2008

CLAY 147,035.0 tonnes

Period: 1-Jul-2010 30-Jun-2015

PALYGORSKITE 3,888.0 tonnes

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Source Published Reference ID Year Author

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations Comments

OPEN CUT MINING Shallow open cut pit

Tenure Type/Number **SHARE** Company Name/Surname ML50015 50.00% TREVALLYN ENTERPRISES PTY. LIMITED MI. 50015 50.00% MORETON DOLOMITE PTY LTD TREVALLYN ENTERPRISES PTY. LIMITED ML 50036 50.00% ML 50.00% MORETON DOLOMITE PTY LTD 50036 ML 50038 50.00% TREVALLYN ENTERPRISES PTY. LIMITED

50038 **Host Rock/Cover Sequences**

Structural Unit Formation Name/Age

50.00%

AMBERLEY BASIN Flinders Dolomite / EARLY TERTIARY to EARLY TERTIARY

MORETON DOLOMITE PTY LTD

Deposit Model

ML.

GENERAL OREBODY MODEL SEDIMENT-HOSTED DEPOSIT

DETAILED OREBODY MODEL DOLOMITE DEPOSIT

Mineralisation Age

ORE **TERTIARY**

Comments

At area B (portion 101) Newage carried out mapping and gridding (Nov 1990). 3 costeans were excavated accross outcropping dolomite. By Jan 1991 22 RC and hammer holes (RC01-22) totalling 286m were drilled, which outlined a resource of agricultural-grade

(cont.) dolomite, which was covered with a mining lease (ML50015). Mining started following granting of ML on 20 August 1991

A Summary of Major Mineral Resources, Mines and Projects, 2016

41031 **MOUNT BIGGENDEN**

OPERATING MINE

38.4KM ENE OF GAYNDAH; MOUNT BIGGENDEN MINE Descriptive Location:

1:100 000 sheet Number and Name: 9246 GAYNDAH

Grid Reference: Zone 56 397383 mE 7175130 mN Latitude -25.5375 Longitude 151.9786 Date Recorded: 25/May/2015

Other Names for Deposit / Mine

Biggenden Quarry

Mount Biggenden Magnetite Mine

Biggenden Bismuth And Gold Mine

Biggenden Bismuth Mine

Mount Biggenden Mine

Biggenden Gold And Bismuth Mine

Mount Riggenden Rismuth Mine

iviount Biggenden Bismuth iviine		
Commodities	Size	Size Definition
MAGNETITE	MEDIUM	500 000 - 1 000 000 tonnes MT
GOLD	SMALL	0.5 - 5 tonnes AU
BISMUTH	SMALL	50 - 5 000 tonnes BI
AGGREGATE		
LIMESTONE	VERY SMALL	<100 000 tonnes LST
SILVER	VERY SMALL	<5 tonnes AG
COPPER	VERY SMALL	<500 tonnes CU
COBALT	VERY SMALL	<10 tonnes CO
MOLYBDENUM	VERY SMALL	<50 tonnes MO
Production Details		
Period: 1-Jan-1890 to 31-Dec-1895		
GOLD BULLION	224.4 kilograms	
BISMUTHINITE	309.7 tonnes	

Period: 1-Jan-1894 31-Dec-1894

BULLION **GOLD** 12.3 kilograms

Period: 1-Jan-1901 31-Dec-1904

BISMUTHINITE 18.8 tonnes

1-Jan-1902 31-Dec-1902 Period: to

CRUSHED ROCK LIMESTONE 203.2 tonnes

Period: 1-Jan-1903 31-Dec-1903

GOLD BULLION 8.7 kilograms

Period: 1-Jan-1909 31-Dec-1912 to

BISMUTHINITE 224.9 tonnes **GOLD BULLION** 1,251.6 kilograms

COPPER **METAL** 5.9 tonnes

Period: 1-Jan-1931 31-Dec-1931

BULLION GOLD 0.0 kilograms

Period: 1-Jan-1934 31-Dec-1938 23,737 tonnes HARD ROCK ORE (OR REEF)

BISMUTHINITE 59.2 tonnes

BULLION **GOLD** 14.4 kilograms 0.60 grams per tonne

Period: 1-Jan-1942 31-Dec-1954

MAGNETITE

18,622.3 tonnes Period: 1-Jan-1967 30-Jun-1999 to

MAGNETITE 721,840.0 tonnes **BISMUTHINITE** 1,000.0 tonnes

Period: 1-Jan-1975 31-Dec-1985

AGGREGATE 500,000.0 tonnes

1-Jul-1996 30-Jun-1999 Period: to

AGGREGATE 43,746.0 tonnes

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID Year Author	Title	Source	
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A Summary of Major Mineral Resources, Mines and Projects, 2016

Major	Mining	Related	Events

Year Comme 1888	nced to	Year Completed 1896	Comments MacTaggert and party discovered bismuth mineralisation in 1888. The Biggenden Bismuth Company commenced mining in 1889. Treatment was by wet and dry magnetic separation. The mine closed in 1895 due to the lack of a market for the bismuth.
1897	to	1899	The Biggenden Mining Company commenced operations in 1898, with a focus on gold, due to the low bismuth prices. No production was reported.
1900	to	1907	Mining restarted under new management. Lack of water for the mill disrupted operations. Tailings were treated in 1903.
1908	to	1914	Purchased by International Mines Ltd. Ore concentrated on site; concentrates sent to Elliott Bros chemical works in Sydney. The mill was improved in 1909 but the mine closed in 1913. The mill was almost completely destroyed by fire in 1914.
1915	to	1931	Purchased by TJ Brady. The State Government investigated the deposit as a source of iron ore for pig iron production and carried out drilling in 1919; reserves were insufficient. The lease was under exemption up until 1931.
1931	to	1932	E Kimmerfeld reached an agreement with the lease holder and installed a plant to treat soil from below the lode outcrops for gold.
1933	to	1935	Bismuth Products Ltd acquired the leases at the end of 1933. A new mill and machinery were erected in 1934 and mining resumed. Bi-Au concentrates were shipped to OT Lempriere and Company in Sydney to produce refined Bi for medical purposes.
1936	to	1940	Operations were suspended in 1936 due to an overproduction of bismuth. Mining resumed in July 1937, but the mine closed again in 1938 due to low Bi prices. The mine was completely closed down and the machinery sold or removed in 1940.
1942	to	1959	Queensland Cement and Lime Company produced ironstone from the mill tailings and dumps. The material was trucked to Biggenden and railed to the Darra Cement Works in Brisbane for cement manufacture. Production ceased in 1955.
1951	to	1961	HB Trigger acquired some leases from Queensland Cement and Lime. Some testing was done with a view to producing magnetite for uranium ore processing at Rum Jungle. These leases were under exemption.
1961	to	1962	Leases held by Bonel brothers and Sanders brothers. Exploratory work only.
1965	to	1971	Commercial Minerals Pty Ltd installed plant and machinery in 1966 and commenced magnetite and by-product Bi production in 1967 from the open cut. Finely powdered magnetite was supplied to heavy media coal washing plants in Qld and NSW.
1972	to	1999	Commercial Minerals became a wholly-owned subsidiary of Steetley Industries Ltd. In 1976, a decline was excavated to provide access for underground mining on 9 levels. In 1999, mining ceased and the mine was closed.
1999			The mine was sold to a Maryborough firm (JS McIntyre) as a hard rock quarry. Biggenden Quarry crushes waste dump material to produce aggregate, road base, screenings, cement products and crusher dust.
Aining Operat	ions		Comments
OPEN CU	Γ MININ	lG	Large open cut with two deeper zones of stoping/glory holes.
UNDERGE	ROUND	MINING METHOD	os —

1999	The mine was sold to a Maryborough firm (JS McIntyre) as a hard rock quarry. Biggenden Quarry crushes waste dump material to produce aggregate, road base, screenings, cement products and crusher dust.	
Mining Operations	Comments	
OPEN CUT MINING	Large open cut with two deeper zones of stoping/glory holes.	
UNDERGROUND MINING METHODS		
SHAFTS		
DECLINED SHAFTS/DRIVES	Entrance sealed for safety.	
ADITS		
STOPING	Large block cave stopes exposed under walls of open cut.	

A Summary of Major Mineral Resources, Mines and Projects, 2016

Tenure Type/Number		SHARE	Company Name/Surname	Christian Name
ML	3679	50.00%	MCINTYRE	John Stewart
ML	3679	50.00%	MCINTYRE	Mary Josephine
ML	3683	50.00%	MCINTYRE	John Stewart
ML	3683	50.00%	MCINTYRE	Mary Josephine
ML	3684	50.00%	MCINTYRE	John Stewart
ML	3684	50.00%	MCINTYRE	Mary Josephine
ML	3685	50.00%	MCINTYRE	John Stewart
ML	3685	50.00%	MCINTYRE	Mary Josephine
ML	3688	50.00%	MCINTYRE	John Stewart
ML	3688	50.00%	MCINTYRE	Mary Josephine
ML	3692	50.00%	MCINTYRE	John Stewart
ML	3692	50.00%	MCINTYRE	Mary Josephine
ML	6604	50.00%	MCINTYRE	John Stewart
ML	6604	50.00%	MCINTYRE	Mary Josephine
ML	50039	50.00%	MCINTYRE	John Stewart
ML	50039	50.00%	MCINTYRE	Mary Josephine

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

GYMPIE PROVINCE Gympie Group / EARLY PERMIAN to LATE PERMIAN

Deposit Model

GENERAL OREBODY MODEL SKARN
DETAILED OREBODY MODEL IRON SKARN

Mineralisation Age

ORE LATE TRIASSIC

Comments

Small-scale Au and Bi mining has taken place at Mount Biggenden since the late 1880s. From 1967 to 1999, Commercial Minerals Pty Ltd produced magnetite for coal washing. J.S. McIntyre currently produces crushed aggregate from the waste dumps.

Magnetite skarn occurs in hornfelsed mafic volcanics and metasediments of the Gympie Group close to the contact with the Degilbo Granite. Bismuth, gold and molybdenite mineralisation occur in the skarn.

Fluid inclusions in prograde calcite and garnet have high homogenisation temperatures (500-550 degrees C) and high salinities (~30 wt% NaCl eq.) (BR 7110).

Fluid inclusions in sulphide-stage quartz and calcite have 300-400 degrees C homogenisation temperatures and lower salinities. Delta 18O and delta 13C of carbonates show depletion trends characteristic of skarn deposits (BR 7110).

Skarn paragenesis: 1) prograde garnet-clinopyroxene-magnetite-scapolite; 2) early retrograde epidote-hastingsite, followed by chlorite-calcite-actinolite-quartz-sulphides; 3) late-stage retrograde nontronite-calcite-quartz.

Web Page

A Summary of Major Mineral Resources, Mines and Projects, 2016

43750 **MOUNT CARBINE**

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 0.9 KM NORTH-NORTH-WEST OF MOUNT CARBINE, 75KM NW OF CAIRNS.

1:100 000 sheet Number and Name: 7964 RUMULA

Grid Reference: Zone 55 300599 mE 8172185 mN Latitude -16.5239 Longitude 145.1316 Date Recorded: 10/February/2017

Other Names for Deposit / Mine

Mount Carbine Quarries

Commodities Size Definition Size TUNGSTEN LARGE >10 000 tonnes W TIN VERY SMALL <100 tonnes SN

AGGREGATE

SILICA SMALL 1 000 - 1 000 000 t SIO

Production Details

Period: 1-Jan-1972 31-Dec-1986 19,000,000 tonnes HARD ROCK ORE (OR REEF)

WOLFRAMITE 16,400.0 tonnes CASSITERITE 7.8 tonnes

Period: 1-Jul-1997 30-Jun-2004

AGGREGATE

239,082.0 tonnes Period: 1-Jul-2000 30-Jun-2006

AGGREGATE 243,320.0 tonnes Period: 1-Jul-2007 30-Jun-2016

SILICA 825,059.0 tonnes

Published Reserves/Resources

BR 9905 Published in 2012 MT CARBINE HARD ROCK

INDICATED MINERAL RESOURCE 18,100,000 tonnes Ore @

0.14 % WOLFRAMITE **FOR** 25,340 Tonnes WOLFRAMITE

Comments/Cut Off Factor: 0.14% WO3 in insitu hard rock

BR 9905 Published in 2012 MT CARBINE HARD ROCK

INFERRED MINERAL RESOURCE 29,300,000 tonnes Ore @

0.12 % TUNGSTIC OXIDE **FOR** 35,160 Tonnes TUNGSTIC OXIDE

Comments/Cut Off Factor: 0.12% WO3.

BR 9905 Published in 2012 MT CARBINE MAIN STOCKPILE

INDICATED MINERAL RESOURCE 12,000,000 tonnes Ore @

0.07 % WOLFRAMITE FOR 8,400 Tonnes WOLFRAMITE

Comments/Cut Off Factor: 0.07% WO3

in low grade stockpile (mineralised rock from previous mining operations)

BR 8902 Published in 2008

MT CARBINE TAILINGS DAM NO 4

INFERRED MINERAL RESOURCE 1,600,000 tonnes Ore @ 0.11 % WOLFRAMITE FOR 1,760 Tonnes WOLFRAMITE

The resource includes around 400,000t of minus 75 micron material with an estimated grade of 0.3% WO3.

Resource figures listed above are JORC compliant.

Published Reference ID	Year	Author	Title	Source
BR 8902	2008	ICON RESOURCES LTD	ICON RESOURCES LTD	ANNOUNCEMENT TO THE
			ANNUAL REPORT 2008	AUSTRALIAN SECURITIES
				EXCHANGE, 15 OCTOBER 2008.
				ICON RESOURCES LTD,
				SYDNEY.
BR 9905	2012	CARBINE TUNGSTEN	CARBINE TUNGSTEN LIMITED	ANNOUNCEMENT TO THE
		LIMITED	ANNUAL REPORT 2012	AUSTRALIAN SECURITIES
				EXCHANGE, 01 OCTOBER 2012.
				CARBINE TUNGSTEN LIMITED,
				SYDNEY

A Summary of Major Mineral Resources, Mines and Projects, 2016

Major Mining	Related 1	Events	
Year Commenced Year Completed 1883		Year Completed	Comments Discovery.
1003			Discovery.
1894	to	1906	Small scale mining.
1906	to	1917	Major underground mining by the Irvinebank Mining Co. Ten head stamper and jigs installed
			in June 1910. Mill expanded to 20 stamps in 1913.
1937	to	1942	Mining production related to World War II.
1950	to	1952	Mining production related to World War II.
1972	to	1986	Large scale open cut mining by Queensland Wolfram Pty Ltd ending in 1986.
2009			Icon Resources acquired rights to mine Mt Carbine. Test sampling of tailings & stockpile
			material completed and recovery circuit based around on X-ray sorter, Kelsey jigs and shaker tables established in 2011

Mining Operations	Comments
OPEN CUT MINING	

UNDERGROUND MINING METHODS

SHAFTS

ADITS

SURFACE MINING METHODS

DECLINED SHAFTS/DRIVES ~400m long

Tenure Typ	oe/Number	SHARE	Company Name/Surname
ML	4867	100.00%	MT CARBINE QUARRIES PTY LTD
ML	4919	100.00%	MT CARBINE QUARRIES PTY LTD
Host Rock/Cover Sequences Structural Unit		ees	Formation Name/Age
HODGKINSON PROVINCE		INCE	Hodgkinson Formation / EARLY DEVONIAN to LATE DEVONIAN

Deposit ModelGENERAL OREBODY MODEL

INTRUSIVE-RELATED (PORPHYRY-RELATED)

DETAILED OREBODY MODEL WOLFRAM VEINS

Mineralisation Age

ORE EARLY PERMIAN Stage 1

A Summary of Major Mineral Resources, Mines and Projects, 2016

Comments

By the end of 2008, Icon Resources had carried out metallurgical testwork on composite tailings samples that indicated good recoveries with low levels of impurities.

High-grade scheelite and wolframite concentrates were sent to tungsten consumers for evaluation. Re-interpretation and evaluation of historical drill core confirmed zones of high-grade mineralisation beneath the current open cut and extensions to the NW.

The original resource before open cut mining was 28Mt at 0.1% wolframite, using a 0.03% cutoff (BR 937 - de Roo, 1988).

The old waste stockpiles are being used to produce construction aggregate by Mt Carbine Quarries Pty Ltd from 1987 to about 2010. In June 2007, Republic Gold Ltd announced that it had signed a 3-month option to review the Mount Carbine leases with a view to making an offer to purchase. Republic did not proceed with the option.

In March 2008, Icon Resources Ltd announced that it had secured the rights to explore for and mine tungsten at Mount Carbine. The current quarry business will continue to operate.

Icon Resources acquired rights to mine Mt Carbine open cut, stockpiles and tailings dams in 2009. A maiden JORC Inferred resource was announced in October 2010: 113.6Mt at 0.06% WO3 containing 68 800t of WO3 for the primary hard rock res (BR9520).

In late March 2009, Icon Resources signed a non-binding MoU with Polymetals Group Pty Ltd whereby Polymetals can elect to develop and operate the Mt Carbine Tailings Project. Polymetals is also reviewing participating in the open pit project.

Resource modelling in the June 2009 quarter increased the target tonnage/grade at Mt Carbine to 55-60Mt at 0.07 to 0.09% WO3 using uncut values. This excludes the potential of the extensive old workings in the hill abutting the north wall of the pit.

A scoping study commenced in August 2009. The main focus is firming the economics of deepening the existing pit to extract higher grade ore prior to a major cut back in the north pit wall.

In 2011 Icon Resources confirmed data for a 2010 resource estimate for the mineral deposit and a Inferred mineral Resource estimate of 39Mt at 0.14% WO3. Additionally an approx 2Mt resource of fine-grained (sand-sized) material with 0.1% WO3 from the (2011 cont); tailings dams was reported and a fines gravity circuit designed to recover 5000 mtu WO3 per month from the tailings proceeded to be operational at the end of 2011. The main stockpile of 12Mt and the reject stockpile of over 4Mt were tested. (2011 cont2): by bulk sampling (20000t) to yield an average grade of 0.075% WO3. An X-Ray sorting facility has been tested in 2011 to separate barren rock from mineralised rock greatly reducing the feed of ore into the mills (BR9715)

(2011 cont3): Stockpile: Sorter feed 2Mt per year @ 0.075% WO3 -> Mill feed reduced to 250kt/yr to produce ~10000mtu in WO3 concentrate/per month. Hard rock reserve: Sorter feed @ 0.14% WO3 -> Mill feed 250kt/pa at 1.1%WO3 to produce 20000mtu/pm (BR9715).

In 2012 Carbine Tungsten Ltd was renamed from Icon Resources. They reported their first delivery of wolframite concentrate to Mitsubishi Unimetals Corp on the 28th June 2012 (BR9905).

Several zones of sheeted wolframite-, scheelite-, cassiterite- and molybdenite-bearing quartz and quartz-feldspar veins occur in a N-trending belt in an outlier of the thermal aureole of the S-type Mount Carbine Granite, which crops out 500m to the east.

Web Page

http://www.carbinetungsten.com.au/

A Summary of Major Mineral Resources, Mines and Projects, 2016

41623 **MOUNT CARLTON**

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 13.3KM S OF STRATHBOGIE HOMESTEAD; 44.3KM NW OF COLLINSVILLE

1:100 000 sheet Number and Name: 8457 BOGIE

Grid Reference: Zone 55 559087 mE 7758276 mN Latitude -20.2723 Longitude 147.5658 Date Recorded: 13/February/2017

Other Names for Deposit / Mine

V2 Fast

V2 Far East

Mount Carlton Project

Silver Hill

A39

Mount Carlton - Main Hill

Mount Carlton - Western Lodes

Area 39 V2 Hill

Commodities

GOLD SILVER **COPPER**

ZINC

Size MEDIUM **MEDIUM**

MEDIUM

SMALL

Size Definition 5 - 50 tonnes AU 500 - 5 000 tonnes AG

50 000 - 250 000 tonnes CU 200 - 200 000 tonnes ZN

Production Details

Period: 1-Jul-2013 30-Jun-2016

GOLD METAL 8,399.1 kilograms COPPER **METAL** 6,040.0 tonnes **SILVER** 165,541.1 kilograms

Published Reserves/Resources

BR 10501 Published in 2016

MT CARLTON - OC V2 (AU)

MEASURED MINERAL RESOURCE 80,000 tonnes Ore @

9.09 g/t GOLD FOR 727 Kilograms GOLD

Comments/Cut Off Factor: 0.35 g/t cut-off

BR 10501 Published in 2016

MT CARLTON - OC V2 (AU-AG)

INDICATED MINERAL RESOURCE 8,380,000 tonnes Ore @

3.09 g/t GOLD **FOR** 25,894 Kilograms GOLD

Comments/Cut Off Factor: 0.35g/t Au cut-off

Includes probable ore reserves of 4.62 Mt at 4.78 g/t Au;

BR 10501 Published in 2016

MT CARLTON - UG V2 (AU-AG)

INFERRED MINERAL RESOURCE 160.000 tonnes Ore @

5.35 g/t GOLD FOR 856 Kilograms GOLD

Comments/Cut Off Factor: 2.5g/t Au cut-off

Silver and copper values have not been reported in 2015

Resource figures listed above are JORC compliant.

Published Reference ID

Year Author

Title ANNUAL REPORT 2016 Source

BR 10501 2016 EVOLUTION MINING

LIMITED

REPORT TO THE AUSTRALIAN SECURITIES EXCHANGE. 23 OCTOBER 2016. EVOLUTION

MINING LIMITED, MELBOURNE.

Major Mining Related Events

Year Commenced Year Completed

2003 2012 to

Conquest acquired the Mount Carlton area from Xstrata in Oct 2003.

2012 2012 to

Evolution Mining acquired Mount Carlton; Development of Mount Carlton mine completed

by 2012

Comments

Mining Operations

Tenure Type/Number SHARE Company Name/Surname ML 10343 100.00% CONOUEST MINING PTY LIMITED

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

BOWEN BASIN Lizzie Creek Volcanics / EARLY PERMIAN to EARLY PERMIAN

A Summary of Major Mineral Resources, Mines and Projects, 2016

Deposit Model

GENERAL OREBODY MODEL
DETAILED OREBODY MODEL

EPITHERMAL VEINS/PIPE/STOCKWORK

EPITHERMAL PRECIOUS METAL

HIGH SULPHIDATION

EPITHERMAL

VEIN

Mineralisation Age

ORE PERMIAN

Comments

In February 2010, Conquest announced that the definitive feasibility study had identified lower than expected commercial returns for the project.

The project would still be profitable but is not sufficiently robust to develop before offtake arrangements are finalised A strategic review has commenced to consider alternative routes to production.

Part of the Mount Carlton Project. In October 2006, Conquest Mining announced that drilling had extended the strike length of the mineralised zone to 750m.

In January 2007, Conquest announced that drilling had located high-grade gold intersections that add significantly to the depth extent of the deposit, including 30m at 4.13g/t Au from 80m, 109m at 78.16g/t Au from 68m, and 44.7m at 4.8g/t Au from 98.3m.

In December 2006, Conquest announced that drilling results had continued to extend the zone of "significant mineralisation".

Intersections included 85m at 3.39g/t Au from 79m, indicating substantial depth potential.

Infill and extension drilling continued through the first half of 2007.

The deposit consists of 20 to 40m of relatively flat-lying dacite and andesite, with 5 to 60m of rhyodacite with gypsum veins and jarosite at the base. Dacitic volcanic breccias underlie the rhyodacite.

The definitive feasibilty study confirmed a potential discrete high-grade silver pit at Area 39.

The study indicated two distinct mining areas, each with its own very different metal characteristics. The Main Pit will encompass a high Au-Cu mineral composition, whereas Area 39 (Silver Pit) is much lower in Au and Cu but has a very high Ag grade.

Drilling in 2008 extended the resource south and west. Intersections included 30m at 1222g/t Ag (including 12m at 2615g/t Ag), 23m at 188g/t Ag, 46m at 121g/t Ag, 21m at 5.25g/t Au, 40g/t Ag and 0.87% Cu, 5m at 9.01g/t Au, and 14m at 6.96g/t Au.

In April 2009, Conquest announced that its pre-feasibility study had demonstrated the economics of Silver Hill. A definitive feasibility study has been commissioned prior to a final decision to commence production and is on track for completion by November Production is likely to commence by 2011.

Deep drilling (400 to 700m) to explore for a possible porphyry host and/or second occurrence of mineralisation in the rhyodacite host beneath Silver Hill commenced in May 2009.

Trial grade control drilling in August 2009 returned intersections including 24m at 13.1g/t Au (including 4m at 62.9g/t Au), 44m at 10.1g/t Au (including 28m at 14.2g/t Au) and 40m at 11.7g/t Au (including 8m at 47.3g/t Au).

The main silicified zone crops out at a prominent ridge and disappears under a scree-covered slope to the east and west of the known resource area. The deposit comprises two zones - Main Hill and the Western Lodes.

Evolution has advanced construction of mine plant at the end of 2012.

In Nov 2010 Conquest mining reported significant new high-grade results from the V2 East area including: HC10RCD963 11.38m @ 6.77g/t Au, 9.2g/t Ag and 0.65% Cu; HC10RCD971 25.0m @ 3.29g/t Au, 10g/t Ag and 0.21% Cu.

In Dec 2010 new reserve figures for V2 pit and A39 pit were released on ASX (BR9540); Conquest Mining completed the Optimisation Study and approved the Mount Carlton mine development.

(Nov 2010 continued): HC10RCD973 5.73m @ 18.7g/t Au, 46.5g/t Ag and 4.62% Cu (BR9539).

Web Page

www.evolutionmining.com.au

A Summary of Major Mineral Resources, Mines and Projects, 2016

43548 MOUNT COLIN

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 48.5 KM W OF CLONCURRY 1:100 000 sheet Number and Name: 6956 MARRABA

Grid Reference: Zone 54 400544 mE 7702356 mN Latitude -20.7759 Longitude 140.0445 Date Recorded: 7/March/2016

Other Names for Deposit / Mine

 Commodities
 Size
 Size Definition

 COPPER
 SMALL
 500 - 50 000 tonnes CU

 GOLD
 SMALL
 0.5 - 5 tonnes AU

Production Details

Period: 1-Jan-1963 to 31-Dec-1966 308 tonnes HARD ROCK ORE (OR REEF)
COPPER OTHER 24.4 tonnes 7.90 percent

Period: 1-Jul-2013 to 30-Jun-2015

COPPER METAL 6,376.0 tonnes
GOLD METAL 132.7 kilograms
SILVER 11.5 kilograms

Published Reserves/Resources

BR 10184 Published in 2012 MOUNT COLIN

INDICATED MINERAL RESOURCE 1,042,000 tonnes Ore @

3.04 % COPPER FOR 31,676 Tonnes COPPER 0.42 g/t GOLD FOR 437 Kilograms GOLD

Comments/Cut Off Factor: 1.25% Cu cutoff

BR 10184 Published in 2012 MOUNT COLIN

INFERRED MINERAL RESOURCE 880,000 tonnes Ore @

2.09 % COPPER FOR 18,392 Tonnes COPPER 0.41 g/t GOLD FOR 360 Kilograms GOLD

Comments/Cut Off Factor: 1.25% Cu cutoff

Resource figures listed above are JORC compliant.

Published Reference ID Year Author Title Source

BR 10184 2012 EXCO RESOURCES LTD MARKET RELEASE: ANNOUNCEMENT TO THE QUEENSLAND EXPLORATION AUSTRALIAN SECURITIES

UPDATE; 2012 FIELD EXCHANGE, 20 APRIL 2012.
PROGRAMME HAS EXCO RESOURCES LTD, PERTH.
COMMENCED

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations Comments

DECLINED SHAFTS/DRIVES Main shaft underlies at 70 degrees towards 010 degrees, open to

>15m depth x 2m wide x 2.5m long. A second underlie shaft is ~8m west of the main shaft, it is fenced off, has a steel ladder in the opening. Old wire mesh partially covers the opening.

UNDERGROUND MINING METHODS Short drives at 17m, 23m amd 34m levels

STOPING Stoping carried out between the upper two levels.

Tenure Type/Number SHARE Company Name/Surname
ML 2640 100.00% EXCO RESOURCES LIMITED

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

MARY KATHLEEN DOMAIN Corella Formation / PALAEOPROTEROZOIC to

PALAEOPROTEROZOIC

Deposit Model

GENERAL OREBODY MODEL HYDROTHERMAL VEINS/PIPE/STOCKWORK
DETAILED OREBODY MODEL SHEAR ZONE-HOSTED HYDROTHERMAL

Mineralisation Age

ORE PROTEROZOIC

A Summary of Major Mineral Resources, Mines and Projects, 2016

Comments

A small-scale mining operation of the oxide resources was being run by Tennant, with a royalty payment being made to Matrix Metals Ltd The lease is being transferred to Exco Resources NL under a tenement swap agreement. Exco plans further exploration.

The lode consists of a footwall calcsilicate, a clay seam, breccia and a hanging wall of silicified calcsilicate.

RC drilling results in early 2007 confirmed the presence of significant gold grades. Intersections included 11m at 3.45% Cu and 6.31g/t Au from 7m, 16m at 3.47% Cu and 0.45g/t Au from 74m, and 36m at 4.03% Cu and 0.62g/t Au from 151m.

In Sept 2010 Exco reported best drill intersection from resource drilling: EMCDD034 17m @ 4.6% Cu & 1.34g/t Au. Geological interpretation and resource estimation is underway (BR9543).

Mining of oxide ore by CopperChem Ltd was completed in early 2011. In 2012 Exco Resources was taken over by Washington H Soul Pattinson & Co Ltd.

Web Page

www.excoresources.com.au; www.copperchem.com.au/

A Summary of Major Mineral Resources, Mines and Projects, 2016

42563 MOUNT GARNET

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 1 KM SSW OF MOUNT GARNET, 100KM SW OF CAIRNS.

1:100 000 sheet Number and Name: 7962 RAVENSHOE

Grid Reference: Zone 55 299814 mE 8043669 mN Latitude -17.6849 Longitude 145.1126 Date Recorded: 11/December/2015

Other Names for Deposit / Mine

Mount Garnet Freehold

Commodities	Size	Size Definition
ZINC	SMALL	200 - 200 000 tonnes ZN
COPPER	SMALL	500 - 50 000 tonnes CU
SILVER	SMALL	5 - 500 tonnes AG
LEAD	VERY SMALL	<1000 tonnes PB

Production Details

Period: 1-Jan-1901 to 31-Dec-1903 100,000 tonnes HARD ROCK ORE (OR REEF)

COPPER METAL 4,415.0 tonnes SILVER 29,500.0 kilograms

 Period:
 1-Jan-2003
 to
 31-Dec-2003
 209,598 tonnes HARD ROCK ORE (OR REEF)

 ZINC
 METAL
 13,623.9 tonnes
 6.50 percent

 COPPER
 METAL
 8,383.9 tonnes
 0.40 percent

Period: 1-Jul-2014 to 30-Jun-2015

COPPER METAL 622.0 tonnes

Published Reserves/Resources

BR 10071 Published in 2012 MT GARNET UNDERGROUND

INDICATED MINERAL RESOURCE 537,000 tonnes Ore @

 5.20 % ZINC
 FOR
 27,924 Tonnes ZINC

 14.00 g/t SILVER
 FOR
 7,518 Kilograms SILVER

 0.40 % COPPER
 FOR
 2,176 Tonnes COPPER

BR 10071 Published in 2012

MT GARNET UNDERGROUND

INFERRED MINERAL RESOURCE 31,000 tonnes Ore @

6.60 % ZINC FOR 2,046 Tonnes ZINC
46.00 g/t SILVER FOR 1,426 Kilograms SILVER
0.30 % COPPER FOR 93 Tonnes COPPER

BR 10071 Published in 2012

MT GARNET

MEASURED MINERAL RESOURCE 100,000 tonnes Ore @

10.10 % ZINC FOR 10,100 Tonnes ZINC
22.00 g/t SILVER FOR 2,200 Kilograms SILVER
0.60 % COPPER FOR 600 Tonnes COPPER

previously labeled "Underground"

Resource figures listed above are JORC compliant.

Published Reference ID Year Author Title Source

BR 10071	2012 KAGARA MINING	OPPORTUNITY TO ACQUIRE KAGARA LIMITED'S NORTH QUEENSLAND ASSETS	REPORT TO THE AUSTRALIAN SECURITIES EXCHANGE. 14 SEPTEMBER 2012 KAGARA MINING, PERTH.

			MINING, PERTH.
Major Mining R	elated	l Events	
Year Commenc 1882	ed	Year Completed	Comments Mount Garnet deposit discovered.
1898	to	1902	Main period of mining. Mining and smelter commenced operation in 1898.
1915	to	1917	Attempt to reopen mine as a zinc producer but failed.
2002	to	2003	Construction of treatment plant commenced in June 2002. Plant commissioned in February 2003. Mount Garnet deposit open cut between February and September 2003.
2003			Mount Garnet treatment plant continued to process ores from Balcooma, Surveyor and Dry River South.

A Summary of Major Mineral Resources, Mines and Projects, 2016

Mining Operations Comments

OPEN CUT MINING Mining in 2003 extended the historic opencut workings. Stage 2

extension of pit to the north planned for 2006.

UNDERGROUND MINING METHODS

Underground mining planned from base of new open cut.

SHAFTS Removed by opencut mining.

ADITS Removed by opencut mining.

Tenure Type/Number		SHARE	Company Name/Surname
ML	4042	100.00%	SNOW PEAK MINING PTY LTD
ML	4043	100.00%	SNOW PEAK MINING PTY LTD
ML	4044	100.00%	SNOW PEAK MINING PTY LTD
ML	4130	100.00%	SNOW PEAK MINING PTY LTD
ML	20005	100.00%	SNOW PEAK MINING PTY LTD
ML	20016	100.00%	SNOW PEAK MINING PTY LTD
ML	20105	100.00%	SNOW PEAK MINING PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

HODGKINSON PROVINCE Chillagoe Formation / EARLY SILURIAN to EARLY DEVONIAN

Deposit Model

GENERAL OREBODY MODEL REPLACEMENT DEPOSIT
DETAILED OREBODY MODEL LEAD-ZINC SKARN

Mineralisation Age

ORE LATE CARBONIFEROUS Early garnet-pyroxene skarn, retrograde phase

brought mineralisation. Four main ore types - vein style (late overprint), disseminated (garnet or pyrrhotite skarn), pyrrhotite ore (brecciation associated), and magnetite associated ore.

Comments

Kagara Zinc Ltd completed expensive drilling and metalurgical studies and delineated a coherent zone of very high grade zinc sulphide mineralisation ~150m below the surface. Open cut mining was carried out in 2003.

Additional exploration was carried out in 2006. Drill intersections announced in June included 27.2m at 24.0% Zn, 0.4% Cu and 14g/t Ag from 147.25m. A tailings dam lift resulted in a cut back of the current open cut.

This will expose \sim 70 000t at 8.5% Zn, 0.5% Cu and 20g/t Ag and will be the last orte mined from the open cut. All future production is planned to come from underground development.

The processing plant at Mount Garnet is a central plant used to treat ore from Mount Garnet, Balcooma, Surveyor and Dry River South. It was upgraded in September 2004 and May 2005. A 30 000 tonnes per annum copper circuit was commissioned in March 2006.

In the June 2007 quarter, 425 000t of waste was removed from the open cut and 2000t of ore was stockpiled. Material from the Mount Garnet open cut will be processed in January to March 2008, from a stockpile of ~200,000t @ 6% Zn and .4% Cu.

The ore from the Mount Garnet open cut was being blended with Balcooma and Dry River South ores. From late 2008, it was blended with high-grade Mungana ore.

The Mt Garnet underground mine commenced stoping in Feb 2009 and to date has produced 71000 tonnes grading 9.5% zinc and 0.5% copper (BR 9353).

The ore zone is directly related with a garnetised limestone-argillite bed. Drilling has shown primary marmatitic ore associated with calcite-garnet hornfels containing magnetite, sphalerite, pyrrhotite and minor chalcopyrite and galena.

Web Page

www.kagara.com.au

		A	_	or Mineral Resources, Mines and Projec	ts, 2016
OPERATING MINE	E	NET PLA			
Descriptive Location: 1:100 000 sheet Number			UNT GARNET		
Grid Reference: Zon				Latitude -17.6832 Longitude 145.1121	Date Recorded: 26/May/2015
Other Names for De) i iii v	Editido 17.0032 Edifficado 173.1121	Buto Recorded. 20/May/2015
Commodities	, , , , , , , , , , , , , , , , , , , 				Size Definition
ZINC				Size SMALL	200 - 200 000 tonnes ZN
LEAD				SMALL	1000 - 100 000 tonnes PB
COPPER				SMALL	500 - 50 000 tonnes CU
SILVER				SMALL	5 - 500 tonnes AG
GOLD				VERY SMALL	<0.5 tonnes AU
TIN				VERY SMALL	<100 tonnes SN
Production Details					
Period: 1-Jul-	2005 to	30-Jun-20	10	1 254 427 topped HARD BOCK O	ADE (OD DEEE)
COPPER	2003 10	30-Juii-20	METAL	1,354,427 tonnes HARD ROCK O 42,185.0 tonnes	RE (OR REEF)
SILVER			METAL		
GOLD			FINE	13,600.0 kilograms 192.8 kilograms	
Period: 2-Jul-2	2005 to	30-Jun-20		2,221,901 tonnes HARD ROCK O	DE (OD DEEE)
ZINC	2003 10	30-3uii-20	METAL	185,125.0 tonnes	OKE (OK KEEF)
LEAD			METAL	33,525.0 tonnes	
COPPER			METAL	19,425.0 tonnes	
SILVER			WILITE	67,120.0 kilograms	
GOLD			FINE	514.4 kilograms	
Period: 1-Jul-	2010 to	30-Jun-20		514.4 Kilograms	
COPPER			METAL	6,740.0 tonnes	
ZINC			METAL	40,125.0 tonnes	
LEAD			METAL	1,040.0 tonnes	
Period: 2-Jul-	2010 to	30-Jun-20		1,01010 (011110)	
COPPER			METAL	15,790.0 tonnes	
Published Reserves/F			. 10 . 0		
Resource figures li	isted above ha	ave been extrac	ted from Company A	annual reports or published literature.	
Published Reference	ID Ye	ear Author		Title	Source
Major Mining Relat	ted Events				
Year Commenced	Year Co		Comments		
2003 t	0	2003	Treated Mount G	arnet ore	
2005 t	0	2008	Treated ore from	Balcooma, Surveyor and Dry River South	
2008 t	0	2009	_	ominantly from Balcoma; blending of Mount of una ore (commenced September 2008)	Garnet underground ore with

	2005	to	2008	Treated ore from Balcooma, Surveyor and Dry River South		
	2008	to	2009	Treated ore predominantly from Balcoma; blending of Mount Garnet underground ore with high grade Munguna ore (commenced September 2008)		
Mining	g Operatio	ons				
Tenure	Type/Nu	mber	SHARE	Company Name/Surname		
MI	L 404	42	100.00%	SNOW PEAK MINING PTY LTD		
M	L 404	43	100.00%	SNOW PEAK MINING PTY LTD		
MI	L 404	44	100.00%	SNOW PEAK MINING PTY LTD		
MI	L 413	30	100.00%	SNOW PEAK MINING PTY LTD		

SNOW PEAK MINING PTY LTD

ML	20105	100.00%	SNOW PEAK MINING PTY LTD
	k/Cover Sequer ural Unit	nces	Formation Name/Age

100.00%

Deposit Model

ML

20016

Mineralisation Age

A Summary of Major Mineral Resources, Mines and Projects, 2016

Comments

Remark for "production details": 2 sets of production figures reported: Production including Pb and Zn values were processed in the polymetallic plant, the other set of values originates from the copper plant circuit.

The copper and polymetallic processing plants at Mount Garnet are central plants used by Kagara Ltd to process ore from Mount Garnet, Balcooma, Surveyor and Dry River South.

The polymetallic plant was upgraded in September 2004 and May 2005. A 30,000tpa copper circuit was commissioned in March 2006. Production data from 2005 to 2010 is recorded at this site since the ore amounts were sourced from multiple locations and could not be seperated easily. Individual records for production at Balcooma, Surveyor, Mount Garnet, Baal Gammon etc have been (cont.) quoted where identified, but were not added to the database to avoid duplication.

Web Page

www.kagara.com.au

A Summary of Major Mineral Resources, Mines and Projects, 2016

486900 MOUNT HAY

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 8.5 KM NE OF WESTWOOD 1:100 000 sheet Number and Name: 8950 MOUNT MORGAN

Grid Reference: Zone 56 215558 mE 7392074 mN Latitude -23.5567 Longitude 150.2137 Date Recorded: 8/February/2017

Other Names for Deposit / Mine

CommoditiesSizeSize DefinitionTHUNDER EGGLARGE>100 tonnes THEG

Production Details

Period: 1-Jan-1965 to 31-Dec-1978

THUNDER EGG 147,904.0 kilograms

RHYOLITE 53.8 tonnes

Period: 1-Jul-1996 to 30-Jun-2016

AGATE 1,564,073.0 australian dollars

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

1964 to 1968 DIGGING OF GEMSTONES BY HAND.

1968 HEAVY MACHINERY PUT IN OPERATION AND QUARRYING BEGAN IN 1971 IN

ML491.

1971

Mining Operations Comments

OPEN CUT MINING

SURFACE MINING METHODS

PITS At least 6 areas of pitting

Tenure Type/NumberSHARECompany Name/SurnameML5817100.00%ARADON PTY LTDML80090100.00%ARADON PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

UNDIFFERENTIATED MESOZOIC Mount Salmon Volcanics/t / LATE CRETACEOUS to LATE

VOLCANICS CRETACEOUS

Deposit Model

GENERAL OREBODY MODEL DIATREME OR PYROCLASTIC-RELATED DEPOSITS

DETAILED OREBODY MODEL ALLUVIAL/ELUVIAL GEMSTONES

GENERAL OREBODY MODEL RESIDUAL DEPOSIT

Mineralisation Age

ORE LATE CRETACEOUS

Comments

Thunder egg deposits are confined to a single spherulitic rhyolite flow within a complex of acid volcanic plugs, flows and pyroclastics.

The Mount Hay Gemstone Tourist Park diggings are within ML 926.

Web Page

www.aradon com.au

A Summary of Major Mineral Resources, Mines and Projects, 2016

494086 MOUNT ISA COPPER MINE

OPERATING MINE

Descriptive Location: 1.3 KM WEST OF MOUNT ISA. 1:100 000 sheet Number and Name: 6756 MOUNT ISA

Grid Reference: Zone 54 341520 mE 7707565 mN Latitude -20.7247 Longitude 139.4780 Date Recorded: 30/January/2017

Other Names for Deposit / Mine

Mount Isa Enterprise Black Rock

Mount Isa Deep Copper Mine

X41 Mine

Commodities	Size	Size Definition
COPPER	GIANT	>2 000 000 tonnes CU
COBALT	MEDIUM	1 000 - 20 000 tonnes CO
SILVER	SMALL	5 - 500 tonnes AG
ANTIMONY	VERY SMALL	<50 tonnes SB
GALLIUM	VERY SMALL	< 0.1 tonnes GA

Production Details

Period:

Period:	1-Jan-1942	to	31-Dec-1996
---------	------------	----	-------------

1-Jul-1996

COPPER OTHER 4,824,742.0 tonnes

30-Jun-2001

14,030,698 tonnes HARD ROCK ORE (OR REEF)

COPPER METAL 854,664.0 tonnes
SILVER 90,141.0 kilograms
COBALT 3,613.0 tonnes
ANTIMONY 59.0 tonnes

Period: 1-Jul-2001 to 30-Jun-2014 63,602,394 tonnes HARD ROCK ORE (OR REEF)

 COPPER
 METAL
 2,110,083.0 tonnes

 ANTIMONY
 42.0 tonnes

 COBALT
 2,700.0 tonnes

 SILVER
 185,645.4 kilograms

 Period:
 1-Jul-2014

 to
 30-Jun-2016

COPPER METAL 239,966.0 tonnes SILVER 22,627.1 kilograms

A Summary of Major Mineral Resources, Mines and Projects, 2016

Published Reserves/Resources

BR 10427 Published in 2015

ENTERPRISE MINE 3000 & 3500

INDICATED MINERAL RESOURCE 2,600,000 tonnes Ore @

2.62 % COPPER FOR 68,120 Tonnes COPPER

As at 31 Dec 2014. Resource figure from Glencore Plc website.

BR 10427 Published in 2015

ENTERPRISE MINE 3000 & 3500

INFERRED MINERAL RESOURCE 400,000 tonnes Ore @

2.30 % COPPER FOR 9,200 Tonnes COPPER

As at 31 Dec 2014. Resource figure from Glencore Plc website.

BR 10427 Published in 2015

ENTERPRISE MINE 3000 & 3500

MEASURED MINERAL RESOURCE 28,000,000 tonnes Ore @

2.92 % COPPER FOR 817,600 Tonnes COPPER

Includes proved reserves of 14.5Mt at 2.9% Cu and probable reserves of 0.9Mt at 2.57% Cu. As at 31 Dec

2014. Resource figure from Glencore Plc website.

BR 10427 Published in 2015

OPEN PIT

INDICATED MINERAL RESOURCE 82,000,000 tonnes Ore @

1.32 % COPPER FOR 1,082,400 Tonnes COPPER

Comments/Cut Off Factor: 0.5% Cu.

As at 31 Dec 2014. Resource figure from Glencore Plc website.

BR 10427 Published in 2015

OPEN PIT

INFERRED MINERAL RESOURCE 138,000,000 tonnes Ore @

0.89 % COPPER FOR 1,228,200 Tonnes COPPER

Comments/Cut Off Factor: 0.5% Cu.

As at 31 Dec 2014. Resource figure from Glencore Plc website.

BR 10427 Published in 2015

OPEN PIT

MEASURED MINERAL RESOURCE 48,000,000 tonnes Ore @

1.46 % COPPER FOR 700,800 Tonnes COPPER

Comments/Cut Off Factor: 0.5% Cu.

As at 31 Dec 2014. Resource figure from Glencore Plc website.

BR 10427 Published in 2015

X41 MINE 1100 & 1900 OREBODIES

INDICATED MINERAL RESOURCE 15,200,000 tonnes Ore @.

1.80 % COPPER FOR 273,600 Tonnes COPPER

Includes probable reserves of 12.6Mt at 1.81% Cu. As at 31 Dec 2014. Resource figure from Glencore Plc

website.

BR 10427 Published in 2015

X41 MINE 1100 & 1900 OREBODIES

INFERRED MINERAL RESOURCE 7,100,000 tonnes Ore @

1.60 % COPPER **FOR** 113,600 Tonnes COPPER

As at 31 Dec 2014. Resource figure from Glencore Plc website.

BR 10427 Published in 2015

X41 MINE 1100 & 1900 OREBODIES

MEASURED MINERAL RESOURCE 30,900,000 tonnes Ore @

1.88 % COPPER **FOR** 580,920 Tonnes COPPER

Includes proved reserves of 6.1Mt at 1.91% Cu. As at 31 Dec 2014. Resource figure from Glencore website.

Resource figures listed above are JORC compliant.

Published Reference ID BR 10427 Year Author 2015 GLENCORE Title

GLENCORE RESOURCES &

RESERVES AS AT 31 DECEMBER 2014. Source

HTTP://WWW.GLENCORE.COM/A SSETS/INVESTORS/DOC/REPORT S_AND_RESULTS/2014/GLEN-201 4-RESOURCES-RESERVES-REPO

RT.PDF

A Summary of Major Mineral Resources, Mines and Projects, 2016

Major Mining R	elated	Events	
Year Commenc 1927	ed to	Year Completed 1927	Comments Surface drilling intersected 15m at 17% Cu in the Black Rock area.
1930	to	1930	Primary Cu first noted.
1941	to	1962	Black Rock secondary orebody mined intermittently for flux from underground.
1950	to	1950	500 orebody discovered.
1954	to	1954	1100/1900 orebodies discovered.
1957	to	1967	Black Rock mined by open cut. Produced 2.26 Mt at 3.9% Cu.
1962	to	1962	3000 orebody intersected by drilling.
1965	to	1965	3500 orebody intersected by drilling.
1987	to	1993	Development of 3000 orebody commenced in 1987 and mining started in 1993.
1997	to	1999	Mining of 3500 orebody commenced in 1997.
2000			The Enterprise (Mount Isa Deep Copper) Mine commenced production after an investment of A\$370M. It was Australia's deepest mine following the construction of a new internal shaft to a depth of 1800m.
2004			Development of the northern 3500 underground commenced. Expected \$36m investment. Ore production scheduled for 2006. Expected to extend copper orebody for 11 years.

Mining Operations

SHAFTS

UNDERGROUND MINING METHODS

OPEN CUT MINING

STOPING

Tenure Type/Number		SHARE	Company Name/Surname	
ML	8058	100.00%	MOUNT ISA MINES LIMITED	
Host Rock	Cover Sequences		Formation Name/Age	

Comments

LEICHHARDT RIVER DOMAIN Urquhart Shale / PALAEOPROTEROZOIC to PALAEOPROTEROZOIC

Deposit Model

GENERAL OREBODY MODEL BRECCIA-HOSTED

DETAILED OREBODY MODEL BRECCIATED SEDIMENT-HOSTED COPPER

Mineralisation Age

ORE MESOPROTEROZOIC Mineralisation associated with peak to retrograde

metamorphism of the Isan Orogeny (1550-1500Ma). Wilde & others (2007) suggest mineralisation was after initiation of the South Nicholson Basin.

Comments

The Mount Isa Cu orebodies are among the world's largest sediment-hosted Cu deposits. They occur exclusively in brecciated silica-dolomite host rocks adjacent to the Basement Contact Fault and give way to multiple Pb-Zn-Ag lodes away from the fault. Mining is currently carried out on two orebodies - Enterprise and X41.

Wilde & others (2007 - BR 8258) have proposed a model whereby the copper ore formed by the reduction of oxidised basinal brines by the carbonaceous Urquhart Shale.

Wilde & others (2007) suggested that various radiometric ages are consistent with formation of the copper orebodies after initiation of the South Nicholson Basin.

Web Page

www.glencore.com

A Summary of Major Mineral Resources, Mines and Projects, 2016

45327 MOUNT ISA SILVER-LEAD MINE

OPERATING MINE

Descriptive Location: 1.3 KM W MOUNT ISA. 1:100 000 sheet Number and Name: 6756 MOUNT ISA

Grid Reference: Zone 54 341520 mE 7707565 mN Latitude -20.7247 Longitude 139.4780 Date Recorded: 31/January/2017

Other	Names	for De	posit /	Mine
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Black Star Racecourse Isa Mine Mount Isa

Commodities	Size	Size Definition
SILVER	GIANT	>10 000 tonnes AG
ZINC	GIANT	>5 000 000 tonnes ZN
LEAD	GIANT	>5 000 000 tonnes PB
COPPER	SMALL	500 - 50 000 tonnes CU
CADMIUM	SMALL	50 - 5 000 tonnes CD
ANTIMONY	SMALL	50 - 5 000 tonnes SB
COBALT	SMALL	10 - 1 000 tonnes CO
SULPHUR		

Production Details

SILVER

Period:	1-Jan-1931	to	31-Dec-1996		
SILVEF	t				13,941,000.0 kilograms
ZINC				METAL	5,007,664.0 tonnes
LEAD				METAL	5,738,407.0 tonnes
Period:	1-Jul-1996	to	30-Jun-2001		8,799,387 tonnes SULPHIDE ORE

SILVER 1,883,793.0 kilograms METAL ZINC 895,282.0 tonnes LEAD **METAL** 772,195.0 tonnes COPPER **METAL** 5,191.0 tonnes **CADMIUM** 3,000.0 tonnes ANTIMONY 1,819.0 tonnes **COBALT** 212.0 tonnes **SULPHUR** 486,316.0 tonnes

Period: 1-Jul-1999 to 1-Jul-2000 2,986,462 tonnes HARD ROCK ORE (OR REEF)

4,230,843.2 kilograms

LIMESTONE UNKNOWN 15,393.0 tonnes

Period: 1-Jul-2001 to 30-Jun-2016 59,254,499 tonnes SULPHIDE ORE

METAL LEAD 2,040,459.0 tonnes **METAL** ZINC 4,197,171.0 tonnes **COPPER METAL** 5,179.3 tonnes **COBALT** 116.0 tonnes **CADMIUM** 2,087.0 tonnes ANTIMONY 747.0 tonnes SULPHUR 353,278.0 tonnes

Period: 1-Jul-2008 to 30-Jun-2009 6,733,482 tonnes HARD ROCK ORE (OR REEF)

LIMESTONE UNKNOWN 120,828.0 tonnes

A Summary of Major Mineral Resources, Mines and Projects, 2016

Published Reserves/Resources

BR 10427 Published in 2015

BLACK STAR OPEN CUT

INDICATED MINERAL RESOURCE 2,200,000 tonnes Ore @

45.00 g/t SILVER **FOR** 99,000 Kilograms SILVER

3.40 % ZINC FOR 74,800 Tonnes ZINC

2.60 % LEAD FOR 57,200 Tonnes LEAD

Comments/Cut Off Factor: A\$23/t net smelter return.

Indicated resources include probable reserves of 0.2Mt at 3.3% Zn, 2.4% Pb and 26g/t Ag and probable reserves of 13Mt at 4.4% Zn, 3.5% Pb and 62g/t Ag. As at 31 Dec 2014. Resource figures from Glencore Plc

website

BR 10427 Published in 2015

BLACK STAR OPEN CUT

INFERRED MINERAL RESOURCE 1,500,000 tonnes Ore @

6.00 % ZINC FOR 90,000 Tonnes ZINC 60.00 g/t SILVER FOR 78,000 Kilograms SILVER

3.00 % LEAD FOR 39,000 Tonnes LEAD

Comments/Cut Off Factor: A\$23/t net smelter return.

As at 31 Dec 2014. Resource figures from Glencore Plc website.

BR 10427 Published in 2015

BLACK STAR OPEN CUT

MEASURED MINERAL RESOURCE 12,600,000 tonnes Ore @

66.00 g/t SILVER FOR 1,207,800 Kilograms SILVER
5.30 % ZINC FOR 969,900 Tonnes ZINC

4.04 % LEAD **FOR** 509,040 Tonnes LEAD

Comments/Cut Off Factor: A\$23/t net smelter return.

Measured and indicated resources include proved reserves of 4.77Mt at 5.31% Zn, 2.81% Pb and 38g/t Ag and probable reserves of 13Mt at 4.4% Zn, 3.5% Pb and 62g/t Ag. As at 31 Dec 2014. Resource figures from

Glencore Plc website.

BR 10427 Published in 2015

ISA OPEN PIT

INDICATED MINERAL RESOURCE 200,000,000 tonnes Ore @

56.00 g/t SILVER **FOR** 11,200,000 Kilograms SILVER

3.40 % ZINC **FOR** 6,800,000 Tonnes ZINC

2.70 % LEAD **FOR** 5,400,000 Tonnes LEAD

Comments/Cut Off Factor: A\$23/t net smelter return.

As at 31 Dec 2014. Resource figures from Glencore Plc website.

BR 10427 Published in 2015

ISA OPEN PIT

INFERRED MINERAL RESOURCE 130,000,000 tonnes Ore @

2.00 % LEAD **FOR** 3,400,000 Tonnes LEAD

Comments/Cut Off Factor: A\$23/t net smelter return.

As at 31 Dec 2014. Resource figures from Glencore Plc website.

BR 10427 Published in 2015

ISA OPEN PIT

MEASURED MINERAL RESOURCE 46,100,000 tonnes Ore @

80.70 g/t SILVER **FOR** 3,720,270 Kilograms SILVER 4.09 % ZINC **FOR** 1,885,490 Tonnes ZINC

3.94 % LEAD **FOR** 1,816,340 Tonnes LEAD

Comments/Cut Off Factor: A\$23/t net smelter return.

As at 31 Dec 2014. Resource figures from Glencore Plc website.

Resource figures listed above are JORC compliant.

Published Reference ID

BR 10427

Year Author 2015 GLENCORE Title

GLENCORE RESOURCES &

RESERVES AS AT 31 DECEMBER 2014. Source

HTTP://WWW.GLENCORE.COM/A SSETS/INVESTORS/DOC/REPORT S_AND_RESULTS/2014/GLEN-201 4-RESOURCES-RESERVES-REPO

RT.PDF

A Summary of Major Mineral Resources, Mines and Projects, 2016

Major	Mining	Related	Events

Year Comment 1923	ced to	Year Completed 1923	Comments John Campbell Miles discovered Ag-Pb mineralisation in outcrop. More than 100 lease applications were registered by the end of 1923.
1924	to	1924	Most of the leases were amalgamated under the control of Mount Isa Mines Ltd.
1931	to	2005	Production by Mount Isa Mines Ltd commenced in May 1931. Underground zinc-lead mining operations at Mount Isa ceased at the end of 2005.
2004			Black Star open cut waste material removal commenced in October 2004. Mining began in 2005 and will run for at least five years. The opencut will eventually be 350m deep, almost 1km long and 900m wide.

Mining Operations Comments

UNDERGROUND MINING METHODS

SHAFTS

STOPING

OPEN CUT MINING Opencut workings (called Black Star) restarted in February 2005.

SHARE Tenure Type/Number Company Name/Surname ML 8058 100.00% MOUNT ISA MINES LIMITED **Host Rock/Cover Sequences** Structural Unit Formation Name/Age LEICHHARDT RIVER DOMAIN Urquhart Shale / PALAEOPROTEROZOIC to PALAEOPROTEROZOIC **Deposit Model** GENERAL OREBODY MODEL SEDIMENT-HOSTED DEPOSIT DETAILED OREBODY MODEL SEDIMENT-HOSTED PB-ZN (SEDEX ZN-PB.

Mineralisation Age

ORE PALAEOPROTEROZOIC Mineralisation dated at 1652 +/- 7Ma.

SHALE-HOSTED ZN-PB)

Comments

Tabular, bedding-parallel Ag-Pb-Zn orebodies occur in close proximity to but geologically distinct from the breccia-hosted massive to disseminated copper mineralisation.

The mineralisation occurs within fine to coarse (1mm to 1m) bedding-parallel sulphide- rich bands within shales and siltstones of the Urquhart Shale.

The sulphide bands constitute an orebody where they are grouped together in sufficient concentrations to meet criteria for an economic orebody.

Post-1987 production includes that from the George Fisher/Hilton Mines to the north.

In June 2004, Xstrata announced that it will go ahead with development of the Black Star open cut, with pre-strip mining expected to commence in the second half of the year. Planned pit depth is 200m.

Production from the Black Star orebody commenced in early 2005 at a rate of 1.5Mtpa for 5 years, based on a resource of 24.2Mt at 5.1% Zn, 2.7% Pb and 54g/t Ag, including a reserve of 8.4Mt at 5.2% Zn, 3.5% Pb and 60g/t Ag.

Mining ceased in the Mount Isa underground lead-zinc mine at the end of 2005. In late 2006, the first stage of an update and expansion of the Mount Isa zinc concentrator was completed, as well as a new zinc filter plant.

The production data (2001-2016) includes George Fisher North and George Fisher South. Metal produced is contained in 2 concentrates - 2688393 t lead concentrate (this figure only recorded to 2012) and 6439839 t zinc concentrate.

The Black Star Open Cut Resource is additional to the Mount Isa Open Pit Resource and was updated in July 2014.

A total of 3.3Mt at 3.9% Zn, 1.9% Pb and 47g/t Ag were depleted from the Ore Reserves in the 12 months to 31December 2014 due to ongoing mining operations from the Black Star Open Cut. The current LOM plan predicts the Ore Reserves to expire in Q3, 2016.

The Black Star Open Cut Resource has been removed from the Isa Open Pit and is reported separately. The Isa Open Pit Resource is exclusive of the Black Star Open Cut. The Isa Open Pit is located on Mining Lease ML8058 which expires on 30 November 2036.

Web Page

www.glencore.com

A Summary of Major Mineral Resources, Mines and Projects, 2016

43470 **MOUNT KELLY**

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 90KM NORTH OF MOUNT ISA. 1:100 000 sheet Number and Name: 6758 MAMMOTH MINES

Grid Reference: Zone 54 305784 mE 7798925 mN Latitude -19.8962 Longitude 139.1448 Date Recorded: 8/December/2015

Other Names for Deposit / Mine

Mount Kelly Workings

Commodities Size Definition Size **COPPER SMALL** 500 - 50 000 tonnes CU **GOLD** VERY SMALL <0.5 tonnes AU

Production Details

Period:

Period: 1-Jan-1930 31-Dec-1958 2,520 tonnes OXIDE ORE

COPPER OTHER 164.7 tonnes 6.65 percent

Period: 1-Jul-1967 30-Jun-1968 107 tonnes OXIDE ORE to

OTHER **COPPER** 4.6 tonnes 4.30 percent

30-Jun-2015 COPPER PLATE 1,249.0 tonnes

Published Reserves/Resources

1-Jul-2011

Resource figures listed above have been extracted from Company Annual reports or published literature

Title Source Published Reference ID Year Author

Major Mining Related Events

Year Commenced Year Completed Comments

1930 1939 Outcropping copper carbonates were discovered. to

2010 CST mining commenced mining and exploration operations in September 2010.

Mining Operations Comments

ADITS

OPEN CUT MINING

UNDERGROUND MINING METHODS

DECLINED SHAFTS/DRIVES

SHAFTS

STOPING

Tenure Type/Number SHARE Company Name/Surname ML 5435 100.00% CST MINERALS LADY ANNIE PTY LIMITED

CST MINERALS LADY ANNIE PTY LIMITED ML 5478 100.00%

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

MOUNT OXIDE DOMAIN Paradise Creek Formation / PALAEOPROTEROZOIC to

PALAEOPROTEROZOIC

Deposit Model

GENERAL OREBODY MODEL **BRECCIA-HOSTED**

DETAILED OREBODY MODEL BRECCIATED SEDIMENT-HOSTED COPPER

Mineralisation Age

MESOPROTEROZOIC ORE

A Summary of Major Mineral Resources, Mines and Projects, 2016

Comments

Oxide copper mineralisation is focused within the axial zone of a shallow plunging anticline where it is intersected by the NNW-trending Mount Kelly Fault and WNW-trending Spinifex thrust.

Remobilisation of minerals is evident away from the controlling structures along bedding planes and axial cleavage planes. Lower grade ore occurs as bedding-controlled disseminations but the higher grade ore occurs within breccias.

The oxide copper resource includes probable reserves of 85,000t at 0.7% Cu.

CopperCo went into voluntary administration in November 2008. Cape Lambert Iron Ore Ltd purchased CopperCo's assets in June 2009. An Initial Public Offering to form a new company to manage the Lady Annie project is planned.

CST Mining resumed mining at Lady Annie in September 2010, with first copper cathode production in November 2010. (CST is registered in the Hong Kong Exchanges: Code 985). New resources for Flying Horse and Mount Kelly reported together.

Significant drilling results (Cu) announced by CST mining Ltd in Nov 2010 include: MTKC001 with 30m @ 1.26% Cu; MTKC169 with

40m @ 1.01% Cu; MTKC264 with 33m @ 1.33% Cu; MTKC270 with 29m @ 1.24% Cu; and MTKC299 with 18m @ 1.37% Cu (BR9536).
Significant drilling results (Au) announced by CST mining Ltd in Nov 2010 include: MTKC002 with 8m @ 1.63g/t Au; MTKC006 with

7m @ 1.19g/t Au; MTKC258 with 6m @ 1.44g/t Au; MTKC261 with 8m @ 5.58g/t Au; and MTKC293 with 23m @ 2.31g/t Au (BR9536).

Nov 2010 CST carried out diamond drilling to collect samples (560m) for metallurgical testwork to strengthen understanding of the amenability of the oxide mineralisation to be treated at the Mt Kelly SX-EW process plant. Results are expected in Q2 2011.

Web Page

http://www.cstmining.com

A Summary of Major Mineral Resources, Mines and Projects, 2016

40502 MOUNT MOSS

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 4.2 KM N OF EWAN, 100KM WEST OF TOWNSVILLE.

1:100 000 sheet Number and Name: 8059 EWAN

Grid Reference: Zone 55 378715 mE 7889270 mN Latitude -19.0858 Longitude 145.8471 Date Recorded: 3/June/2016

Other Names for Deposit / Mine

Iron Mountain Shaft

Titan Shaft Willets Pit

Commodities Size Size Definition

MAGNETITE LARGE >1 000 000 tonnes MT

 LIMESTONE
 SMALL
 100 000 - 2 000 000 tonnes LST

 COPPER
 MEDIUM
 50 000 - 250 000 tonnes CU

 ZINC
 SMALL
 200 - 200 000 tonnes ZN

SILVER VERY SMALL <5 tonnes AG
LEAD VERY SMALL <1000 tonnes PB

SCANDIUM

Production Details

Period: 1-Jul-2008 to 30-Jun-2015

MAGNETITE 1,130,663.3 tonnes LIMESTONE CRUSHED ROCK 7,299.2 tonnes

Period: 1-Jul-2011 to 30-Jun-2014

MAGNETITE 55,167.0 tonnes

Published Reserves/Resources

BR 9656 Published in 2011 MOUNT MOSS

INFERRED MINERAL RESOURCE 20.000.000 tonnes Ore @

41.00 % IRON FOR 8,200,000 Tonnes IRON
0.35 % COPPER FOR 70,000 Tonnes COPPER
0.35 % ZINC FOR 70,000 Tonnes ZINC

Title

Resource figures listed above are JORC compliant.

Published Reference ID Year Author

BR 9656 2011 GEOLOGICAL SURVEY QUEENSLAND¿S GEOLOGICAL SURVEY OF

OF QUEENSLAND METALLIFEROUS AND QUEENSLAND, DEPARTMENT OF

INDUSTRIAL MINERALS 2010. EMPLOYMENT, ECONOMIC DEVELOPMENT AND INNOVATION, BRISBANE.

Source

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations Comments

UNDERGROUND MINING METHODS

PITS

SHAFTS

ADITS

OPEN CUT MINING

Tenure Type/Number SHARE Company Name/Surname

ML 10171 100.00% MT MOSS MINING PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

CAMEL CREEK SUBPROVINCE Perry Creek Formation / LATE ORDOVICIAN to SILURIAN

Deposit Model

GENERAL OREBODY MODEL SKARN

DETAILED OREBODY MODEL BASE METAL SKARN

Mineralisation Age

ORE

A Summary of Major Mineral Resources, Mines and Projects, 2016

Comments

The Mount Moss area was explored by Jervois Mining NL for a zinc oxide resource. Drilling in 1990 returned a best intersection of 12m @ 19.1% Zn & 0.52% Cu from 78-90m depth. The weathered zone returned 78m @ 20.7g/t Sc, 0.24% Cu and 2.03% Zn from 36m.

The orebody has a zinc oxide and magnetite cap overlying a possible 1Mt sulphide resource.

Fourteen RAB holes were drilled into Willetts Knob to evaluate magnetite potential. It was concluded that the grade of iron intersected was not high enough for direct shipping without upgrading, probably by magnetic seperation.

Curtain Bros (Qld) Pty Ltd has proposed an open cut mine at Mount Moss to export ~1Mt per annum of magnetite for processing at a steel mill in China. Lump magnetite could also be produced for coal washing.

The magnetite resource has been unofficially reported as 3.5Mt of magnetite ore (Courier Mail, March 25, 2007).

Web Page

www.mtmoss.com

41044 **MOUNT RAWDON**

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 16.5KM SE OF MOUNT PERRY 1:100 000 sheet Number and Name: 9247 MOUNT PERRY

Grid Reference: Zone 56 375555 mE 7204425 mN Latitude -25.2713 Longitude 151.7641 Date Recorded: 31/January/2017

Other Names for Deposit / Mine

Swindon

Dawn

Sunrise

David

Locknager

Falcon

O.K.

Rainbow

Superman

The Summit Day Dawn

Delia

Blind Man

Rio

Tail End

John'S Chance

Whitburn

St Johns Gully

Surveyor Gully

Fox Junior

Nuggety Gully

Commodities	Size	Size Definition	
GOLD	LARGE	50 - 150 tonnes AU	
SILVER	SMALL	5 - 500 tonnes AG	
COPPER	VERY SMALL	<500 tonnes CU	
ZINC	VERY SMALL	<200 tonnes ZN	
LEAD	VERY SMALL	<1000 tonnes PB	
BISMUTH	VERY SMALL	<50 tonnes BI	

Production Details

Period:	1-Jan-1949	to	31-Dec-1953		763	tonnes HARD ROCK ORE	(OR REEF)
GOLD				BULLION	6.1 kilogram	rs 7.94	4 grams per tonne

31-Dec-1950 Period: 2-Jan-1949

GOLD BULLION 2.0 kilograms

18,605,546 tonnes HARD ROCK ORE (OR REEF) Period: 1-Jul-2000 30-Jun-2007

FINE **GOLD** 17,037.1 kilograms **SILVER** 36,523.8 kilograms

1-Jul-2007 30-Jun-2016 Period:

GOLD FINE 27,728.2 kilograms SILVER 37,892.6 kilograms

Published Reserves/Resources

BR 10462 Published in 2016 MOUNT RAWDON

INDICATED MINERAL RESOURCE 50,580,000 tonnes Ore @

0.70 g/t GOLD FOR 35,406 Kilograms GOLD

Comments/Cut Off Factor: 0.20 g/t Au cut-off

Includes probable reserves of 33.92 Mt at 0.78g/t Au at 0.3g/t Au cut-off.

BR 10462 Published in 2016

MOUNT RAWDON

INFERRED MINERAL RESOURCE 5,000,000 tonnes Ore @

0.57 g/t GOLD **FOR** 2,850 Kilograms GOLD

Comments/Cut Off Factor: 0.20g/t Au cut-off

BR 10462 Published in 2016 MOUNT RAWDON

MEASURED MINERAL RESOURCE 510,000 tonnes Ore @

0.53 g/t GOLD FOR 270 Kilograms GOLD

Comments/Cut Off Factor: 0.20g/t Au cut-off

Includes proved reserves of 0.51Mt at 0.53g/t Au at 0.3g/t Au cut-off.

Resource figures listed above are JORC compliant

			Quee	nsiand Milnerals	
		1	A Summary of Major	Mineral Resources, Mines and Proje	ects, 2016
Published Refere BR 10462	nce ID	Year Autho 2016 EVOI LIMI	LUTION MINING	Title ASX ANNOUNCEMENT: ANNUAL MINERAL RESOURCES AND ORE RESERVES STATEMENT	Source REPORT TO THE AUSTRALIAN SECURITIES EXCHANGE. 21 APRIL 2016. EVOLUTION MINING LIMITED, MELPOLIPNE
N N				RESERVES STATEMENT	MINING LIMITED, MELBOURNE.
Major Mining R Year Commend 1946		ar Completed 1948	Comments Alluvial gold was di followed.	scovered at Mount Rawdon by F.E. St Jo	ohn in 1946. A small gold rush
1948	to	1949	3-head battery at the	ocated in 1948 and several GMLs were to Rainbow mine in 1949 and crushed sma 5-head battery was erected at the Sunris	all ore parcels from the Rainbow,
1950	to	1950	Johns as manager. C	s combined to form the Mount Rawdon Ore from the Dawn and Sunrise was treaterill tested the O.K. lease.	
1951	to	1953	The O.K. Mining Sy	vindicate erected a 3-head battery in 1951	but did little work.
1951	to	1953	The Mount Rawdon the Dawn and Sunri	Syndicate erected a 10-head battery on to see mines. The old 3-head battery was dis- to disbanding of the Syndicate in 1953	he Falcon lease, with tramlines to
1955	to	1955	Prospecting was car	ried out at the Dawn, Locknager and Sun	rise but no gold was produced.
1978	to	1982	commenced investig	ggs applied for mining leases and Depart gations in 1978 but suspended all work at na Exploration, which purchased the leas	fter the lessees let an option to
1983	to	1997	Feasibility study car	ried out by Samantha Exploration NL an	d Placer Pacific Ltd.
1998	to	2001	treatment plant cons	used the leases 1998. A mine plan was contructed in 2000. Production commenced gn of the pit and an 80% increase in reserve	in 2001. Drilling of untested
2001	to	2016	•	of Nov 2005. A second stage of ore crush cut was completed in 2005, based on a complete of the	=
2010	to	2017	Estimated mine life at current estimates	of~8years at ~100koz pa, with operation	scheduled to continue until 2017
2010	to	2011		Newcrest assumed ownership of mine from	om Lihir Gold Ltd through
2011			Evolution assumes	00% ownership in 2011 from Newcrest	
Mining Operatio	ns			Comments	
OPEN CUT I	MINING			Now worked from one larg	e opencut.
SHAFTS				Obliterated by recent minir	ng.
ADITS				Obliterated by recent minir	ng.
TRENCHES				Obliterated by recent minir	ng.
PITS				Obliterated by recent minir	ng.

			·
TREN	CHES		Obliterated by recent mining.
PITS			Obliterated by recent mining.
UNDE	RGROUND MI	NING METHODS	Obliterated by recent mining.
STOPI	NG		Obliterated by recent mining.
Tenure Typ	e/Number	SHARE	Company Name/Surname
ML	1192	100.00%	MT RAWDON OPERATIONS PTY LTD
ML	1203	100.00%	MT RAWDON OPERATIONS PTY LTD
ML	1204	100.00%	MT RAWDON OPERATIONS PTY LTD
ML	1206	100.00%	MT RAWDON OPERATIONS PTY LTD
ML	1210	100.00%	MT RAWDON OPERATIONS PTY LTD
ML	1231	100.00%	MT RAWDON OPERATIONS PTY LTD
ML	1259	100.00%	MT RAWDON OPERATIONS PTY LTD
ML	50119	100.00%	MT RAWDON OPERATIONS PTY LTD
ML	80095	100.00%	MT RAWDON OPERATIONS PTY LTD

A Summary of Major Mineral Resources, Mines and Projects, 2016

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

SOUTH EAST QLD VOLCANIC & PLUTONIC Aranbanga Volcanic Group / MIDDLE TRIASSIC to LATE TRIASSIC

PROVINCE

Deposit Model

GENERAL OREBODY MODEL INTRUSIVE-RELATED (PORPHYRY-RELATED)

DETAILED OREBODY MODEL PORPHYRY-RELATED AURIFEROUS SUBVOLCANIC

BRECCIAS AND VEINS

Mineralisation Age

ORE LATE TRIASSIC

Comments

Gold mineralisation at Mount Rawdon is hosted by a sequence of interbedded subaerial pyroclastic flow, surge and ashfall deposits, intruded by coeval dacite bodies and irregular dacite, trachyandesite and trachyte dykes.

The bulk of the sequence consists of massive lapillistone. The gold occurs as microscopic fine grains within pyrite and sphalerite, which occur as disseminations and in irregular veinlets within and the lapillistone and dacite intrusives.

The gold is coincident with a zone of phyllic alteration that has overprinted a more widespread, pervasive zone of chlorite-carbonate alteration. Three times more silver than gold is recovered from the ore.

The Mount Rawdon gold mine commenced production in 2001, based on a resource of 37.9Mt at 1.0g/t Au and 4.0g/t Ag. Capital cost was \$34.8 million. Mining is by open cut, with a strip ratio of 1.2:1.

Treatment is by fine grinding and carbon-in-leach in a 3.2Mt per annum plant. Cash costs are \$361 per ounce. The current pit will be extended to the north-east. Equigold NL is the owner and operator.

In 2008, Equigold merged with Lihir Gold Limited. Mining in the second half of 2008 concentrated on expanding the floor of the pit and making progress on a major cut back to enable access to additional ore.

Deep diamond drilling was carried out in the March 2008 quarter to test for higher grade feeder zones below the open cut. Intersections included 29m at 3.24g/t Au from 283m and 21.5m at 1.94g/t Au from 248m.

Volcaniclastics, dacite and trachyandesite in an inverted cone shaped orebody.

In Sept 2010 Newcrest took over operations after merger with Lihir Gold Ltd. The mine to date has produced 830000 ounces of gold since operations began in 2001 (by Equigold).

2010 Processing: The process plant consists of primary and secondary crushing, SAG and ball milling, followed by conventional CIL curciut. A total of 3.4Mt were milled in 2009. Grade of ore treated increased to 1.11g/t, with ore recovery at 91% (BR9608).

Mineralisation comprises electrum, pyrite, galena, sphalerite, chalcopyrite, bornite, pyrrhotite, bismuth, bismuthinite, mathildite, hessite, limonite, chalcocite, hematite and malachite in a quartz gangue

In the March 2009 quarter, ore was sourced from the southern cut-back zone and the starter pit. Mill throughputs reduced marginally in the June 2009 quarter due to harder ores being treated. Material movements were lower due to difficult mining conditions

In 2011 Evolution acquired 100% of Mt Rawdon via Catalpa Resources and Conquest Mining merging and the concurrent acquisition of Newcrest Mining's Cracow and Mt Rawdon gold mines. 1Moz gold produced since commissioning.

In 2012 Evolution reported extension drilling results MRRC203815-3: 35.38m @1.19g/t Au & 3.21g/t Ag from 48m; MRRC203815-4: 37.14m @ 1.05g/t Au & 1.89g/t Ag from 48m; MRRC203815-4: 17.14m @ 1.89g/t Au & 3.48g/t Ag from 226m

2012 (cont.) MRRC203815-5: 12.86m @ 2.09g/t Au & 5.04g/t Ag from 8m; MRRC203815-5: 89.29m @ 0.98g/t Au & 2.18g/t Ag from 30m;

Web Page

http://www.evolutionmining.com.au/projectsMtRawdon.html

A Summary of Major Mineral Resources, Mines and Projects, 2016

42567 MOUNT RUBY

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 18KM WNW OF RAVENSHOE. 1:100 000 sheet Number and Name: 7962 RAVENSHOE

Grid Reference: Zone 55 321614 mE 8057469 mN Latitude -17.5621 Longitude 145.3192 Date Recorded: 31/January/2017

Other Names for Deposit / Mine

Commodities Size Definition

IRON SMALL 5 000 - 5 000 000 tonnes FE

MAGNETITE VERY SMALL <50 000 tonnes MT COPPER VERY SMALL <500 tonnes CU

Production Details

Period: 1-Jul-2014 to 30-Jun-2015 24,000 tonnes HARD ROCK ORE (OR REEF)

MAGNETITE 15,120.0 tonnes

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations Comments

OPEN CUT MINING

PITS

SHAFTS

Tenure Type/Number SHARE Company Name/Surname

EPM 14880 100.00% KANGAROO MINERALS PTY LTD
ML 20414 100.00% DEVELOPED IRON ORE PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

HODGKINSON PROVINCE Hodgkinson Formation / EARLY DEVONIAN to LATE DEVONIAN

Deposit Model

GENERAL OREBODY MODEL INTRUSIVE-RELATED (PORPHYRY-RELATED)

DETAILED OREBODY MODEL IRON SKARN

Mineralisation Age

ORE LATE CARBONIFEROUS

Comments

 $Mt\ Ruby\ started\ operations\ in\ 2014\ controlled\ by\ Developed\ Iron\ Ore\ Pty\ Ltd.\ This\ company\ changed\ its\ name\ to\ Mt\ Ruby\ Mines\ Pty$

Ltd in 2015.

Web Page

http://tablelandsmining.com.au/

A Summary of Major Mineral Resources, Mines and Projects, 2016

507521 MOUNT SYLVIA

OPERATING MINE

Descriptive Location: 35KM SE OF TOOWOOMBA, NEAR GATTON.

1:100 000 sheet Number and Name: 9342 HELIDON

Grid Reference: Zone 56 417343 mE 6922244 mN Latitude -27.8219 Longitude 152.1607 Date Recorded: 10/February/2017

Other Names for Deposit / Mine

Black Duck Boot Hill

Commodities Size Size Definition

DIATOMITE MEDIUM 200 000 - 2 000 000 tonnes DIAT

Production Details

Period: 1-Jul-1996 to 30-Jun-2016

DIATOMITE 18,919.0 tonnes
BUILDING STONE 297.0 tonnes
AGGREGATE 29,087.0 tonnes

Published Reserves/Resources

MOUNT SYLVIA DIATOMITE INFERRED MINERAL RESOURCE

600,000 Tonnes DIATOMITE

Comments/Cut Off Factor: Estimated reserves from Mount Sylvia Diatomite Pty Ltd website.

Resource figures listed above are NOT JORC compliant.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

1996 Mined by Mount Sylvia Diatomite Pty Ltd

Mining Operations Comments

OPEN CUT MINING

Tenure Typ	pe/Number	SHARE	Company Name/Surname
ML	5954	100.00%	MOUNT SYLVIA DIATOMITE PTY LTD
ML	5955	100.00%	MOUNT SYLVIA DIATOMITE PTY LTD
ML	5956	100.00%	MOUNT SYLVIA DIATOMITE PTY LTD
ML	5957	100.00%	MOUNT SYLVIA DIATOMITE PTY LTD
ML	5966	100.00%	MOUNT SYLVIA DIATOMITE PTY LTD
ML	50225	100.00%	MOUNT SYLVIA DIATOMITE PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

MAIN RANGE VOLCANIC SUBPROVINCE

Main Range Volcanics / EARLY TERTIARY to LATE TERTIARY

Deposit Model

GENERAL OREBODY MODEL SEDIMENT-HOSTED DEPOSIT

DETAILED OREBODY MODEL DIATOMITE DEPOSIT

Mineralisation Age

ORE TERTIARY

Comments

Mount Sylvia Diatomite Pty Ltd operates the Mount Sylvia (Black Duck) mine. Diatomite crops out on both sides of a spur. The product is a massive, near white, relatively pure diatomite. It has a chalky appearance and is generally soft and friable.

Products include various grades of diatomite for soil conditioning, pet litter, potting mix, oil and beverage clarifying, industrial and domestic spillage absorbants, fillers, abrasives, insecticides and stock feeds.

The diatomite is overlain by basalt flows. Mount Sylvia Diatomite has been stockpiling overburden for use as road base, road aggregate and a source of basalt boulders. The basalt fines (palagonite) are a potential source of soil conditioner/fertiliser.

In 2012 the Mount Sylvia Diatomite website states a basalt resource of greater than 15Mt of "palagonite". The unique combination of smectite clays from the palagonite and fresh basalt has produced as a very effective road base (Unbound paving material)

Web Page

www.mtsylviadiatomite.com.au

A Summary of Major Mineral Resources, Mines and Projects, 2016

42562 MOUNT VETERAN

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 13 KM NE OF MT GARNET, 90KM SW OF CAIRNS.

1:100 000 sheet Number and Name: 7962 RAVENSHOE

Grid Reference: Zone 55 305114 mE 8056669 mN Latitude -17.5679 Longitude 145.1638 Date Recorded: 15/December/2015

Other Names for Deposit / Mine

Mount Fraser Frazers Summer Hills

Commodities Size Definition

TIN MEDIUM 1 000 - 100 000 tonnes SN

Production Details

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

LIMITED

Published Reference ID Year Author Title Source

BR 10173 2012 MGT RESOURCES MGT RESOURCES REPORT TO THE AUSTRALIAN

PROSPECTUS STOCK EXCHANGE. 15
OCTOBER 2012, MGT
RESOURCES LIMITED

Major Mining Related Events

Year Commenced Year Completed Comments

1906 to 1907

1922 to 1922

Mining Operations Comments

OPEN CUT MINING Old workings now part of the open cut.

SHAFTS

Tenure Type/NumberSHARECompany Name/SurnameML4349100.00%MGT MINING LIMITEDML20547100.00%MGT MINING LIMITED

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

HODGKINSON PROVINCE Hodgkinson Formation / EARLY DEVONIAN to LATE DEVONIAN

Deposit Model

GENERAL OREBODY MODEL INTRUSIVE-RELATED (PORPHYRY-RELATED)

DETAILED OREBODY MODEL TIN VEINS (CORNISH-TYPE)

Mineralisation Age

ORE LATE CARBONIFEROUS

Comments

The Mount Veteran mill was constructed in 1980 to treat hard-rock tin ores in the region. MGT Resources has upgraded the Mount Veteran plant to process hard rock ore at a rate of 70,000 t/a and re-commenced production from stockpiled ore in early 2013. 2013 after granting of ML20547, MGT Resources state a tin resource to support a 10 year mine life. Commissioning of stage 1 of the Mount Veteran tin Mill is complete and full production to commence by June 2013.

Web Page

http://www.mgt.net.au/

A Summary of Major Mineral Resources, Mines and Projects, 2016

503318 MOUNT WATSON

OPERATING MINE

Descriptive Location: 24.3KM N OF MOUNT CUTHBERT MINE.

 $1{:}100\ 000$ sheet Number and Name: $6858\ ALSACE$

Grid Reference: Zone 54 383586 mE 7813391 mN Latitude -19.7717 Longitude 139.8888 Date Recorded: 30/January/2017

Other Names for Deposit / Mine

Watson

Watson Eastern Zone Watson Western Zone Watson Central Zone

Leichhardt

Commodities Size Definition

COPPER MEDIUM 50 000 - 250 000 tonnes CU

Production Details

Period: 1-Jan-1966 to 31-Dec-1966 9 tonnes HARD ROCK ORE (OR REEF)

COPPER OTHER 0.3 tonnes 3.30 percent

Period: 1-Jul-2007 to 30-Jun-2008 705,644 tonnes HARD ROCK ORE (OR REEF)

COPPER PLATE 4,656.0 tonnes

Period: 1-Jul-2013 to 30-Jun-2016

COPPER METAL 5,466.0 tonnes

Published Reserves/Resources

BR 9965 Published in 2011 MOUNT WATSON OXIDE

INDICATED MINERAL RESOURCE 1,102,000 tonnes Ore @

0.90 % COPPER FOR 9,918 Tonnes COPPER

Comments/Cut Off Factor: 0.5% Cu cutoff

BR 9965 Published in 2011 MOUNT WATSON OXIDE

INFERRED MINERAL RESOURCE 309,000 tonnes Ore @

0.80 % COPPER FOR 2,472 Tonnes COPPER

Comments/Cut Off Factor: 0.5% Cu cutoff

BR 9965 Published in 2011 MOUNT WATSON OXIDE

MEASURED MINERAL RESOURCE 1,875,000 tonnes Ore @

1.00 % COPPER **FOR** 18,750 Tonnes COPPER

 $Comments/Cut\ Off\ Factor:\ 0.5\%\ Cu\ cutoff.\ Includes\ proved\ and\ probable\ reserves\ of\ 1.167Mt\ at\ 1.04\%\ Cu.$

BR 9965 Published in 2011 MOUNT WATSON PRIMARY

INFERRED MINERAL RESOURCE 2,150,700 tonnes Ore @

0.90 % COPPER **FOR** 19,356 Tonnes COPPER

Comments/Cut Off Factor: 0.5% Cu cutoff

BR 9965 Published in 2011 MOUNT WATSON TRANSITIONAL

 $\emph{INDICATED MINERAL RESOURCE} \quad 1,463,000 \text{ tonnes Ore } @$

0.80 % COPPER **FOR** 11,704 Tonnes COPPER

Comments/Cut Off Factor: 0.5% Cu cutoff

BR 9965 Published in 2011 MOUNT WATSON TRANSITIONAL

INFERRED MINERAL RESOURCE 492,000 tonnes Ore @

0.80 % COPPER FOR 3,936 Tonnes COPPER

Comments/Cut Off Factor: 0.5% Cu cutoff

BR 9965 Published in 2011 MOUNT WATSON TRANSITIONAL

MEASURED MINERAL RESOURCE 694,000 tonnes Ore @

0.90 % COPPER **FOR** 6,246 Tonnes COPPER

Comments/Cut Off Factor: 0.5% Cu cutoff. Includes proved and probable reserves of 325,000t at 0.93% Cu.

Resource figures listed above are JORC compliant.

Published Reference ID Year Author Title Source

BR 9965 2011 CAPE LAMBERT IRON DRILLING TO INCREASE MINE ANNOUNCEMENT TO THE
ORE LTD LIFE UNDERWAY AT AUSTRALIAN SECURITIES
LEICHHARDT COPPER EXCHANGE 15 APRIL 2011

LEICHHARDT COPPER EXCHANGE, 15 APRIL 2011.

PROJECT - AMENDMENT CAPE LAMBERT IRON ORE LTD,

PERTH.

A Summary of Major Mineral Resources, Mines and Projects, 2016

Major Mining Related Events

Year Commenced 2007

Year Completed

Comments

Mining commenced in 2007. Matrix Metals will treat ore at nearby Mt Cuthbert (Leichhardt)

plant.

Mining Operations Comments

OPEN CUT MINING

PITS

Tenure Type/Number SHARE Company Name/Surname

100.00% MALACO LEICHHARDT PTY LTD ML90154

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

KALKADOON-LEICHHARDT DOMAIN Surprise Creek Formation / PALAEOPROTEROZOIC to

PALAEOPROTEROZOIC

Deposit Model

GENERAL OREBODY MODEL BRECCIA-HOSTED

DETAILED OREBODY MODEL BRECCIATED SEDIMENT-HOSTED COPPER

GENERAL OREBODY MODEL RESIDUAL DEPOSIT **SUPERGENE ENRICHED**

Mineralisation Age

ORE **PROTEROZOIC**

Comments

Mineralisation at Mount Watson is contained within the Surprise Creek Formation and is structurally controlled occurring along a prominent north-west fault zone in sheared and altered siltstone and carbonaceous slate.

The mineralisation is located at or near the contact between the siltstone and slate with quartzite. The dip of this mineralisation is

Mining commenced at Mount Watson in April 2007. Production of copper cathode using Mount Watson ore commenced at the Leichhardt (Mount Cuthbert) heap leach - SX/EW plant in July 2007 and the first copper was transported to Townsville in the same

The leaching performance of Mount Watson ore proved to be excellent. Mining of the orebody was planned to be a two-stage development with a potential mine life of 5 years.

Stage 1 reserves comprise 1.167Mt of proved and probable oxide ore at 1.04% Cu and 0.325Mt of proved and probable transitional ore at 0.93% Cu, using a 0.6% Cu cut-off.

In November 2008, Matrix Metals went into voluntary administartion due to falling copper prices and debt.

Web Page

www.matrixmetals.com.au

A Summary of Major Mineral Resources, Mines and Projects, 2016

481872 MOUNT WRIGHT

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 9.0KM NW OF RAVENSWOOD, 80KM SOUTH OF TOWNSVILLE.

1:100 000 sheet Number and Name: 8257 RAVENSWOOD

Grid Reference: Zone 55 482430 mE 7784035 mN Latitude -20.0404 Longitude 146.8320 Date Recorded: 31/January/2017

Other Names for Deposit / Mine

Mother Lode Mount Right

Mount Wright Extended
The Mother Lode

CommoditiesSizeSize DefinitionGOLDMEDIUM5 - 50 tonnes AUSILVERVERY SMALL<5 tonnes AG</td>COPPERVERY SMALL<500 tonnes CU</td>

Production Details

Period: 1-Jan-1917 to 31-Dec-1942 6,078 tonnes HARD ROCK ORE (OR REEF)
GOLD BULLION 48.0 kilograms 7.50 grams per tonne

COPPER MATTE 1.1 tonnes

Period: 1-Jul-1992 to 30-Jun-1993 104,000 tonnes HARD ROCK ORE (OR REEF)

GOLD BULLION 521.6 kilograms 4.60 grams per tonne

Period: 1-Jul-2009 to 30-Jun-2016

GOLD FINE 16,824.9 kilograms SILVER 5,554.7 kilograms

Published Reserves/Resources

BR 10444 Published in 2015 MOUNT WRIGHT INSITU

PROBABLE ORE RESERVE 411,000 tonnes Ore @

1.80 g/t GOLD **FOR** 739 Kilograms GOLD

Comments/Cut Off Factor: 2.3 g/t Au cut-off

BR 10444 Published in 2015 **MOUNT WRIGHT INSITU**

 $\textit{PROVED ORE RESERVE}\quad 1,644,000 \text{ tonnes Ore } @$

2.70 g/t GOLD **FOR** 7,195 Kilograms GOLD

Comments/Cut Off Factor: 2.3 g/t Au cut-off

BR 10444 Published in 2015 MOUNT WRIGHT STOCKPILES

 $\mbox{\it PROBABLE ORE RESERVE}~$ 91,000 tonnes Ore @

2.40 g/t GOLD **FOR** 218 Kilograms GOLD

Comments/Cut Off Factor: 2.3 g/t Au cut-off

BR 10444 Published in 2015 **MOUNT WRIGHT**

INDICATED MINERAL RESOURCE 287,000 tonnes Ore @

3.30 g/t GOLD **FOR** 947 Kilograms GOLD

Comments/Cut Off Factor: 1.8 g/t Au cut-off

BR 10444 Published in 2015 MOUNT WRIGHT

INFERRED MINERAL RESOURCE 1,079,000 tonnes Ore @

3.10 g/t GOLD **FOR** 2,997 Kilograms GOLD

Comments/Cut Off Factor: 1.8 g/t Au cut-off

BR 10444 Published in 2015 MOUNT WRIGHT

 $\it MEASURED MINERAL RESOURCE 144,000 tonnes Ore @$

3.90 g/t GOLD FOR 561 Kilograms GOLD

Comments/Cut Off Factor: 1.8 g/t Au cut-off

Resource figures listed above are JORC compliant.

Published Reference ID Year Author Title Source

BR 10444 2015 RESOLUTE MINING A PROVEN GOLD PRODUCER > RESOLUTE MINING LIMITED,

LIMITED ANNUAL REPORT 2015 PERTH.

HTTP://HTTP://WWW.RML.COM.

U/

A Summary of Major Mineral Resources, Mines and Projects, 2016

Major Mining Related Events

Year Commen	ced	Year Completed	Comments		
1917	to	1929			
1938	to	1942			
1992	to	1993	Open cut mining and block caving from adit by Carpentaria Gold Ltd. Ore mined from mineralised granite breccia.		
1996	to	1997	Discovery of major mineralised system at 500m depth by Carpentaria Gold Ltd in December 1996.		

Operating Mine Life: 2006 to 2015 Decision made to proceed with development of an underground mine accessed from a decline. Mining planned to occur in 2 stages with production from mid-2007 and an 8 year minelife.

Mining Operations Comments

OPEN CUT MINING

UNDERGROUND MINING METHODS

ADITS Adit allowed access below the open cut workings and block cave

extraction of the orebody. The adit trends 338 degrees.

DECLINED SHAFTS/DRIVES

Tenure Type	e/Number	SHARE	Company Name/Surname
ML	1338	100.00%	CARPENTARIA GOLD PTY. LTD.
ML	1435	100.00%	CARPENTARIA GOLD PTY. LTD.

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

MACROSSAN IGNEOUS ASSOCIATION Millaroo Granite / ORDOVICIAN to ORDOVICIAN

KENNEDY IGNEOUS ASSOCIATION CPr-8257 / LATE CARBONIFEROUS to EARLY PERMIAN

Deposit Model

GENERAL OREBODY MODEL INTRUSIVE-RELATED (PORPHYRY-RELATED)

DETAILED OREBODY MODEL PORPHYRY-RELATED AURIFEROUS SUBVOLCANIC

BRECCIAS AND VEINS

Mineralisation Age

ORE LATE CARBONIFEROUS to LATE Mother Lode & Main Lode. 40Ar/39Ar date on CARBONIFEROUS sericite alteration of ~306 Ma (Perkins & Kennedy,

1998)

Comments

The Mother Lode deposit was first mined in 1917-1929. It consisted of disseminated sulphides and minor quartz-siderite-sulphide veins in altered and brecciated Millaroo Granite. Workings comprised 2 connected open cuts, 2 adits and a vertical shaft.

The mine was reopened in 1938. Problems with the nature of the ore and a lack of available mineable ore led to the closure of the mine in 1942. Departmental drilling was carried out at Mount Wtight in 1955-1956. Four diamond core holes were completed.

Drilling focused on extensions of the Mother Lode. Only low-grade mineralisation averaging ~7.89g/t Au was intersected. Carpentaria Gold Pty Ltd mined the Mother Lode in 1992 and 1993 via its "Glory Hole" workings.

The Mount Wright orebody is west of the Mother Lode and was discovered by Carpentaria Gold Pty Ltd in December 1996. It is a blind orebody occurring between 200 and 500 depth.

It consists of gold-sulphides-sericite-siderite mineralisation hosted by brecciated and flow-banded rhyolite.

The gold mineralisation at Mount Wright is associated with a Permo-Carboniferous rhyolite that intrudes the Early to Middle Ordovician Millaroo Granite in the eastern portion of the Ravenswood Batholith.

The bulk of the mineralisation is hosted by altered and brecciated rhyolite with a small amount hosted by granite breccia. This mineralisation is thought to be a mineralised diatreme breccia lying above an originally volatile-charged rhyolite intrusive.

Development work at Mount Wright began in June 2006. 67731t of ore @ 1.48g/t Au was mined in the 2006/07 financial year. Mount Wright began full scale production in June 2007. 474282t of ore @ 2.24g/t Au in 2007/08 (BR 8908).

547724t of ore @2.43g/t Au was mined in 2008/09 (BR 9413). Production from Mount Wright is included in the production from the Sarsfield open cut mine until Sarsfield stockpiles are depleted.

Web Page

http://www.resolute-ltd.com.au/

A Summary of Major Mineral Resources, Mines and Projects, 2016

493348 MURGON

OPERATING MINE

Descriptive Location: 6 KM SOUTH-EAST OF MURGON

1:100 000 sheet Number and Name: 9245 MURGON

Grid Reference: Zone 56 397725 mE 7091975 mN Latitude -26.2883 Longitude 151.9756 Date Recorded: 10/February/2017

Other Names for Deposit / Mine

Barambah Quarry

Moffatdale Limestone Deposit

Commodities Size Definition

LIMESTONE MEDIUM 2 000 000 - 10 000 000 tonnes LST

Production Details

Period: 1-Jul-1954 to 30-Jun-1955

LIMESTONE OTHER 12.0 tonnes

Period: 1-Jul-1996 to 30-Jun-2016

LIMESTONE OTHER 1,574,843.4 tonnes

Published Reserves/Resources

BARAMBAH LIMESTONE QUARRY

INDICATED MINERAL RESOURCE

3,000,000 Tonnes LIMESTONE

Resource from correspondence from Greg Cochrane (David Mitchell Ltd) dated 28/6/99

BR 5767 Published in 1977

BARAMBAH LIMESTONE

INFERRED MINERAL RESOURCE 110,000 tonnes Ore @

110,000 Tonnes LIMESTONE

Martin (1977) estimated reserves of 110,000t.

Resource figures listed above are NOT JORC compliant.

Published Reference ID Year Author Title Source

BR 5767 1977 MARTIN,J.E. PART B - BARAMBAH GEOLOGICAL SURVEY OF

LIMESTONE DEPOSITS, QUEENSLAND, REPORT NO. 97.

MURGON

Major Mining Related Events

Year Commenced Year Completed Comments

1954 to 1959 3 shallow pits excavated by T.R. Lowth

1996 Operated by Unimin Lime (NSW) Pty Ltd

Mining Operations Comments

OPEN CUT MINING

Tenure Type/Number SHARE Company Name/Surname
ML 50111 100.00% SIBELCO LIME (NSW) PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

YARRAMAN SUBPROVINCE Maronghi Creek beds / LATE DEVONIAN to EARLY CARBONIFEROUS

Deposit Model

GENERAL OREBODY MODEL SEDIMENT-HOSTED DEPOSIT

DETAILED OREBODY MODEL LIMESTONE DEPOSIT

Mineralisation Age

ORE DEVONIAN

Comments

Massive medium grey limestone.

Unimin Australia Ltd's Murgon limestone and aggregate quarry averages some 80,000t of limestone production annually. In 2011 Unimin

Australia and New Zealand adopt parent company name 'Sibelco'

Web Page

http://www.sibelco.com.au/

A Summary of Major Mineral Resources, Mines and Projects, 2016

518220 NUBRIK NO 1

OPERATING MINE

Descriptive Location: 5.9KM EAST OF IPSWICH. 1:100 000 sheet Number and Name: 9442 IPSWICH

Grid Reference: Zone 56 482219 mE 6944128 mN Latitude -27.6267 Longitude 152.8198 Date Recorded: 15/December/2015

Other Names for Deposit / Mine

Commodities Size Definition

BRICK CLAY MEDIUM 200 000 - 20 000 000 tonnes BKCY

Production Details

Period: 1-Jul-1996 to 30-Jun-2010

BRICK CLAY 588,564.6 tonnes

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations Comments

OPEN CUT MINING

Tenure Type/Number SHARE Company Name/Surname

ML 50115 100.00% BOGSIDE MINING INDUSTRIES PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

IPSWICH BASIN Tivoli Formation / CARNIAN to CARNIAN

Deposit Model

GENERAL OREBODY MODEL SEDIMENT-HOSTED DEPOSIT

DETAILED OREBODY MODEL SEDIMENTARY CLAY DEPOSITS

Mineralisation Age

ORE MESOZOIC

Comments

Clay pit for Austral Bricks.

Web Page

www.australbrick.com.au

A Summary of Major Mineral Resources, Mines and Projects, 2016

495594 NUMINBAH PERLITE

OPERATING MINE

Descriptive Location: MCPHERSON RANGE, 11 KM SOUTH-EAST OF BEECHMONT, 75KM SOUTH OF BRISBANE.

1:100 000 sheet Number and Name: 9541 MURWILLUMBAH

Grid Reference: Zone 56 524124 mE 6880239 mN Latitude -28.2033 Longitude 153.2458 Date Recorded: 10/February/2017

Other Names for Deposit / Mine

Agee

Commodities Size Size Definition

PERLITE MEDIUM 200 000 - 2 000 000 tonnes PERL

Production Details

Period: 1-Jul-1993 to 30-Jun-2016

PERLITE 82,205.3 tonnes

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations Comments

OPEN CUT MINING 180m long x 50m wide and cut into side of step ridge. Adit at base

of cut.

ADITS Small adit accessing perlite below open cut.

UNDERGROUND MINING METHODS

 Tenure Type/Number
 SHARE
 Company Name/Surname

 ML
 5915
 100.00%
 X-CUT TUNNELLING PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

LAMINGTON VOLCANIC SUBPROVINCE Lamington Group / EARLY TERTIARY to LATE TERTIARY

Deposit Model

GENERAL OREBODY MODEL MAFIC VOLCANIC RELATED DEPOSIT

DETAILED OREBODY MODEL VOLCANIC GLASS

Mineralisation Age

ORE TERTIARY

Comments

The site has been mined periodically for around 30 years, with Australian Perlite holding the lease since the early 1980s. The perlite

occurs at the margin of a rhyolite dome. Approximately 15-20 000t is kept proved ahead of mining.

The mine is currently owned by X-Cut Tunnelling Pty Ltd, which supplies perlite to Orica Chemnet's Banksmeadow plant in Sydney.

Expanded perlite is produced for filtration and the hydroponic and agricultural industries.

A Summary of Major Mineral Resources, Mines and Projects, 2016

493676 NYCHUM PERLITE

OPERATING MINE

Descriptive Location: 50KM NW OF CHILLAGOE, 145KM WEST OF CAIRNS.

1:100 000 sheet Number and Name: 7764 BELLEVUE

Grid Reference: Zone 55 213056 mE 8143076 mN Latitude -16.7778 Longitude 144.3082 Date Recorded: 15/December/2015

Other Names for Deposit / Mine

Wrotham Perlite Chillagoe Perlite Wrotham Central

Commodities Size Size Definition

PERLITE LARGE >2 000 000 tonnes PERL

Production Details

Period: 1-Jul-1996 to 30-Jun-2013

PERLITE 46,319.0 tonnes

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

1986 to 1986 The perlite deposit was discovered by Eddie James in 1986 during a regional geochemistry

survey but its presence had been noted previously by several geologists carrying out mapping

in the region.

1998 Mining commenced in 1998 with a perlite expansion plant designed and built near Mareeba.

Mining Operations Comments

OPEN CUT MINING 60 x 50 metres

Tenure Type/Number SHARE Christian Name Company Name/Surname ML20152 100.00% **MEYER** Ian Derek ML20369 100.00% PERLCO PTY LIMITED PERLCO PTY LIMITED ML 20370 100.00%

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

KENNEDY IGNEOUS ASSOCIATION Nychum Volcanics / EARLY PERMIAN to EARLY PERMIAN

Deposit Model

DETAILED OREBODY MODEL VOLCANIC GLASS

GENERAL OREBODY MODEL MAFIC VOLCANIC RELATED DEPOSIT

Mineralisation Age

ORE EARLY PERMIAN

Comments

The perlite is fairly homogenous and formed as a crust on the rhyolite flow of the Nychum Volcanics. The perlite has a lower fusion point than most other perlite deposits in the world.

A Summary of Major Mineral Resources, Mines and Projects, 2016

493623 NYORA

OPERATING MINE

Descriptive Location: APPROX 15KM S OF KINGAROY, 140KM NW OF BRISBANE.

1:100 000 sheet Number and Name: 9244 KINGAROY

Grid Reference: Zone 56 385355 mE 7049115 mN Latitude -26.6743 Longitude 151.8478 Date Recorded: 10/February/2017

Other Names for Deposit / Mine

Nyora 2

Nyora 4 Nyora 5

Commodities Size Size Definition

KAOLIN / KAOLINITE MEDIUM 200 000 - 20 000 000 tonnes KAO

Production Details

Period: 1-Jul-1996 to 30-Jun-2016

KAOLIN / KAOLINITE 105,431.3 tonnes

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

Operating Mine Life: 1992 to 2012 Mining commenced 1992 with export sales achieved in 1995.

Mining Operations Comments

OPEN CUT MINING

Tenure Type/NumberSHARECompany Name/SurnameML5684100.00%SIBELCO AUSTRALIA LIMITEDML6621100.00%SIBELCO AUSTRALIA LIMITEDML50130100.00%SIBELCO AUSTRALIA LIMITED

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

TARONG BASIN Tarong beds/k / CARNIAN to CARNIAN

Deposit Model

GENERAL OREBODY MODEL RESIDUAL DEPOSIT
DETAILED OREBODY MODEL LATERITIC KAOLIN

Mineralisation Age

ORE TERTIARY

Comments

Seventy percent of the kaolin produced from the Kingaroy kaolin deposits is used in the paper industry, mostly as coating clay. The remaining 30% is used in the paint and plastics industries.

Nyora kaolin has lower grit and higher brightness than kaolin from Winter's pit and is used as a filler grade. Nyora pit kaolin is overlain by silcrete, overlain by basalt. The kaolin is underlain by Tarong beds and coal.

This is one of several mines operated by Unimin Australia Ltd to supply kaolin for its Kingaroy processing plant. In 2011 Unimin

Australia and New Zealand adopt parent company name 'Sibelco'

Web Page

http://www.sibelco.com.au

A Summary of Major Mineral Resources, Mines and Projects, 2016

497864 O'DEA EXTENDED

OPERATING MINE

Descriptive Location: 30KM NE STANTHORPE, 130KM SW OF BRISBANE.

1:100 000 sheet Number and Name: 9341 WARWICK

Grid Reference: Zone 56 412674 mE 6858574 mN Latitude -28.3962 Longitude 152.1086 Date Recorded: 10/February/2017

Other Names for Deposit / Mine

Elbow Valley Warwick O'Dea

Commodities Size Size Definition

LIMESTONESMALL100 000 - 2 000 000 tonnes LSTMARBLESMALL10 000 - 100 000 tonnes MARBBUILDING STONEVERY SMALL<100 000 tonnes BLST</td>

Production Details

Period: 1-Jul-1998 to 30-Jun-2016

LIMESTONE CRUSHED ROCK 1,533,590.0 tonnes
MARBLE 14,944.0 tonnes
LIMESTONE AGGREGATE / 220,117.0 tonnes

DECORATIVE AGGREGATE

Published Reserves/Resources

BR 6096 Published in 1999

INFERRED MINERAL RESOURCE

850,000 Tonnes LIMESTONE

Resource figures listed above are NOT JORC compliant.

Published Reference ID Year Author Title Source

BR 6096 1999 GREG COCHRANE CORRESPONDANCE FROM DAVID MITCHELL LIMITED ON

THE 28/06/1999

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations Comments

OPEN CUT MINING

Tenure Type/NumberSHARECompany Name/SurnameML50083100.00%SIBELCO LIME (NSW) PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

SILVERWOOD PROVINCE Rosenthal Creek Formation / DEVONIAN to DEVONIAN

Deposit Model

GENERAL OREBODY MODEL SEDIMENT-HOSTED DEPOSIT

DETAILED OREBODY MODEL LIMESTONE DEPOSIT

Mineralisation Age

ORE DEVONIAN

Comments

In 2011 Unimin Australia and New Zealand adopt parent company name 'Sibelco'

Web Page

http://www.sibelco.com.au

A Summary of Major Mineral Resources, Mines and Projects, 2016

44326 OAKLEIGH LIME

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 12.6 KM NE OF TEXAS, WEST OF STANTHORPE, 220KM SW OF BRISBANE.

1:100 000 sheet Number and Name: 9140 TEXAS

Grid Reference: Zone 56 331555 mE 6814700 mN Latitude -28.7842 Longitude 151.2743 Date Recorded: 8/February/2017

Other Names for Deposit / Mine

Limestone Hills

Commodities Size Size Definition

LIMESTONE LARGE >10 000 000 tonnes LST

Production Details

Period: 1-Jul-2012 to 30-Jun-2016

LIMESTONE CRUSHED ROCK 754.4 tonnes

Published Reserves/Resources

BR 2818 Published in 1973

INFERRED MINERAL RESOURCE

2,400,000 Tonnes Per Vertical Metre LIMESTONE

3/06/1999, Mining to commence in near future.

Resource figures listed above are NOT JORC compliant.

Published Reference ID Year Author Title Source

BR 2818 1973 SIEMON, J.E. LIMESTONE RESOURCES OF GEOLOGICAL SURVEY OF THE WARWICK-TEXAS AREA. QUEENSLAND, REPORT 80.

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations

Tenure Type/NumberSHARECompany Name/SurnameChristian NameML50145100.00%MUNROCharles Alexander

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

TEXAS SUBPROVINCE Texas beds / EARLY CARBONIFEROUS to EARLY CARBONIFEROUS

Deposit Model

GENERAL OREBODY MODEL SEDIMENT-HOSTED DEPOSIT

DETAILED OREBODY MODEL LIMESTONE DEPOSIT

Mineralisation Age

ORE LATE DEVONIAN to EARLY Limestone.

CARBONIFEROUS

Comments

Four limestone bodies crop out along the northern flank of a fold structure between Orana and Tooliambi. The limestone contains some

fossil fragments and irregular calcite and siderite veins. The bulk of the material is homogenous.

A Summary of Major Mineral Resources, Mines and Projects, 2016

497094 OLDMAN SOUTH

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 14 KM EAST-SOUTH-EAST OF KUNWARARA, 135KM NW OF GLADSTONE.

1:100 000 sheet Number and Name: 8952 PRINCHESTER

Grid Reference: Zone 56 219980 mE 7459730 mN Latitude -22.9470 Longitude 150.2694 Date Recorded: 9/December/2015

Other Names for Deposit / Mine

Commodities Size Definition

MAGNESITE LARGE >10 000 000 tonnes MS

Production Details

Published Reserves/Resources

BR 9837 Published in 2004

OLDMAN SOUTH

 $\it MEASURED MINERAL RESOURCE~38,400,000 tonnes Ore @$

11,600,000 Tonnes MAGNESITE

Includes probable reserves of 23.3Mt for 7.0Mt of magnesite.

Resource figures listed above are JORC compliant.

Published Reference ID Year Author Title Source

BR 9837 2004 AUSTRALIAN AUSTRALIAN MAGNESIUM AUSTRALIAN MAGNESIUM CORPORATION LIMITED CORPORATION LIMITED

CORPORATION LIMITED ANNUAL REPORT JUNE 2004

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations

Tenure Typ	e/Number	SHARE	Company Name/Surname
MDL	344	40.00%	QMC (KUNWARARA) PTY LIMITED
MDL	344	10.00%	QMC REFMAG PTY LTD
MDL	344	50.00%	QMCH PTY LTD
ML	5870	40.00%	QMC (KUNWARARA) PTY LIMITED
ML	5870	10.00%	QMC REFMAG PTY LTD
ML	5870	50.00%	QMCH PTY LTD
ML	80125	40.00%	QMC (KUNWARARA) PTY LIMITED
ML	80125	10.00%	QMC REFMAG PTY LTD
ML	80125	50.00%	QMCH PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

HERBERT CREEK BASIN Kunwarara Magnesite / TERTIARY to TERTIARY

Deposit Model

GENERAL OREBODY MODEL SEDIMENT-HOSTED DEPOSIT
DETAILED OREBODY MODEL NODULAR MAGNESITE

Mineralisation Age

ORE TERTIARY

Comments

This is a resource extension of the Kunwarara magnesite deposit.

Magnesite has formed within river gravels and sands of a north-flowing palaeostream. Magnesite has been deposited from magnesium-rich groundwaters derived from the weathering of adjacent serpentinite basement and has grown to form accretionary

nodules

Web Page www.qmag.com.au; www.am-technologies.com.au

A Summary of Major Mineral Resources, Mines and Projects, 2016

38470 **OOTANN**

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 11KM SSW OF ALMADEN, 125KM WSW OF CAIRNS.

1:100 000 sheet Number and Name: 7863 CHILLAGOE

Grid Reference: Zone 55 249516 mE 8070765 mN Latitude -17.4350 Longitude 144.6418 Date Recorded: 10/February/2017

Other Names for Deposit / Mine

Crotty Lime **Dml Lime Works**

Commodities **Size Definition** Size

LIMESTONE LARGE >10 000 000 tonnes LST LIME **SMALL** 10 000 - 100 000 tonnes LIME

AGGREGATE

ROAD PAVEMENT GRAVEL

Production Details

Period: 1-Jan-1972 31-Dec-1975 17,896 tonnes HARD ROCK ORE (OR REEF)

BURNT LIME 32.575.0 tonnes PULVERISED LIME 470.0 tonnes

Period: 1-Jul-1996 30-Jun-2000

LIME 91,023.0 tonnes AGGREGATE 3,178.0 tonnes CRUSHED ROCK LIMESTONE 8,169.0 tonnes

Period: 1-Jul-1997 30-Jun-2000

AGGREGATE Period: 1-Jul-2000 30-Jun-2001 to

AGGREGATE 372.0 tonnes CRUSHED ROCK 30,322.0 tonnes

LIMESTONE

Period: 1-Jul-2002 30-Jun-2003 CRUSHED ROCK LIMESTONE 7,142.0 tonnes ROAD PAVEMENT GRAVEL 4,238.0 tonnes

Period: 1-Jul-2003 30-Jun-2016

LIMESTONE OTHER 42,356.4 tonnes

Published Reserves/Resources

OOTANN

INFERRED MINERAL RESOURCE 35,000,000 tonnes Ore @ 35,000,000 Tonnes LIMESTONE

Sourced from Phoenix Lime website - www.phoenixlime.com.au (in 2010)

907.0 tonnes

Resource figures listed above are JORC compliant.

Published Referen	ce I	D Year Author	Title	Source		
Major Mining Related Events						
Year Commence	d	Year Completed	Comments			
1927	to	1981	Limestone mined to produce burnt lime.			
1996	to	2001	Mined by David Mitchell Pty Ltd with most bur Kidston.	nt lime supplying gold treatment operations at		
Mining Operations			Comments			

OPEN CUT MINING

SURFACE MINING METHODS

PITS

Tenure Type/Number		SHARE	Company Name/Surname
ML	4788	100.00%	PHOENIX LIME PTY LTD
ML	4789	100.00%	PHOENIX LIME PTY LTD
ML	5079	100.00%	PHOENIX LIME PTY LTD
ML	5372	100.00%	PHOENIX LIME PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

HODGKINSON PROVINCE Chillagoe Formation / EARLY SILURIAN to EARLY DEVONIAN

A Summary of Major Mineral Resources, Mines and Projects, 2016

Deposit Model

GENERAL OREBODY MODEL SEDIMENT-HOSTED DEPOSIT

DETAILED OREBODY MODEL LIMESTONE DEPOSIT

Mineralisation Age

ORE SILURIAN Material mined is a medium to coarse grained

marble ranging to limestone.

Comments

This is part of a 4km long by 2km wide belt of massive, partly recrystallised limestone. The limestone is mined selectively to avoid mudstone lenses and fractured infill. It is held by Phoenix Lime Pty Ltd (a wholly owned subsidiary of Metallica Minerals). Phoenix Lime Pty Ltd is investigating the construction of a new lime kiln at the Ootann operation for the life span of the NORNICO nickel project. A comprehensive drilling program has been completed to establish a 10 year plus production plan.

Web Page

www.metallicaminerals.com.au

A Summary of Major Mineral Resources, Mines and Projects, 2016

493678 OSBORNE

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 32 KM ESE OF CHATSWORTH HS, 195KM SE OF MT ISA.

1:100 000 sheet Number and Name: 7053 TOOLEBUC

Grid Reference: Zone 54 457100 mE 7558086 mN Latitude -22.0815 Longitude 140.5842 Date Recorded: 18/January/2017

Other Names for Deposit / Mine

Osborne Project

GOLD

Trough	Tank					
Commodities					Size	Size Definition
COPPER					LARGE	250 000 - 2 000 000 tonnes CU
GOLD					MEDIUM	5 - 50 tonnes AU
MAGNE	TITE				LARGE	>1 000 000 tonnes MT
Production D	etails					
Period:	1-Jul-1995	to	30-Jun-1999		6,218,000 tonnes HARD RO	CK ORE (OR REEF)
GOLD				BULLION	4,045.4 kilograms	0.90 grams per tonne
COPPE	R			METAL	157,590.0 tonnes	2.60 percent
Period:	1-Jul-1999	to	30-Jun-2001			
GOLD				BULLION	2,393.9 kilograms	
COPPE	R			METAL	93,745.0 tonnes	
Period:	1-Jul-2001	to	30-Jun-2003		3,676,000 tonnes HARD RO	CK ORE (OR REEF)
COPPE	R			METAL	93,256.0 tonnes	
GOLD				BULLION	6,616.5 kilograms	
Period:	1-Jul-2003	to	30-Jun-2016			
SILVEI	}				77.2 kilograms	
COPPE	i.R			METAL	275,387.0 tonnes	

6,679.4 kilograms

METAL

A Summary of Major Mineral Resources, Mines and Projects, 2016

Published Reserves/Resources

BR 9984 Published in 2012 **OSBORNE OPEN CUT**

INDICATED MINERAL RESOURCE 200,000 tonnes Ore @

0.70 % COPPER FOR 1,400 Tonnes COPPER 0.60 g/t GOLD FOR 120 Kilograms GOLD

Comments/Cut Off Factor: 0.5% equiv Cu cut-off

BR 9984 Published in 2012 OSBORNE OPEN CUT

INFERRED MINERAL RESOURCE 100,000 tonnes Ore @

0.60 % COPPER FOR 600 Tonnes COPPER

0.60 g/t GOLD FOR 60 Kilograms GOLD

Comments/Cut Off Factor: 0.5% equiv Cu cut-off

BR 9984 Published in 2012 OSBORNE OPEN CUT

MEASURED MINERAL RESOURCE 2,200,000 tonnes Ore @

0.70 % COPPER **FOR** 15,400 Tonnes COPPER 0.60 g/t GOLD **FOR** 1,320 Kilograms GOLD

Comments/Cut Off Factor: 0.5% equiv Cu cut-off

These figures have not been updated since Chinova took over this tenement. The resource will be mined out

by August 2015.

BR 9984 Published in 2012 **OSBORNE UNDERGROUND**

INDICATED MINERAL RESOURCE 800,000 tonnes Ore @

1.20 % COPPER FOR 9,600 Tonnes COPPER 0.90 g/t GOLD FOR 720 Kilograms GOLD

0.90 g/t GOLD FOR Comments/Cut Off Factor: 1.2% equiv Cu cut-off

BR 9984 Published in 2012 **OSBORNE UNDERGROUND**

INFERRED MINERAL RESOURCE 500,000 tonnes Ore @.

1.20 % COPPER FOR 6,000 Tonnes COPPER 0.90 g/t GOLD FOR 450 Kilograms GOLD

Comments/Cut Off Factor: 1.2% equiv Cu cut-off

BR 9984 Published in 2012 OSBORNE UNDERGROUND

MEASURED MINERAL RESOURCE 2,100,000 tonnes Ore @

1.50 % COPPER FOR 31,500 Tonnes COPPER 0.90 g/t GOLD FOR 1,890 Kilograms GOLD

Comments/Cut Off Factor: 1.2% equiv Cu cut-off

BR 8653 Published in 2008 TAILINGS

INFERRED MINERAL RESOURCE 15,550,000 tonnes Ore @

35.00 % MAGNETITE **FOR** 5,442,500 Tonnes MAGNETITE

Comments/Cut Off Factor: Tailings grade 35-56% magnetite

Resource figures listed above are NOT JORC compliant.

Published Reference ID	Year Author	Title	Source
BR 8653	2008 COE, R. & EVANS, C.	BARRICK (OSBORNE) PTY	UNPUBLISHED REPORT,
		LIMITED MAGNETITE	BARRICK (OSBORNE) PTY
		PROJECT. INITIAL ADVICE	LIMITED, TOWNSVILLE.
		STATEMENT FOR	
		DEPARTMENT OF	
		INFRASTRUCTURE AND	
		PLANNING.	
BR 9984	2012 SRK CONSULTING	OSBORNE NI 43-101	HTTP://WWW.IVANHOEAUSTRA
		TECHNICAL REPORT FOR	LIA.COM/S/TECHNICALREPORTS
		OSBORNE COPPER-GOLD	.ASP, 2 NOVEMBER 2012.
		PROJECT LOCATED IN	IVANHOE AUSTRALIA LIMITED,
		NORTHWEST QUEENSLAND	MELBOURNE.
		REGION OF AUSTRALIA	

A Summary of Major Mineral Resources, Mines and Projects, 2016

Major Mining Re	lated Eve	nts	,,,,,		
Year Commence	d Year		Comments		
1974	to	1974	Newmont first located a magnetic high geophysical feature.		
1985	to	1988	CSR Limited entered into a joint venture with Shell Company of Australia.		
1988	to		Placer Exploration ltd acquired the CSR Limited Mineral Exploration and Development Group. By mid 1993 Placer had undertaken >100km of exploration drilling and spent >\$15 million on resource evaluation.		
1989	to	1989	Discovery (Placer Pacific Exploration Limited): 32m @ 5.8% Cu & 3.2g/t Au.		
1994	to		Development of the project commenced following feasibility study. Open pit mining commenced in August 1994, production commenced 1995.		
1995	to	1995	Underground mining commenced in August 1995.		
1996	to		Open pit mining was completed in February 1996 and continued to supplement the mill from stockpiles. Underground production began in April 1996.		
2004	to		Projected mine life of 5 years underground. Mine acquired by Barrick Gold Corporation in March 2006.		
2010	to	2010	Ivanhoe acquired Osborne and developed access to undergound Kulthor through Osborne pit		
2011			Refurbishment of Osborne plant facilities and underground access to Kulthor, Mining to commence in Q2 2012		
Mining Operations	s		Comments		
OPEN CUT M	INING		Open cut 140m deep.		
UNDERGROU	JND MIN	ING METHODS	Panel stoping used in the upper part of the orebody and uphole bench stoping used at depth.		
DECLINED SHAFTS/DRIVES			5m by 5.5m decline. Portal located in the wall of the open cut 80m below surface. The main decline has been developed to a depth of 880m below surface.		
SHAFTS	SHAFTS		Hoisting shaft 700m deep used to raise ore after primary crushing underground.		
STOPING					
Tenure Type/Numl	ber	SHARE	Company Name/Surname		
ML 9004		100.00%	CHINOVA RESOURCES OSBORNE PTY LTD		
ML 9015	8	100.00%	CHINOVA RESOURCES OSBORNE PTY LTD		
Host Rock/Cover		es			
Structural Unit KURIDALA-S		DOMAIN	Formation Name/Age		
KUKIDALA-S	DELWIN	DOMAIN	Starcross Formation / PALAEOPROTEROZOIC to PALAEOPROTEROZOIC		
Deposit Model					
GENERAL OF	REBODY	MODEL	HYDROTHERMAL VEINS/PIPE/STOCKWORK		
DETAILED O	REBODY	MODEL	IRON-OXIDE CU-AU (-U-REE)		
Mineralisation Age	p				
ORE	·	MESOPRO	OTEROZOIC Ore formation at 1595Ma fro U-Pb and Re-Os age dates. Closure temperature for mineralisation was 700 degrees centegrade.		

A Summary of Major Mineral Resources, Mines and Projects, 2016

Comments

Osborne is a blind deposit beneath 20 to 40 m of Mesozoic sediments. Much of the mineralisation is hosted by and overprints banded quartz-magnetite-apatite ironstones developed within the host sequence of metamorphic, igneous and metasomatic rocks.

Mineralisation is zoned from hematite to pyrrhotite bearing, and sulphides are commonly accompanied by a late generation of magnetite. Osborne is run by Barrick Gold Corporation after it acquired Placer Dome in March 2006. In 2010, Ivanhoe Australia Limited announced that it had reached an agreement to acquire the Osborne mine, processing plant and tenements from Barrick.

Proposed production is ~770,000 tpa of magnetite concentrate (66-69% Fe). Osborne ore contains 30-55% magnetite. Osborne also has 15.55Mt of tailings grading 28-45% magnetite ready for reprocessing and an unquatified unmineralised ironstone resource.

Osborne has letters of intent to purchase the magnetite from a range of organisations, including steel mills in Japan and China. Magnetite will also be supplied for coal washing. An additional water allocation is required from the Great Artesian Basin.

In April 2008, the Coordinator-General declared the Osborne Magnetite Project a "significant project for which an Environmental Impact Statement is not required". Barrick proposes to recover magnetite as a by-product from Cu-Au ore mined at Osborne.

2012: All major refurbishment work at Osborne processing facility completed in DEC11. Underground development at Osborne & Kulthor is on schedule for Q1 2012. Sufficient ore is stockpiled (Feb 2012) to sustain mill throughput on production commencement. Chinova Resources Limited took over the operation of the mine. The mine is expected to cease operations in about August 2015,

depleting all measured resources by then. The processing of ore from Starra 276 was finalised in August 2014.

Web Page

www.chinovaresources.com/

A Summary of Major Mineral Resources, Mines and Projects, 2016

490997 PAJINGO - VERA-NANCY

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 72 KM SOUTH OF CHARTERS TOWERS, 38.6KM NE OF PAJINGO HOMESTEAD

1:100 000 sheet Number and Name: 8156 PAJINGO

Grid Reference: Zone 55 444065 mE 7727770 mN Latitude -20.5480 Longitude 146.4634 Date Recorded: 31/January/2017

Other Names for Deposit / Mine

Vera-Nancy

Vera

Nancy

Vera North

Nancy North

Vera South

Venue

Anne

_ .

Zed

Jandam

Moonstar Sonia

Bunty

Durity

Bell Vein

Pajingo Gold Mine - Vera-Nancy

Anne West

Jandam East

CommoditiesSizeSize DefinitionGOLDMEDIUM5 - 50 tonnes AU

SILVER SMALL 5 - 500 tonnes AG

Production Details

Period: 1-Jul-1996 to 30-Jun-2016

GOLD FINE 75,125.0 kilograms SILVER 69,964.3 kilograms

Published Reserves/Resources

BR 10462 Published in 2016

PAJINGO - OPEN PIT

INDICATED MINERAL RESOURCE 60,000 tonnes Ore @

4.34 g/t GOLD FOR 260 Kilograms GOLD

Comments/Cut Off Factor: 0.75 g/t open pit

Incorporates Vera North Upper and Venue orebodies.

BR 10462 Published in 2016

PAJINGO - OPEN PIT

INFERRED MINERAL RESOURCE 90,000 tonnes Ore @

2.30 g/t GOLD FOR 207 Kilograms GOLD

Comments/Cut Off Factor: 0.75 g/t open pit

Incorporates Vera North Upper and Venue orebodies.

BR 10462 Published in 2016

PAJINGO - UNDERGROUND

INDICATED MINERAL RESOURCE 630,000 tonnes Ore @ 7.91 g/t GOLD FOR 4,983 Kilograms GOLD

Comments/Cut Off Factor: 2.5g/t for UG reserves

Resource fig incorporates the Faith, Jandam, Sonia, Veracity, Zed East and Zed West orebodies. It excludes

the Cindy orebody (subtracted from quoted fig) Includes probable reserves 0.39Mt @ 5.60g/t Au

BR 10462 Published in 2016

PAJINGO - UNDERGROUND

INFERRED MINERAL RESOURCE 1,670,000 tonnes Ore @

6.82 g/t GOLD **FOR** 11,389 Kilograms GOLD

Comments/Cut Off Factor: 2.5 g/t for UG reserves

Resource fig incorporates the Faith, Jandam, Sonia, Veracity, Zed East and Zed West orebodies. It excludes

the Cindy orebody (subtracted from quoted fig).

BR 10462 Published in 2016

PAJINGO - UNDERGROUND

MEASURED MINERAL RESOURCE 90,000 tonnes Ore @

11.54 g/t GOLD FOR 1,038 Kilograms GOLD

Comments/Cut Off Factor: 2.5g/t for UG reserves

Resource fig incorporates the Faith, Sonia and Zed West orebodies; Includes proved reserves 0.17 Mt @

6.82g/t Au

Resource figures listed above are JORC compliant.

Published Reference ID Year Author Title Source

BR 10462 2016 EVOLUTION MINING ASX ANNOUNCEMENT: REPORT TO THE AUSTRALIAN

LIMITED ANNUAL MINERAL SECURITIES EXCHANGE. 21

RESOURCES AND ORE APRIL 2016. EVOLUTION
RESERVES STATEMENT MINING LIMITED, MELBOURNE.

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Major Mining	Related Ever	nts	~ ·		
Year Commer 1995	nced Year to	Completed 1996	Comments Vera North and Nancy orebodies discovered in 19 Cindy pit to Nancy and then along strike to Vera open cut connected to first. Discovery cost \$21.50	North in 1996. Second decline from Vera	
Operating :	Mine Life: 19	995 to 2008 Min	ing commenced in 1995. As at June 2004, anticip	pated mine life was until 2008.	
1997	to	1997	Plant refurbished and recommissioned. Production formed as management company for Pajingo ope	, , e ,	
1998	to	1998	Discovery of Vera South orebody.		
1999	to	2001	Major expansion of mill from 216 000tpa to 582	000tpa.	
2002			Following takeover of Normandy Mining Ltd, pro Mining Corporation. Mill throughput improved to		
2010			Conquest takeover of North Queensland Metals is Evolution Mining in 2011	n Oct 2010. Conquest assets incorporated in	
Mining Operati	ions		Comments		
OPEN CUT	Γ MINING				
STOPING	STOPING		Bench mining has been used exclusively to develop to the bottom of the orebodies. Mining up has used the decline access.		
UNDERGR	ROUND MIN	ING METHODS	Declines from Cindy and Vera open cuts and from Vera South.		
Tenure Type/Nu	umber	SHARE	Company Name/Surname		
ML 1:	575	40.00%	NQM GOLD 2 PTY LTD		
ML 1:	575	60.00%	CQT GOLD AUSTRALIA PTY LTD		
ML 10	0215	60.00%	NQM GOLD 2 PTY LTD		
ML 10	0215	40.00%	CQT GOLD AUSTRALIA PTY LTD		
ML 10	0246	60.00%	NQM GOLD 2 PTY LTD		
ML 10	0246	40.00%	CQT GOLD AUSTRALIA PTY LTD		
Host Rock/Cov Structural U DRUMMO	Unit -	s	Formation Name/Age Vera-Nancy Volcanics / LAT	E DEVONIAN to EARLY CARBONIFEROUS	
Deposit Model					
•	OREBODY	MODEL.	EPITHERMAL VEINS/PIPE/STOCK	WORK	
	GENERAL OREBODY MODEL DETAILED OREBODY MODEL		EPITHERMAL PRECIOUS METAL	LOW SULPHIDATION EPITHERMAL	
Mineralisation Age ORE CARBON		CARBON	NIFEROUS	K-Ar dating of alteration sericite from the nearby Scott Lode gave 342+/-5Ma (BR 6100), slightly younger than the host rocks.	

A Summary of Major Mineral Resources, Mines and Projects, 2016

Comments

Exploration has defined extensions to the mineralisation at Anne, Zed, Sonia, Bunty and Moonstar.

The regional geology of the Pajingo area is poorly understood due to limited work and extensive cover. Vera-Nancy is hosted by a major structure striking south-east and dipping steeply to the south-west.

Fine gold and electrum occur in quartz and chalcedony veins enclosed by a halo of silicification and brecciation that is commonly strongly pyritic.

The Vera-Nancy structure hosts a number of orebodies. Mining has been carried out on the Nancy North, Nancy, Vera North, Venue, Vera. Vera South and Jandam orebodies.

The mine switched from contractor mining to owner mining in the December 2008 quarter.

North Queensland Metals Limited (60%) and Heemskirk Consolidated (40%) executed a Sale Purchase Agreement for the Pajingo Gold Mine and took control of the mine from 30 December 2007. Underground mining recommenced on 7 January 2008.

The first gold pour of 119kg of dore (~50% Au/50% Ag) was completed under the new operators at the end of January 2008. Upgraded resource figures were announced in March 2008, based on the Zed, Sonia and Bunty orebodies and the Bell Vein.

In the second quarter of July 2009, gold production was constrained by increased dilution on the current sequence of underground stopes. This is being addressed by the introduction of more appropriate equipment and revised mining methods.

Oxide ore from NQM's Dotswood mine was introduced in the second quarter of 2009 to test the ability of the processing plant to handle higher throughput. Up to 200,000tpa could be brought in from new sources while maintaining annual throubput of >500,000t.

Sept 2010 Conquest Mining Ltd announced acquiring 40% interest in the Pajingo JV from Heemskirk Cons Ltd. (NQM, a subsidary of Conquest holds 60% and manages the Pajingo operations)

Sept 2010 exploration on underground drilling on "Faith" and "Zed" orebodies continues to deliver impressive results: Average width and grade of Faith development channel samples to date is 2.3m @ 16.8g/t Au (BR9609).

Sept 2010: Start of open pit work delayed by environmental licence approval but is now ready to commence in mid-October. The pit is designed to extract a Probable Reserve of 118000t @ 2.75g/t for 10400oz Au (BR9609).

Drilling in 2010 confirmed the eastern extension of the current mining area at Jandam along strike. Potential also exists for the development of a new orebody below and to the west of the mined out Anne orebody.

Evolution sold Pajingo in August 2016 to Minjar Gold Pty Limited, including the surrounding tenements.

Web Page

www.nqm.com.au (old); www.evolutionmining.com.au (old) http://www.minjargold.com.au/

A Summary of Major Mineral Resources, Mines and Projects, 2016

588115 PHOENIX

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: ~3KM W OF CRACOW, ~175KM SE OF GLADSTONE.

1:100 000 sheet Number and Name: 8947 CRACOW

Grid Reference: Zone 56 224580 mE 7200400 mN Latitude -25.2875 Longitude 150.2649 Date Recorded: 15/December/2015

Other Names for Deposit / Mine

Cracow Gold Mine Group

Commodities Size Size Definition

GOLD SMALL 0.5 - 5 tonnes AU

Production Details

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID Year Author Title Source

BR 10019 2012 EVOLUTION MINING EVOLUTION MINING MINERAL REPORT TO THE AUSTRALIAN

LIMITED RESOURCE STATEMENT - JUNE SECURITIES EXCHANGE. 25
2012 SEPTEMBER 2012. EVOLUTION

MINING LIMITED, MELBOURNE.

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations Comments

UNDERGROUND MINING METHODS

Tenure Type/Number SHARE Company Name/Surname

Currently untenured mineral deposit

Host Rock/Cover Sequences
Structural Unit Formation Name/Age

AUBURN SUBPROVINCE Camboon Volcanics / LATE CARBONIFEROUS to EARLY PERMIAN

Deposit Model

Mineralisation Age

ORE EARLY PERMIAN

Comments

A Summary of Major Mineral Resources, Mines and Projects, 2016

493683 PHOSPHATE HILL

OPERATING MINE

Descriptive Location: 51KM ESE OF DAJARRA, 138 KM SSE OF MOUNT ISA.

1:100 000 sheet Number and Name: 6854 DAJARRA

Grid Reference: Zone 54 392720 mE 7578666 mN Latitude -21.8928 Longitude 139.9615 Date Recorded: 9/February/2017

Other Names for Deposit / Mine

Duchess

 Commodities
 Size
 Size Definition

 PHOSPHATE ROCK (PHOSPHORITE)
 MEDIUM
 200 000 - 200 000 000 tonnes PHR

 GYPSUM
 SMALL
 5 000 - 5 000 000 tonnes GYP

Production Details

 Period:
 1-Jan-1975
 to
 31-Dec-1978

 PHOSPHATE ROCK (PHOSPHORITE)
 1,100,000.0 tonnes

 Period:
 1-Jul-1981
 to
 30-Jun-1982

 PHOSPHATE ROCK (PHOSPHORITE)
 200,000.0 tonnes

 Period:
 1-Jul-2000
 to
 30-Jun-2016

 PHOSPHATE ROCK (PHOSPHORITE)
 27,040,073.7 tonnes

Published Reserves/Resources

BR 7966 Published in 2006

PHOSPHATE HILL OPEN CUT

INDICATED MINERAL RESOURCE 26,000,000 tonnes Ore @ 23.00 % PHOSPHATE FOR 5,980,000 Tonnes PHOSPHATE

BR 7966 Published in 2006

PHOSPHATE HILL OPEN CUT

INFERRED MINERAL RESOURCE 40,000,000 tonnes Ore @ 20.10 % PHOSPHATE FOR 8,040,000 Tonnes PHOSPHATE

BR 7966 Published in 2006

PHOSPHATE HILL OPEN CUT

MEASURED MINERAL RESOURCE 61,000,000 tonnes Ore @ 25.40 % PHOSPHATE FOR 15,494,000 Tonnes PHOSPHATE

Proved and probable reserves are 82Mt at 24.4% P2O5.

BR 7966 Published in 2006

PHOSPHATE HILL STOCKPILE

MEASURED MINERAL RESOURCE 600,000 tonnes Ore @ 22.30 % PHOSPHATE FOR 133,800 Tonnes PHOSPHATE

Resource figures listed above are JORC compliant.

Published Reference BR 7966			Author BHP BII	LLITON PLC	Title BHP BILLITON PLC, ANNUAL REPORT 2006.	Source BHP BILLITON PLC, MELBOURNE.
Major Mining Relat	ted Events	;				
Year Commenced	Year Co	ompl	eted	Comments		
1966 t	to	196	6	Phosphate deposits disco	vered by Broken Hill South and mined uns	successfully.
1975 t	to	1978	8	First phase of phosphate	mining by Queensland Phosphate Ltd (a W	VMC Ltd subsidiary).
1980 t	to	1983	3		sits through its acquisition of Broken Hill sidue to economic reasons.	South. Mining resumed in
1996 t	to	1998	8		td changed its name to WMC Fertilizers ar er project at Phosphate Hill. Construction of	
1999 t	to	2000	6	First di-ammonium fertil upon its acquisition of W	iser produced in December 1999. Ownersh MC.	ip passed to BHP Billiton
2006				Incitec Pivot purchased S BHP Billiton in August 2	Southern Cross Fertilizers (and the Phosph 2006.	ate Hill operation) from

Mining Operations Comments

OPEN CUT MINING

A Summary of Major Mineral Resources, Mines and Projects, 2016

Tenure Type/NumberSHARECompany Name/SurnameML5543100.00%SOUTHERN CROSS FERTILISERS PTY LTDML5551100.00%SOUTHERN CROSS FERTILISERS PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

GEORGINA BASIN Monastery Creek Phosphorite Member / MIDDLE CAMBRIAN to

MIDDLE CAMBRIAN

Deposit Model

GENERAL OREBODY MODEL SEDIMENT-HOSTED DEPOSIT
DETAILED OREBODY MODEL UPWELLING TYPE PHOSPHATE

Mineralisation Age

ORE MIDDLE CAMBRIAN Phosphorite lithologies are mainly detrital in

character; consisting of sand-sized, peloidal and bioclastic, carbonate fluorapatite (francolite) framework grains within a siliceous or calcareous matrix, to form phosphatic grainstone or packstone.

Comments

Phosphatic marine sediment occurs in the Middle Cambrian and Middle Ordovician rocks of the Georgina Basin. The Middle Cambrian rocks host significant resources of phosphate rock, including that at Phosphate Hill.

Phosphate rock is mined and combined with sulphuric acid (supplied from Mount Isa) to produce phosphoric acid (with gypsum as a byproduct). Ammonia (produced from natural gas) is added to the phosphoric acid to form ammonium phosphate fertilisers.

Phosphate Hill is run by Southern Cross Fertilizers Pty Ltd, which was initially owned by WMC. Ownership passed to BHP Billiton when it acquired WMC. Incitec Pivot purchased Southern Cross Fertilizers in August 2006.

2012 (Souther Cross Fertilizers website) At this location there are two billion tonnes of phosphate rock including mining reserves of 103 million tonnes with an average grade of more than 23 per cent P2O5. Some 2.2 million tonnes rock is mined per year.

Web Page

www.pivot.com.au; www.chemicals-technology.com/projects/phosphatehill/; www.chemlink.com.au/phosphat.htm

A Summary of Major Mineral Resources, Mines and Projects, 2016

493647 PORT ALMA

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: PORT ALMA, 9 KM NORTH-EAST OF BAJOOL, 60KM NW OF GLADSTONE.

1:100 000 sheet Number and Name: 9050 BAJOOL

Grid Reference: Zone 56 267756 mE 7386990 mN Latitude -23.6109 Longitude 150.7238 Date Recorded: 8/February/2017

Other Names for Deposit / Mine

Abc

Cheetham Salt Port Alma

Cheetham Salt

Commodities Size Size Definition

BRINE SALT

Production Details

Period: 1-Jul-1997 to 30-Jun-2016

BRINE SALT 2,836,866.0 tonnes

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations Comments

SURFACE MINING METHODS

Tenure Typ	e/Number	SHARE	Company Name/Surname
ML	5783	100.00%	CHEETHAM SALT LIMITED
ML	5784	100.00%	CHEETHAM SALT LIMITED
ML	5787	100.00%	CHEETHAM SALT LIMITED
ML	5790	100.00%	CHEETHAM SALT LIMITED
ML	5796	100.00%	CHEETHAM SALT LIMITED
ML	5798	100 00%	CHEETHAM SALT LIMITED

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

Deposit Model

Mineralisation Age

Comments

Sea water is pumped into ponds and gravity fed through evaporation pads to concentrate salt. Saline borewater is used sparingly to adjust the salinity. Salt produced for ICI is shipped to Botany Bay in NSW for the manufacture of caustic soda and chlorine.

Cheetham Salt holds all the mining leases in the Port Alma area for salt production and operates an extensive series of evaporative salt ponds covering approximately 100 square kilometres.

Salt is also suppied to Orica Australia Pty Ltd in Gladstone for the production of chlorine.

Web Page

http://www.cheethamsalt.com.au

A Summary of Major Mineral Resources, Mines and Projects, 2016

493995 QUEENSLAND BENTONITE

OPERATING MINE

Descriptive Location: 36KM NW OF MILES AND 6KM WEST OF GURULMUNDI, 320 KM WEST OF BRISBANE.

1:100 000 sheet Number and Name: 8845 WANDOAN

Grid Reference: Zone 55 798945 mE 7075964 mN Latitude -26.4051 Longitude 149.9966 Date Recorded: 15/December/2015

Other Names for Deposit / Mine

Imto401

Commodities Size Size Definition

BENTONITE MEDIUM 200 000 - 20 000 000 tonnes BENT

Production Details

Period: 1-Jul-1996 to 30-Jun-2015

BENTONITE 192,729.4 tonnes

Published Reserves/Resources

PROBABLE ORE RESERVE

10,000,000 Tonnes BENTONITE

Comments/Cut Off Factor: Estimate only. D Carmichael, personal comment, 2000.

Pers Comm D. Carmichael, 2000

PROVED ORE RESERVE

2,000,000 Tonnes BENTONITE

Comments/Cut Off Factor: Estimate only. D Carmichael, personal comment, 2000.

Pers Comm D. Carmichael, 2000.

Resource figures listed above are NOT JORC compliant.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations Comments

OPEN CUT MINING

 Tenure Type/Number
 SHARE
 Company Name/Surname

 ML
 5909
 100.00%
 SIBELCO AUSTRALIA LIMITED

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

SURAT BASIN Orallo Formation / EARLY CRETACEOUS to EARLY CRETACEOUS

Deposit Model

GENERAL OREBODY MODEL SEDIMENT-HOSTED DEPOSIT
DETAILED OREBODY MODEL SEDIMENTARY CLAY DEPOSITS

Mineralisation Age

ORE JURASSIC

Comments

Sodium bentonite is sold into a broad range of domestic and international markets that include exploration drilling, construction/civil, foundry, cat litter, stock feed, dam sealing, wine clarification plus other niche markets.

(2012) Amcol Australia Pty Ltd operates the Queensland Bentonite mine, which produces a high swelling sodium bentonite through its 80 000tpa processing plant.

Web Page

http://www.amcolminerals.com.au/

A Summary of Major Mineral Resources, Mines and Projects, 2016

507795 RIVER OF GOLD

OPERATING MINE

ADJACENT TO PENINSULA DEVELOPMENT ROAD NEAR REEDY SAINT GEORGE 2ND CROSSING, S OF MAITLAND DC Descriptive Location:

1:100 000 sheet Number and Name: 7865 SOUTH PALMER RIVER

Grid Reference: Zone 55 255062 mE 8193053 mN Latitude -16.3311 Longitude 144.7074 Date Recorded: 13/February/2017

Other Names for Deposit / Mine

River Of Gold Slate Mines

Commodities **Size Definition** Size

VERY SMALL BUILDING STONE <100 000 tonnes BLST **SLATE** VERY SMALL <10 000 tonnes ST SANDSTONE VERY SMALL <10 000 tonnes SST

Production Details

Period: 1-Jul-1996 30-Jun-2016

SLATE 1,036.8 tonnes SANDSTONE 1,690.5 tonnes

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Source Title Published Reference ID Year Author

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations Comments

OPEN CUT MINING

Company Name/Surname Tenure Type/Number SHARE **Christian Name** Victoria Marie

20295 100.00% MLLAKE

Host Rock/Cover Sequences Formation Name/Age Structural Unit

HODGKINSON PROVINCE Hodgkinson Formation/am / EARLY DEVONIAN to LATE DEVONIAN

Deposit Model

GENERAL OREBODY MODEL SEDIMENT-HOSTED DEPOSIT

Mineralisation Age

ORE

Comments

A Summary of Major Mineral Resources, Mines and Projects, 2016

36003 RIVERTON

OPERATING MINE

Descriptive Location: 19.3KM E OF BONSHAW, 220KM SW OF BRISBANE.

1:100 000 sheet Number and Name: 9139 ASHFORD

Grid Reference: Zone 56 351305 mE 6788576 mN Latitude -29.0223 Longitude 151.4731 Date Recorded: 15/December/2015

Other Names for Deposit / Mine

Riverton Quarry

CommoditiesSizeSize DefinitionLIMESTONELARGE>10 000 000 tonnes LST

Production Details

Period: 1-Jul-1982 to 30-Jun-1988

LIMESTONE CRUSHED ROCK 206,377.0 tonnes

Period: 1-Jul-1998 to 30-Jun-1999

LIMESTONE CRUSHED ROCK 84,227.0 tonnes
LIMESTONE AGGREGATE / 426.0 tonnes

DECORATIVE AGGREGATE

Period: 1-Jul-2000 to 30-Jun-2015

LIMESTONE CRUSHED ROCK 1,251,108.0 tonnes

Period: 2-Jul-2000 to 30-Jun-2007

MARBLE

Period: 1-Jul-2004 to 30-Jun-2007

AGGREGATE 66,566.0 tonnes

Published Reserves/Resources

Company Report 7065 Published in 1979

INDICATED MINERAL RESOURCE

407.0 tonnes

400,000,000 Tonnes LIMESTONE

Comments/Cut Off Factor: To 80m depth to 80m depth.

Resource figures listed above are NOT JORC compliant.

Published Reference	e II	Year Year	Author	Title	Source		
Major Mining Rel	Major Mining Related Events						
Year Commenced	l to	Year Compl		Comments Mining during this period produced limestone f	huy garicultural limectone and other limectone		
1982	ιο	190	0	products.	nux, agricultural filliestone and other filliestone		
1997	to	200	1	Quarried by Australian Limestone Pty Ltd			
2001	to	200	2	Quarried by David Mitchell (NSW) Pty Ltd			
2002				Quarried by Unimin Lime (NSW) Pty Ltd			

Mining Operations	Comments
mining operations	Comments

OPEN CUT MINING

Tenure Type	/Number	SHARE	Company Name/Surname
ML	50142	100.00%	SIBELCO LIME (NSW) PTY LTD
ML	50220	100 00%	SIBELCO LIME (NSW) PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

TEXAS SUBPROVINCE Texas beds / EARLY CARBONIFEROUS to EARLY CARBONIFEROUS

Deposit Model

GENERAL OREBODY MODEL SEDIMENT-HOSTED DEPOSIT

DETAILED OREBODY MODEL LIMESTONE DEPOSIT

Mineralisation Age

ORE DEVONIAN to CARBONIFEROUS

Comments

Three connected outcrops form this deposit. The limestone is light to dark grey in colour. Bulk surface samples gave average assays of 55.7% CaO, 0.2% MgO, 0.17% SiO2, 0.01% Al2O3 and 0.01% Fe2O3.

Operated by Unimin Lime (NSW) Pty Ltd. In 2011 Unimin Australia and New Zealand adopted parent company name 'Sibelco'.

Web Page

http://www.sibelco.com.au

A Summary of Major Mineral Resources, Mines and Projects, 2016

532007 ROBIN

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 29.5KM EAST-NORTH-EAST OF MOUNT ISA

1:100 000 sheet Number and Name: 6856 MARY KATHLEEN

Grid Reference: Zone 54 372045 mE 7712328 mN Latitude -20.6840 Longitude 139.7715 Date Recorded: 10/February/2017

Other Names for Deposit / Mine

Robin Mine & The Big One

Commodities Size Size Definition

LIMESTONE SMALL 100 000 - 2 000 000 tonnes LST

Production Details

Period: 1-Jan-1967 to 31-Dec-1976

LIMESTONE OTHER 531,986.0 tonnes

Period: 1-Jul-2015 to 30-Jun-2016

ROAD PAVEMENT GRAVEL 1,910.0 tonnes

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations Comments

OPEN CUT MINING Haul road down to tunnels, water in bottom of opencut

UNDERGROUND MINING METHODS tunnels in bottom of opencut

Tenure Type/Number SHARE Company Name/Surname

ML 90042 100.00% LAWLOR CONTRACTING PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

KALKADOON-LEICHHARDT DOMAIN Corella Formation / PALAEOPROTEROZOIC to

PALAEOPROTEROZOIC

Deposit Model

GENERAL OREBODY MODEL HYDROTHERMAL VEINS/PIPE/STOCKWORK

DETAILED OREBODY MODEL VEIN CALCITE +/- CU

Mineralisation Age

ORE MESOPROTEROZOIC

Comments

The mined lens/pod was ~60m long by 50m wide. The mine was operating in 2002, but not for the production of limestone. Crushed rock (quartzite) was being quarried.

The limestone is granular and compact and forms a roughly cylindrical mass that has vertical walls and is slightly bulbous at depth (BR 6358).

A Summary of Major Mineral Resources, Mines and Projects, 2016

485899 ROCHDALE BRICKWORKS

OPERATING MINE

Descriptive Location: ADJACENT TO GATEWAY MOTORWAY, ROCHDALE, BRISBANE CITY.

1:100 000 sheet Number and Name: 9542 BEENLEIGH

Grid Reference: Zone 56 511238 mE 6951727 mN Latitude -27.5581 Longitude 153.1138 Date Recorded: 14/February/2017

Other Names for Deposit / Mine

Prebble

Red Stone

Bulimba Brickworks

The Austral Brick Company

Commodities Size Definition

BRICK CLAY MEDIUM 200 000 - 20 000 000 tonnes BKCY

Production Details

Period: 1-Jul-1996 to 30-Jun-2016

BRICK CLAY 5,410,877.3 tonnes

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations Comments

OPEN CUT MINING

Tenure Type	/Number	SHARE	Company Name/Surname
ML	1151	100.00%	THE AUSTRAL BRICK CO. PTY LTD
ML	1152	100.00%	THE AUSTRAL BRICK CO. PTY LTD
ML	1156	100.00%	THE AUSTRAL BRICK CO. PTY LTD
ML	1165	100.00%	THE AUSTRAL BRICK CO. PTY LTD
ML	50165	100.00%	THE AUSTRAL BRICK CO. PTY LTD
ML.	50189	100 00%	THE AUSTRAL BRICK CO. PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

IPSWICH BASIN Tingalpa Formation / LATE TRIASSIC to LATE TRIASSIC

Deposit Model

GENERAL OREBODY MODEL SEDIMENT-HOSTED DEPOSIT

DETAILED OREBODY MODEL SEDIMENTARY CLAY DEPOSITS

Mineralisation Age

ORE TRIASSIC

Comments

In 1958, Austral Brick Company Pty Ltd purchased and upgraded the Rochedale Brickworks, installing high capacity kilns in 1968, 1970 and 1972 as part of Rochedale's progressive upgrading, culminating in a \$16 million investment in 1984.

The new facilities gave the plant a capacity of 75 million bricks a year. In 1993 an additional \$20 million was invested, doubling its capacity and upgrading the plant to incorporate specialised paver production facilities.

Web Page

http://www.australbrick.com.au

A Summary of Major Mineral Resources, Mines and Projects, 2016

504499 ROSES PRIDE

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 4.89KM NW OF CRACOW, 173.49KM SE OF GLADSTONE.

1:100 000 sheet Number and Name: 8947 CRACOW

Grid Reference: Zone 56 224305 mE 7202676 mN Latitude -25.2669 Longitude 150.2626 Date Recorded: 8/December/2015

Other Names for Deposit / Mine

Rose Pride Rose'S Pride

CommoditiesSizeSize DefinitionGOLDSMALL0.5 - 5 tonnes AUSILVERVERY SMALL<5 tonnes AG</td>

Production Details

Period: 1-Jul-2013 to 30-Jun-2015

GOLD METAL 1,753.5 kilograms SILVER 808.7 kilograms

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID Year Author Title Source

BR 10019 2012 EVOLUTION MINING EVOLUTION MINING MINERAL REPORT TO THE AUSTRALIAN

LIMITED RESOURCE STATEMENT - JUNE SECURITIES EXCHANGE. 25
2012 SEPTEMBER 2012. EVOLUTION
MINING LIMITED, MELBOURNE.

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations Comments

SHAFTS

PITS

TRENCHES

UNDERGROUND MINING METHODS Two levels at 15.5m and 39.5m. Ore won by stoping between

levels and later on through to surface

Tenure Type/Number SHARE Company Name/Surname
ML 3229 100.00% LION MINING PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

AUBURN SUBPROVINCE Camboon Volcanics? / LATE CARBONIFEROUS to EARLY PERMIAN

Deposit Model

GENERAL OREBODY MODEL BRECCIA-HOSTED

GENERAL OREBODY MODEL EPITHERMAL VEINS/PIPE/STOCKWORK

GENERAL OREBODY MODEL REPLACEMENT DEPOSIT

Mineralisation Age

ORE

Comments

Development of decline, operated by Evolution in 2012

Web Page

www.evolution mining.com.au

A Summary of Major Mineral Resources, Mines and Projects, 2016

610268 S&S MINING

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: ADJACENT TO MOTOR WAY AT DARRA, IPSWICH

1:100 000 sheet Number and Name: 9442 IPSWICH

Grid Reference: Zone 56 494135 mE 6946395 mN Latitude -27.6064 Longitude 152.9406 Date Recorded: 10/February/2017

Other Names for Deposit / Mine

CommoditiesSizeSize DefinitionSANDSTONEVERY SMALL<10 000 tonnes SST</td>

Production Details

Period: 1-Jul-2014 to 30-Jun-2016

SANDSTONE 330.0 tonnes

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations

Tenure Type/NumberSHARECompany Name/SurnameChristian NameML50278100.00%LAZAREVICSpasa

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

Deposit Model

Mineralisation Age

ORE

Comments

512586 SARSFIELD

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 0.9 KM ESE OF RAVENSWOOD. 1:100 000 sheet Number and Name: 8257 RAVENSWOOD

Grid Reference: Zone 55 489329 mE 7776932 mN Latitude -20.1046 Longitude 146.8979 Date Recorded: 10/February/2016

Other Names for Deposit / Mine

Sarsfield Extended

Oca

Syc

Area 4

Area 5

Prince Of Wales Reef

Who'D A Thought It

Louisa Reef

Minnie Reef

Nelson Reef

Leader Reef

Ajax Reef

Argua Reef

Buck Reef

Big Reef

Sarsfield (Historical)

Satisfaction

SILVER

GOLD

GOLD

Period:

Sarsfield And Streak

Commoditie	s				Size	Size Definition	
GOLD					MEDIUM	5 - 50 tonnes AU	
Production I	Details						
Period:	1-Jan-1900	to	31-Dec-1909		536 tonnes KNOWN HIS	TORIC PRODUCTION	
GOLD)			BULLION	19.4 kilograms		
Period:	1-Jul-1996	to	30-Jun-2012				
GOLD)			FINE	52,921.3 kilograms		

14,314.3 kilograms

164.0 kilograms

1,623.9 kilograms

Period: 1-Jul-2001 to

1-Jul-2000

Published Reserves/ResourcesBR 10444 Published in 2015

SARSFIELD - IN SITU

INDICATED MINERAL RESOURCE 20,384,000 tonnes Ore @

0.70 g/t GOLD FOR 14,268 Kilograms GOLD

Comments/Cut Off Factor: 0.4 g/t Au cut-off

30-Jun-2001

30-Jun-2002

BULLION

BULLION

BR 10444 Published in 2015

SARSFIELD - IN SITU

 $\it INFERRED MINERAL RESOURCE~22,192,000 tonnes Ore @$

0.70 g/t GOLD **FOR** 15,534 Kilograms GOLD

 $Comments/Cut\ Off\ Factor{:}\quad 0.4\ g/t\ Au\ cut-off$

BR 10444 Published in 2015

SARSFIELD - IN SITU

 $\it MEASURED MINERAL RESOURCE 16,185,000 tonnes Ore @$

0.80~g/t~GOLD **FOR** 12,948 Kilograms GOLD

Comments/Cut Off Factor: 0.4 g/t Au cut-off

BR 10444 Published in 2015

SARSFIELD - IN SITU

PROBABLE ORE RESERVE 18,640,000 tonnes Ore @

0.70 g/t GOLD **FOR** 13,048 Kilograms GOLD

 $Comments/Cut\ Off\ Factor:\ \ 0.4\ g/t\ Au\ cut-off$

Reported as exclusive from resources

BR 10444 Published in 2015

SARSFIELD - IN SITU

PROVED ORE RESERVE 28,450,000 tonnes Ore @

0.80 g/t GOLD FOR 22,760 Kilograms GOLD

Comments/Cut Off Factor: 0.4 g/t Au cut-off

Includes stockpiles from both Mount Wright and Sarsfield. Reported as exclusive in resources

Resource figures listed above are JORC compliant.

A Summary of Major Mineral Resources, Mines and Projects, 2016

Published Reference ID

Year Author
2015 RESOLUTE MINING
LIMITED

A PROVEN GOLD PRODUCER > ANNUAL REPORT 2015

Source RESOLUTE MINING LIMITED,

PERTH. HTTP://HTTP://WWW.RML.COM.

AU/

Major Mining Related Events

Year Commenced Year Completed

Comments

1996 Di

Discovered by Carpentaria Gold adjacent to Nolans-Sarsfield mining operations.

Operating Mine Life: 2000 to 2010 Deposit acquired by Resolute in 2004 from Xstrata. Current mine plan has a 3 to 4 year mine life as at Jan 2006.

The Nolan's Mining joint venture concluded in 2001.

2002 Sarsfield crushing and beneficiation plant and processing plant expansion was completed in

August 2002, with commissioning work continuing.

Mining Op	erations		Comments
OPEN	CUT MINING		Opencut was developed as a pushback of the western wall of the Nolans-Sarfield pit.
Tenure Typ	oe/Number	SHARE	Company Name/Surname
ML	1337	100.00%	CARPENTARIA GOLD PTY. LTD.
ML	1379	100.00%	CARPENTARIA GOLD PTY. LTD.
ML	1380	100.00%	CARPENTARIA GOLD PTY. LTD.
ML	1394	100.00%	CARPENTARIA GOLD PTY. LTD.
ML	1417	100.00%	CARPENTARIA GOLD PTY. LTD.
ML	1418	100.00%	CARPENTARIA GOLD PTY. LTD.
ML	1574	100.00%	CARPENTARIA GOLD PTY. LTD.
ML	1682	100.00%	CARPENTARIA GOLD PTY, LTD.
	/Cover Sequences		T V (1
	ral Unit	TI LETYON I	Formation Name/Age
PAMA	IGNEOUS ASSOC	CIATION	Jessop Creek Granite / SILURIAN to DEVONIAN

GENERAL OREBODY MODEL MESOTHERMAL VEINS/PIPE/STOCKWORK

DETAILED OREBODY MODEL MESOTHERMAL VEINS, MAGMATIC-RELATED

Mineralisation Age

ORE CARBONIFEROUS

Comments

The mineralisation is similar to the adjacent Nolan's deposit. Rock alteration and vein filling consists of multiple overprinting phases hosted by the Jessop Creek Tonalite.

Mining in the Sarsfield open cut completed by the end of Febuary 2009. Mill feed is being sourced from low-grade stockpiles and treated with Mount Wright ore until stockpiles are depleted.

Resolute Mining Ltd is undertaking a feasibility study into reopening the Sarsfield mine, based on an expansion of the open pit to extract newly defined resources based on a lower cut-off grade.

Web Page

http://www.resolute-ltd.com.au/

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38268 SKARDON RIVER

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 83KM NORTH OF WEIPA, 630KM NW OF CAIRNS.

1:100 000 sheet Number and Name: 7274 MAPOON

Grid Reference: Zone 54 607421 mE 8686664 mN Latitude -11.8787 Longitude 141.9863 Date Recorded: 7/January/2016

Other Names for Deposit / Mine

 Commodities
 Size
 Size Definition

 KAOLIN / KAOLINITE
 MEDIUM
 200 000 - 20 000 000 tonnes KAO

 BAUXITE
 SMALL
 100 000 - 100 000 000 tonnes BX

Production Details

Period: 1-Jul-1998 to 30-Jun-1999

KAOLIN / KAOLINITE 150.0 tonnes

Period: 1-Jul-2002 to 30-Jun-2008

KAOLIN / KAOLINITE 5,616.0 tonnes

Published Reserves/Resources

BR 10169 Published in 2013 SKARDON RIVER BAUXITE

INDICATED MINERAL RESOURCE 32,100,000 tonnes Ore @

32,100,000 Tonnes BAUXITE

Comments/Cut Off Factor: 17%SiO2 cut-off

BR 10169 Published in 2013 SKARDON RIVER BAUXITE

INFERRED MINERAL RESOURCE 8,100,000 tonnes Ore @

8,100,000 Tonnes BAUXITE

Comments/Cut Off Factor: 17%SiO2 cut-off

BR 10169 Published in 2013 SKARDON RIVER BAUXITE

MEASURED MINERAL RESOURCE 29,900,000 tonnes Ore @

29,900,000 Tonnes BAUXITE

Comments/Cut Off Factor: 17%SiO2 cut-off

BR 9219 Published in 2009 SKARDON RIVER KAOLIN

INDICATED MINERAL RESOURCE 900,000 tonnes Ore @

78.00 % KAOLIN / KAOLINITE FOR 702,000 Tonnes KAOLIN / KAOLINITE

Comments/Cut Off Factor: Additional to reserves. 78% <45 micron in situ grade. Recovered grade not yet determined.

78% <45 micron in situ grade. Recovered grade not yet defined.

BR 9219 Published in 2009 SKARDON RIVER KAOLIN

INFERRED MINERAL RESOURCE 10,400,000 tonnes Ore @

65.00 % KAOLIN / KAOLINITE FOR 6,760,000 Tonnes KAOLIN / KAOLINITE

Comments/Cut Off Factor: Additional to reserves. >65% <45 micron in situ grade. Recivered grade not yet determined.

>65% <45 micron in situ grade. Recovered grade not yet defined.

BR 9219 Published in 2009 SKARDON RIVER KAOLIN

PROBABLE ORE RESERVE 2,100,000 tonnes Ore @

63.00 % KAOLIN / KAOLINITE FOR 1,323,000 Tonnes KAOLIN / KAOLINITE

Comments/Cut Off Factor: Reserve to 25m depth. 92% <45 micron in situ grade. 63% recovered grade. Reserve to 25m depth. 92% <45 micron in situ grade. 63% recovered grade.

BR 9219 Published in 2009

SKARDON RIVER KAOLIN

PROVED ORE RESERVE 700,000 tonnes Ore @

 $65.00\ \%\ KAOLIN \ /\ KAOLINITE \qquad \textbf{FOR} \qquad 455,000\ Tonnes\ KAOLIN \ /\ KAOLINITE$

Comments/Cut Off Factor: Reserve to 25m depth. 95% <45 micron in situ grade. 65% recovered grade.

Reserve to 25m depth. 95% <45 micron in situ grade. 65% recovered grade.

Resource figures listed above are JORC compliant.

Published Reference ID	Year Author	Title	Source
BR 10169	2013 GULF ALUMINA LIMIT	ED RESOURCE STATEMENT	WWW.GULFALUMINA.COM.AU
		UPDATE; LETTER DATED 08	
		MARCH 2013	
BR 9219	2009 MINERALS	ANNUAL REPORT 2009.	MINERALS CORPORATION
	CORPORATION LIMITE	ED	LIMITED, SYDNEY.

A Summary of Major Mineral Resources, Mines and Projects, 2016

Major Mining Related Events

Year Commenced Year Completed 2000 to 2003

Comments

Assets acquired by Queensland Kaolin Ltd (subsidiary of Minerals Corporation Ltd) from Australian Kaolin Ltd on 29th June 2000 for \$6.5 million. Recommissioning of plant

completed in May 2003.

2003

The first bulk shipment of kaolin came from the mine in April 2004. By June 2006, the

company had more than 70 active customers.

Mining Operations Comments

OPEN CUT MINING

Tenure Typ	e/Number	SHARE	Company Name/Surname	_
EPM	4068	20.00%	MINERALS CORPORATION LIMITED	
EPM	4068	80.00%	GULF ALUMINA LIMITED	
ML	6025	100.00%	GULF ALUMINA LIMITED	
ML	40069	100.00%	GULF ALUMINA LIMITED	
ML	40082	100.00%	GULF ALUMINA LIMITED	

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

KARUMBA BASIN Bulimba Formation / EARLY TERTIARY to EARLY TERTIARY

Deposit Model

GENERAL OREBODY MODEL RESIDUAL DEPOSIT
DETAILED OREBODY MODEL LATERITIC KAOLIN

Mineralisation Age

ORE CENOZOIC

Comments

This deposit comprises lenses of sandy kaolin within the pallid zone of a laterite weathering profile and are underlain by a weakly kaolinitic aquifer. The aluminium and iron contents are reportedly lower than in the Weipa deposits.

In September 2006, the project was independently valued at \$143.3 million. The resource base in ML 6025 is sufficient for a mine life of 100 years at a production rate of 150 000t per annum of kaolin product.

Production of bulk samples of 'Kaocem' (low carbon kaolin base cementitious products) commenced in June 2009. The first major sales order (\$1.6M) was received in July 2009.

Kaolin plant removed and construction of alumina plant and barge facilities commenced in 2013.

2013 resource update: The results show a JORC 62 mt at a higher grade and a JORC 84 mt with a lower but marketable grade product. Furthermore, exploration targets of 5-12 mt additional resources have also been identified at Skardon River.

2013 resource: Total Al2O3 recovery 50.3%; total SiO2 11.2% -> recovery 61.7%

The drilling program completed (Oct 2012) all planned 128 holes for a total of 484 metres. About 111 holes were drilled through bauxite & terminated in clays just beneath the bauxite. A total of 1,602 drill samples that are deemed 'bauxitic' were analysed

An unincorporated joint venture agreement signed with ACC EcoMinerals Limited during 2009 recognised Gulf Alumina as the joint holder of the Skardon River mining and exploration tenements with rights to explore for and develop all bauxite in the area.

(cont.) Operating quite independently, the objectives of the joint venture allow the sharing of common expenditure and to use the existing infrastructure. However, this joint venture arrangement was terminated in September 2011 when Gulf Alumina became

(cont.2) the sole holder of the mining and exploration tenements including the associated site infrastructure and improvements at Skardon River.

2012: JORC compliant resources estimation in excess of 50 million tonnes on Skardon River leases with potential for over 200 million tonnes of bauxite in total on all tenements

Web Page

www.gulfalumina.com.au

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483642 SOUTHERN PACIFIC SANDS

OPERATING MINE

Descriptive Location: NE OF BEACHMERE, EAST OF CABOULTURE NEAR DECEPTION BAY, 42KM N OF BRISBANE.

1:100 000 sheet Number and Name: 9543 BRISBANE

Grid Reference: Zone 56 507816 mE 7003851 mN Latitude -27.0876 Longitude 153.0788 17/February/2017 Date Recorded:

Other Names for Deposit / Mine

Ningi Silica Sand

Commodities Size Definition Size SILICA SAND LARGE >2 500 000 tonnes SIS

Production Details

Period: 1-Jul-1996 30-Jun-1997

FOUNDRY SAND 4,323.0 tonnes

Period: 1-Jul-2000 30-Jun-2014 to

SILICA SAND 171,268.6 tonnes FOUNDRY SAND 231,585.3 tonnes

Published Reserves/Resources

BR 6110 Published in 1996 ML 50064

INFERRED MINERAL RESOURCE

750,000 Tonnes SILICA SAND

BR 6110 Published in 1996 ML 50088

INFERRED MINERAL RESOURCE

9,000,000 Tonnes SILICA SAND

Source

PACIFIC SILICA PTY LTD

Resource figures listed above are NOT JORC compliant.

Published Reference ID BR 6110

1996 WOODWARD-CLYDE

Title

BEACHMERE SAND **EXTRACTION**

ENVIRONMENTAL

MANAGEMENT OVERVIEW STRATEGY FOR ML 50088 AND

ML 50064

Major Mining Related Events

Mining Operations

Year Commenced Year Completed Comments

Comments

SURFACE MINING METHODS

Tenure Type/	Number	SHARE	Company Name/Surname
MDL	260	100.00%	PACIFIC SILICA PTY LTD
MDL	261	100.00%	PACIFIC SILICA PTY LTD
ML	50064	100.00%	PACIFIC SILICA PTY LTD
ML	50088	100.00%	PACIFIC SILICA PTY LTD
ML	50140	100.00%	PACIFIC SILICA PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

MODERN COASTAL DEPOSITS Qhcb/4-QLD / QUATERNARY to QUATERNARY

Deposit Model

GENERAL OREBODY MODEL DUNE DEPOSIT

DETAILED OREBODY MODEL DUNE DEPOSIT SILICA SAND

Mineralisation Age

ORE HOLOCENE Dated at between 6 and 10,000 years old.

Comments

Pacific Silica is a joint venture company between Wearnes International Ltd and two Brisbane families trading as Southern Pacific Sands.

The company produces a range of processed sands

These sands are suitable for the foundry, construction, glass, specialty sands, filtration and golf course construction industries. The processing plant was expanded in 1999 to incorporate substantial wet and drying plants

Web Page

www.southern-pacific-sands.com.au; www.wearnes.com

A Summary of Major Mineral Resources, Mines and Projects, 2016

588114 SOVEREIGN

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: ~3KM W OF CRACOW, ~175KM SE OF GLADSTONE.

1:100 000 sheet Number and Name: 8947 CRACOW

Grid Reference: Zone 56 224600 mE 7201600 mN Latitude -25.2767 Longitude 150.2653 Date Recorded: 7/January/2016

Other Names for Deposit / Mine

Cracow Gold Mine Group

Commodities Size Size Definition

GOLD SMALL 0.5 - 5 tonnes AU

Production Details

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID Year Author Title Source

BR 10019 2012 EVOLUTION MINING EVOLUTION MINING MINERAL REPORT TO THE AUSTRALIAN

LIMITED RESOURCE STATEMENT - JUNE SECURITIES EXCHANGE. 25
2012 SEPTEMBER 2012. EVOLUTION

MINING LIMITED, MELBOURNE.

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations Comments

UNDERGROUND MINING METHODS

Tenure Type/Number SHARE Company Name/Surname

Currently untenured mineral deposit

Host Rock/Cover Sequences
Structural Unit Formation Name/Age

AUBURN SUBPROVINCE Camboon Volcanics / LATE CARBONIFEROUS to EARLY PERMIAN

Deposit Model

Mineralisation Age

ORE EARLY PERMIAN

Comments

A Summary of Major Mineral Resources, Mines and Projects, 2016

481465 STRATHPINE

OPERATING MINE

Descriptive Location: STRATHPINE

1:100 000 sheet Number and Name: 9443 CABOOLTURE

Grid Reference: Zone 56 496221 mE 6978885 mN Latitude -27.3130 Longitude 152.9618 Date Recorded: 29/May/2015

Other Names for Deposit / Mine

Strathpine 3 Strathpine 4

Commodities Size Size Definition

BRICK CLAY SMALL 2 000 - 200 000 tonnes BKCY

Production Details

Period: 1-Jul-2005 to 30-Jun-2009

BRICK CLAY 65,685.0 tonnes

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations Comments

OPEN CUT MINING

Tenure Type/Number SHARE Company Name/Surname

Currently untenured mineral deposit

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

PETRIE BASIN Petrie Formation / PALEOCENE to EOCENE

Deposit Model

GENERAL OREBODY MODEL SEDIMENT-HOSTED DEPOSIT

DETAILED OREBODY MODEL SEDIMENTARY CLAY DEPOSITS

Mineralisation Age

ORE EOCENE to OLIGOCENE

Comments

Web Page

www.csr.com.au

A Summary of Major Mineral Resources, Mines and Projects, 2016

493895 SUNSTATE SAND LEASES

OPERATING MINE

Descriptive Location: 62.2KM NNW OF MARYBOROUGH, SOUTH-EAST OF COONARR CREEK

1:100 000 sheet Number and Name: 9347 CHILDERS

Grid Reference: Zone 56 449514 mE 7234328 mN Latitude -25.0056 Longitude 152.4997 Date Recorded: 10/February/2017

Other Names for Deposit / Mine

Coonarr Creek 2 Coonarr Creek 3

Commodities Size Size Definition

 SILICA SAND
 MEDIUM
 1 000 000 - 2 500 000 tonnes SIS

 FOUNDRY SAND
 MEDIUM
 1 000 000 - 2 500 000 tonnes SF

Production Details

Period: 1-Jul-1996 to 30-Jun-2016

SILICA SAND 264,481.9 tonnes

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

1996 Silica sand produced by Sunstate Sands Pty Ltd.

Mining Operations Comments

SURFACE MINING METHODS

PITS

Tenure Typ	pe/Number	SHARE	Company Name/Surname
ML	1228	100.00%	EARTH COMMODITIES BUNDABERG PTY LTD
ML	1229	100.00%	EARTH COMMODITIES BUNDABERG PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

Deposit Model

GENERAL OREBODY MODEL DUNE DEPOSIT

DETAILED OREBODY MODEL DUNE DEPOSIT SILICA SAND

Mineralisation Age

ORE

Comments

High grade silica sand grading 99.5% SiO2. The major contaminants are heavy minerals, principally leucoxene, rutile, zircon, tourmaline and andalusite. This resource is unusual because it can deliver material from below 250 microns up to 5mm.

Pleistocene beach ridge sands flanked by Holocene beach ridge barrier dunes on the seaward side. The eolian sands have been strongly leached producing a well developed podzolic soil profile with a A2 horizon 5m deep of clean white high purity silica sand.

Sunstate commenced mining in late 1996 to feed a pilot plant, which produced approximately 12,000 tonnes per annum of washed and dried sand, principally used in foundry and epoxy industries, architectural coatings, pool, and decorative finishes.

In 2006, Earth Commodities Pty. Ltd acquired Sunstate Sands (Aust) P/L as one of many mine and quarry sites, holding a number of Mining Leases and Mineral Development Leases at Coonarr Creek

Uses for silica sand: Swimming pool pebble, foundry sand, filter Sand, Specialised Dried Sands

Web Page

http://www.ecbundaberg.com.au; http://www.earthcommodities.com.au

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578043 TAIPAN

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 2.2KM SSW OF CLONCURRY 1:100 000 sheet Number and Name: 7056 CLONCURRY

Grid Reference: Zone 54 448168 mE 7708542 mN Latitude -20.7219 Longitude 140.5022 Date Recorded: 8/January/2016

Other Names for Deposit / Mine

CommoditiesSizeSize DefinitionCOPPERSMALL500 - 50 000 tonnes CUGOLDVERY SMALL<0.5 tonnes AU</td>

Production Details

Published Reserves/Resources

BR 10184 Published in 2012 TAIPAN

INFERRED MINERAL RESOURCE 1,460,000 tonnes Ore @

0.80 % COPPER FOR 11,680 Tonnes COPPER 0.10 g/t GOLD FOR 146 Kilograms GOLD

Comments/Cut Off Factor: 0.5% Cu cutoff.

Resource figures listed above are JORC compliant.

Published Reference ID Year Author Title Source

BR 10184 2012 EXCO RESOURCES LTD MARKET RELEASE: ANNOUNCEMENT TO THE OUEENSLAND EXPLORATION AUSTRALIAN SECURITIES

UPDATE; 2012 FIELD EXCHANGE, 20 APRIL 2012.
PROGRAMME HAS EXCO RESOURCES LTD, PERTH.

COMMENCED

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations

Tenure Type/NumberSHARECompany Name/SurnameML90065100.00%COPPERCHEM LIMITED

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

CONSTANTINE DOMAIN Wiggle Waterhole Metagabbro / PALAEOPROTEROZOIC to

PALAEOPROTEROZOIC

Deposit Model

GENERAL OREBODY MODEL HYDROTHERMAL VEINS/PIPE/STOCKWORK

DETAILED OREBODY MODEL IRON-OXIDE CU-AU (-U-REE)

Mineralisation Age

ORE MESOPROTEROZOIC

Comments

Mineralisation comprises a chalcopyrite-dominated sulphide vein stockwork in coarse to medium-grained magnetite-altered gabbroic volcanic rocks. Some occurs as semi-massive zones over several metres thickness within a broad, low-grade stockwork.

In 2012 Exco Resources was taken over by Washington H Soul Pattinson & Co Ltd.

In May 2013 CopperChem announced a non-JORC reserve and resource on their webpage: the uncatagorised reserves for Taipan are

72000 t at 1.51% Cu and 0.11 g/t Au and the uncatagorised resources are 2.22 Mt at 0.74% Cu and 0.11 g/t Au (BR10368).

Web Page

www.excoresources.com.au; http://www.copperchem.com.au/cloncurry.htm

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588840 TANBY

OPERATING MINE

Descriptive Location: 9KM SSE OF YEPPOON, NORTH OF KINKA BEACH ROAD, 2.5KM EAST OF TANBY

1:100 000 sheet Number and Name: 9051 ROCKHAMPTON

Grid Reference: Zone 56 272184 mE 7430692 mN Latitude -23.2171 Longitude 150.7738 Date Recorded: 7/January/2016

Other Names for Deposit / Mine

Tanby 2 Tanby 1

Commodities Size Size Definition

SILICA SAND SMALL 1 000 - 1 000 000 tonnes SIS

Production Details

Period: 1-Jul-2005 to 30-Jun-2010

SILICA SAND 46,688.0 tonnes

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations

Tenure Type	e/Number	SHARE	Company Name/Surname	Christian Name
ML	80147	25.00%	BARLOW	Robert
ML	80147	25.00%	BARLOW	Jeffrey Robert
ML	80147	25.00%	BARLOW	Stewart Darrell
ML	80147	25.00%	BARLOW	Elaine Florence

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

Deposit Model

Mineralisation Age

ORE

Comments

Pleistocene beach ridge sands flanked by Holocene beach ridge barrier dunes on the seaward side.

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487699 TARAGOOLA

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 10.5 KM SSE OF CALLIOPE, 25KM SW OF GLADSTONE.

1:100 000 sheet Number and Name: 9149 CALLIOPE

Grid Reference: Zone 56 321093 mE 7332730 mN Latitude -24.1076 Longitude 151.2398 Date Recorded: 9/February/2017

Other Names for Deposit / Mine

Calliope
Marblestone 8

Commodities Size Definition

LIMESTONE MEDIUM 2 000 000 - 10 000 000 tonnes LST

QUARRY ROCK

Production Details

Period: 1-Jul-1996 to 30-Jun-2016

LIMESTONE OTHER 9,721,204.8 tonnes

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations Comments

OPEN CUT MINING

Tenure Type/Number		SHARE	Company Name/Surname	
ML	3594	100.00%	FROST ENTERPRISES PTY LTD	
ML	3595	100.00%	FROST ENTERPRISES PTY LTD	
ML	3596	100.00%	FROST ENTERPRISES PTY LTD	
ML	3597	100.00%	FROST ENTERPRISES PTY LTD	
ML	3598	100.00%	FROST ENTERPRISES PTY LTD	
ML	3599	100.00%	FROST ENTERPRISES PTY LTD	
ML	3600	100.00%	FROST ENTERPRISES PTY LTD	
ML	3602	100.00%	FROST ENTERPRISES PTY LTD	
ML	3603	100.00%	FROST ENTERPRISES PTY LTD	
ML	3604	100.00%	FROST ENTERPRISES PTY LTD	
ML	3605	100.00%	FROST ENTERPRISES PTY LTD	
ML	3606	100.00%	FROST ENTERPRISES PTY LTD	
ML	3608	100.00%	FROST ENTERPRISES PTY LTD	
ML	3609	100.00%	FROST ENTERPRISES PTY LTD	
ML	80036	100.00%	FROST ENTERPRISES PTY LTD	

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

CALLIOPE SUBPROVINCE Calliope beds/1 / SILURIAN to EARLY DEVONIAN

Deposit Model

GENERAL OREBODY MODEL SEDIMENT-HOSTED DEPOSIT

DETAILED OREBODY MODEL LIMESTONE DEPOSIT

Mineralisation Age

ORE EARLY DEVONIAN

Comments

Taragoola produces lime for cement, agriculture and other uses from an open cut operation run by Frost Enterprises Pty Ltd, a family-owned company established in Gladstone in 1966 to supply Queensland Alumina Ltd with raw limestone.

The Taragoola quarry supplies varying grades of crushed limestone to state and local government departments and the construction, industrial and agricultural industries.

The limestone is extracted by open cut and transported by off-highway 50t dump trucks to a 350t per hour crushing plant. The finished product is dispatched by road and rail to customers from Proserpine to Brisbane.

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493669 TESTAROSA CLAY

OPERATING MINE

Descriptive Location: SOUTH BRISBANE AREA 1:100 000 sheet Number and Name: 9542 BEENLEIGH

Grid Reference: Zone 56 526385 mE 6943550 mN Latitude -27.6318 Longitude 153.2674 Date Recorded: 8/January/2016

Other Names for Deposit / Mine

Commodities Size Definition

BRICK CLAY MEDIUM 200 000 - 20 000 000 tonnes BKCY

AGGREGATE

Production Details

Period: 1-Jul-1998 to 30-Jun-2013

BRICK CLAY 1,201,720.9 tonnes

Published Reserves/Resources

Company Report 23040 Published in 1991

INFERRED MINERAL RESOURCE

2,000,000 Tonnes CLAY

Brick clay, shale.

Resource figures listed above are NOT JORC compliant.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations Comments

OPEN CUT MINING

Tenure Type/Number SHARE Company Name/Surname

ML 50035 100.00% THE AUSTRAL BRICK CO. PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

BEENLEIGH SUBPROVINCE (BLOCK)

Neranleigh-Fernvale beds / DEVONIAN to CARBONIFEROUS

Deposit Model

GENERAL OREBODY MODEL RESIDUAL DEPOSIT

DETAILED OREBODY MODEL SEDIMENTARY CLAY DEPOSITS

Mineralisation Age

ORE CENOZOIC

Comments

Web Page

http://www.australbrick.com.au

A Summary of Major Mineral Resources, Mines and Projects, 2016

507511 THUNDERBIRD PARK

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 3.5KM NORTH OF MOUNT TAMBORINE.

1:100 000 sheet Number and Name: 9542 BEENLEIGH

Grid Reference: Zone 56 518178 mE 6913429 mN Latitude -27.9039 Longitude 153.1847 Date Recorded: 13/February/2017

Other Names for Deposit / Mine

Mount Tamborine Thunder Egg Park Cedar Creek Thunder Egg Park

Commodities Size Size Definition

THUNDER EGG MEDIUM 10 - 100 tonnes THEG

Production Details

Period: 1-Jul-1997 to 30-Jun-2004

THUNDER EGG 86,000.0 australian dollars

Period: 1-Jul-2015 to 30-Jun-2016

THUNDER EGG 78,750.0 australian dollars

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations Comments

OPEN CUT MINING

Tenure Type/Number SHARE Company Name/Surname
ML 5914 100.00% FRETWOOD PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

IPSWICH BASIN Chillingham Volcanics / LATE TRIASSIC to LATE TRIASSIC

Deposit Model

GENERAL OREBODY MODEL

DIATREME OR PYROCLASTIC-RELATED DEPOSITS

DETAILED OREBODY MODEL

GEMSTONES IN DECOMPOSED/WEATHERED ROCK

Mineralisation Age

ORE TRIASSIC

Comments

Thunder eggs were discovered at Mount Tamborine in 1967. Thunderbird Park is a privately run fossicking and camping ground, with gem cutting and sale facilities on site. Resort accommodation, conference facilities and a restaurant are attached.

Web Page

www.thunderbirdpark.com

A Summary of Major Mineral Resources, Mines and Projects, 2016

486592 ULAM MARBLE

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: SOUTH WESTERN SLOPE OF MT MCCAMLEY, 15 KM SSW OF MARMOR, 60KM NW OF GLADSTONE.

1:100 000 sheet Number and Name: 9050 BAJOOL

Grid Reference: Zone 56 260793 mE 7365133 mN Latitude -23.8073 Longitude 150.6521 Date Recorded: 10/February/2017

Other Names for Deposit / Mine

Unnamed 612645

Bajool

Commodities Size Size Definition

 LIMESTONE
 MEDIUM
 2 000 000 - 10 000 000 tonnes LST

 MARBLE
 SMALL
 10 000 - 100 000 tonnes MARB

MAGNESITE VERY SMALL <10 000 tonnes MS

Production Details

Period: 1-Jul-1996 to 30-Jun-2016

LIMESTONE OTHER 2,818,273.3 tonnes

Period: 1-Jul-1999 to 30-Jun-2000

MAGNESITE 262.0 tonnes

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations Comments

OPEN CUT MINING

ADITS

SHAFTS

Tenure Typ	e/Number	SHARE	Company Name/Surname	
ML	3638	100.00%	OMYA AUSTRALIA PTY LIMITED	
ML	3662	100.00%	OMYA AUSTRALIA PTY LIMITED	
ML	3663	100.00%	OMYA AUSTRALIA PTY LIMITED	
ML	3666	100.00%	OMYA AUSTRALIA PTY LIMITED	
ML	80014	100.00%	HOLLIER	William Edward
ML	80028	100.00%	OMYA AUSTRALIA PTY LIMITED	
ML	80167	100.00%	OMYA AUSTRALIA PTY LIMITED	

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

MOUNT MORGAN SUBPROVINCE Ginger Creek Member / MIDDLE DEVONIAN to MIDDLE DEVONIAN

Deposit Model

GENERAL OREBODY MODEL SEDIMENT-HOSTED DEPOSIT

DETAILED OREBODY MODEL LIMESTONE DEPOSIT

Mineralisation Age

ORE MIDDLE DEVONIAN

Comments

Marble is mined by Omya Australia Pty Ltd. It is sugary in texture and used as an industrial filler in plastics, paper and rubber. The beneficiated product must meet strict criteria relating to colour, particle size and acid insolubles.

The Bajool plant also produces stone dust for coal mines and agricultural lime.

Web Page

www.omya.com.au

A Summary of Major Mineral Resources, Mines and Projects, 2016

43490 UNDILLA

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 82 KM NORTH-EAST OF CAMOOWEAL, 17KM SW OF THORNTONIA, 130KM NORTH OF MT ISA.

1:100 000 sheet Number and Name: 6658 UNDILLA

Grid Reference: Zone 54 271211 mE 7831435 mN Latitude -19.5989 Longitude 138.8187 Date Recorded: 10/February/2017

Other Names for Deposit / Mine

Third One

Undilla Limestone Project

Commodities Size Size Definition

LIMESTONE LARGE >10 000 000 tonnes LST

ROAD PAVEMENT GRAVEL

Production Details

Period: 1-Jul-1998 to 30-Jun-1999

LIMESTONE CRUSHED ROCK 18,092.6 tonnes

Period: 1-Jul-1999 to 30-Jun-2000

LIMESTONE CRUSHED ROCK 26,278.2 tonnes

Period: 1-Jul-2000 to 30-Jun-2001

LIMESTONE CRUSHED ROCK 28,601.9 tonnes

Period: 1-Jul-2001 to 30-Jun-2002

LIMESTONE CRUSHED ROCK 18,376.0 tonnes

Period: 1-Jul-2002 to 30-Jun-2003

LIMESTONE CRUSHED ROCK 297.1 tonnes

Period: 1-Jul-2004 to 30-Jun-2005 87,714 tonnes HARD ROCK ORE (OR REEF)

ROAD PAVEMENT GRAVEL 87,714.0 tonnes

Period: 1-Jul-2015 to 30-Jun-2016

ROAD PAVEMENT GRAVEL 3,486.0 tonnes

Published Reserves/Resources

BR 8003 Published in 2003 UNDILLA LIMESTONE

INDICATED MINERAL RESOURCE 10,000,000 tonnes Ore @

 $10,\!000,\!000 \; Tonnes \; LIMESTONE$

High grade limestone bed - Undilla

BR 8003 Published in 2003

UNDILLA LIMESTONE

MEASURED MINERAL RESOURCE 650,000 tonnes Ore @

650,000 Tonnes LIMESTONE

Limestone has a 53.4% CaO content.

Resource figures listed above are NOT JORC compliant.

Published Reference ID Year Author Title Source

BR 8003 2003 LAND AND RESOURCES RE: APPLICATION FOR MINING PROCEEDINGS OF LAND AND TRIBUNAL QUEENSLAND LEASE NO. 90146 BY RESOURCES TRIBUNAL

QUEENSLAND OCTANE PTY QUEENSLAND HEARING. FROM

LTD. WEBSITE

HTTP://WWW.LRT.QLD.GOV.AU

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations Comments

OPEN CUT MINING

Tenure Type/Number SHARE Company Name/Surname

ML 5564 100.00% LAWLOR CONTRACTING PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

GEORGINA BASIN V-Creek Limestone / MIDDLE CAMBRIAN to MIDDLE CAMBRIAN

Deposit Model

GENERAL OREBODY MODEL SEDIMENT-HOSTED DEPOSIT

DETAILED OREBODY MODEL LIMESTONE DEPOSIT

Mineralisation Age

ORE MIDDLE CAMBRIAN

A Summary of Major Mineral Resources, Mines and Projects, 2016

Comments

Lawler Contracting Pty Ltd was quarrying and crushing limestone on ML 5564 for use in neutralising acid mine drainage at Gunpowder. Queensland Octane Pty Ltd holds applications for ML 90146 and MDL 343, which surround ML 5564.

This company is investigating the feasibilty of setting up a cement and lime plant at Mount Isa to utilise a high-grade limestone resource to the south of ML 5564.

The main applications of the limestone would be as a smelter fume and mine runoff neutraliser. Lime would be used mainly as a metallurgical reagent and to treat waste water.

Peak production could reach 500 000t per annum. Undilla Lime Pty Ltd will be the operators of the proposed quarry.

A Summary of Major Mineral Resources, Mines and Projects, 2016

501300 VANCE

OPERATING MINE

Descriptive Location: CENTRE OF NORTH STRADBROKE ISLAND, 45KM EAST OF BRISBANE.

1:100 000 sheet Number and Name: 9543 BRISBANE

Grid Reference: Zone 56 544913 mE 6959066 mN Latitude -27.4912 Longitude 153.4547 Date Recorded: 9/December/2015

Other	Names	for I	Deposit	/ Mine
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Commodities		Size	Size Definition
	SILICA SAND	SMALL	1 000 - 1 000 000 tonnes SIS
	RUTILE	SMALL	2 000 - 200 000 tonnes RUT
	ZIRCON	SMALL	500 - 500 000 tonnes ZIR
	ILMENITE	SMALL	5 000 - 5 000 000 tonnes IM
	MONAZITE	VERY SMALL	<200 tonnes MZ

Production Details

Period: 1-Jul-2004 to 30-Jun-2015

SILICA SAND 1,730,760.0 tonnes

Period: 2-Jul-2004 to 30-Jun-2005

ILMENITE 899.0 tonnes

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

2004 Consolidated Rutile Limited (CRL) transferred ML 1108 to Unimin to enable it to mine silica

sand.

Mining Operations Comments

SURFACE MINING METHODS

Tenure Type/NumberSHARECompany Name/SurnameML1108100.00%SIBELCO AUSTRALIA LIMITED

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

Deposit Model

GENERAL OREBODY MODEL DUNE DEPOSIT

DETAILED OREBODY MODEL DUNE DEPOSIT SILICA SAND

Mineralisation Age

ORE PLEISTOCENE

Comments

Web Page

http://www.unimin.com.au

A Summary of Major Mineral Resources, Mines and Projects, 2016

588041 WADLEY LEASE

OPERATING MINE

Descriptive Location: 24.6KM SOUTH OF IPSWICH, ACCESS FROM VERALLS RD OFF LIMESTONE HILL RD.

1:100 000 sheet Number and Name: 9442 IPSWICH

Grid Reference: Zone 56 472260 mE 6920892 mN Latitude -27.8364 Longitude 152.7183 Date Recorded: 10/February/2017

Other Names for Deposit / Mine

Area 103 & 104

Moreton Dolomite Extension

Jackson South Grid

Wadley Grid

Commodities Size Definition

EARTHY LIME / DOLOMITE (AGRICULTURAL)

SMALL

10 000 - 100 000 tonnes ELIM

BRICK CLAY

SMALL

2 000 - 200 000 tonnes BKCY

PALYGORSKITE

Production Details

Period: 1-Jul-2001 to 30-Jun-2016

EARTHY LIME / DOLOMITE (AGRICULTURAL) 12,804.5 tonnes

Period: 1-Jul-2010 to 30-Jun-2016

PALYGORSKITE 5,113.0 tonnes

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations Comments

OPEN CUT MINING Shallow open cut pit

Tenure Type/Number SHARE Company Name/Surname

ML 50072 50.00% TREVALLYN ENTERPRISES PTY. LIMITED

ML 50072 50.00% MORETON DOLOMITE PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

AMBERLEY BASIN Flinders Dolomite / EARLY TERTIARY to EARLY TERTIARY

Deposit Model

Mineralisation Age

ORE TERTIARY

Comments

In 1992-93 the Wadley and Jackson South Grids were gridded and mapped by Newage. At Wadley 43 holes totalling 252m were drilled and Jackson 37 holes totalling 249m. Average depth 9 - 12m, with many holes ending in dolomite, suggesting extra potential. (cont.) Subsequently two MLs were applied for ML50072 & ML50073. ML50072 was ammended and granted covering both areas. According to Tucker (1996) the palygorskite resource potential is more difficult to evaluate: The 1994 drilling showed the palygorskite zone to have variable thickness, including being absent in places. Best intersections of palygorskite were in holes

(Cont.) LR037 (12m thick) and LR049 (10m thick) (ERMS27583)

A Summary of Major Mineral Resources, Mines and Projects, 2016

504528 WAGNERS SANDSTONE QUARRY

OPERATING MINE

Descriptive Location: SEVENTEEN MILE ROAD, HELIDON

1:100 000 sheet Number and Name: 9342 HELIDON

Grid Reference: Zone 56 417011 mE 6956036 mN Latitude -27.5168 Longitude 152.1597 Date Recorded: 8/January/2016

Other Names for Deposit / Mine

Commodities Size Size Definition

BUILDING STONE VERY SMALL <100 000 tonnes BLST SANDSTONE SMALL 10 000 - 100 000 tonnes SST

Production Details

Period: 1-Jul-1996 to 30-Jun-2011

SANDSTONE 50,421.0 tonnes

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations Comments

OPEN CUT MINING

Tenure Type/Number SHARE Company Name/Surname

ML 50006 100.00% J H WAGNER & SONS PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

CLARENCE-MORETON BASIN Woogaroo Subgroup / LATE TRIASSIC to EARLY JURASSIC

Deposit Model

ORE

GENERAL OREBODY MODEL SEDIMENT-HOSTED DEPOSIT

LATE TRIASSIC to EARLY JURASSIC

Mineralisation Age

Comments

The company has progressively upgraded machinery and equipment at the quarry and its Toowoomba processing plant since 1988 to

increase production of raw blocks and finished products.

Large blocks (each about 8 to 12t) are cut from benches using custom-made trenching machines. Blocks are separated from the quarry floor by more traditional methods using feathers and wedges and are transported to Toowoomba by truck for processing.

The company markets a range of products both domestically and overseas that includes, tiles, walling, pavers, masonary blocks, furniture,

benchtops, landscaping rocks and monuments. Decorative items and special architectural pieces and other custom made

Decorative items, special architectural pieces and custom-made items are also produced. The company has supplied sandstone for Jupiters

Casino and Bond University on the Gold Coast, Hayman Island Resort, and for various restoration projects in Brisbane.

Export sales have been made to Japan and other countries.

This is probably one of the largest quarries in the Helidon area. JH Wagner and Sons Pty Ltd has been operating for >100 years,

producing quality sandstone for the local market and has been exporting products since 1989.

Web Page

www.jhwagner.com.au

A Summary of Major Mineral Resources, Mines and Projects, 2016

507720 WARBRICK

OPERATING MINE

Descriptive Location: 8 KM SOUTHWEST OF WARWICK, ALLORA

1:100 000 sheet Number and Name: 9241 ALLORA

Grid Reference: Zone 56 400235 mE 6870810 mN Latitude -28.2849 Longitude 151.9827 Date Recorded: 13/February/2017

Other Names for Deposit / Mine

Desert Extended

Desert

Commodities Size Size Definition

BRICK CLAY SMALL 2 000 - 200 000 tonnes BKCY

Production Details

Period: 1-Jul-1996 to 30-Jun-2016

BRICK CLAY 43,000.0 tonnes

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations Comments

OPEN CUT MINING

A series of open pit mining to extract clay. New and old workings

lined up along a NW trend for about 600 metres.

Tenure Type/Number SHARE Company Name/Surname

ML 50065 100.00% WARWICK BRICK WORKS PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

CLARENCE-MORETON BASIN Marburg Subgroup / EARLY JURASSIC to MIDDLE JURASSIC

Deposit Model

GENERAL OREBODY MODEL SEDIMENT-HOSTED DEPOSIT
DETAILED OREBODY MODEL SEDIMENTARY CLAY DEPOSITS

Mineralisation Age

ORE JURASSIC

Comments

Open pit mining of clay, exposing a quarry face approximately 7 metres high and 600 metres long.

A Summary of Major Mineral Resources, Mines and Projects, 2016

38244 WEIPA

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 5.7KM WNW OF WEIPA AIRSTRIP, 575KM NW OF CAIRNS.

1:100 000 sheet Number and Name: 7272 WEIPA

Grid Reference: Zone 54 594822 mE 8599567 mN Latitude -12.6666 Longitude 141.8732 Date Recorded: 19/January/2017

Other Names for Deposit / Mine

Weipa Bauxite Mine

Commodities Size Definition Size LARGE **BAUXITE** >200 000 000 tonnes BX KAOLIN / KAOLINITE LARGE >20 000 000 tonnes KAO

Production Details

Period: 1-Jan-1960 30-Jun-1996

BAUXITE

223,115,000.0 tonnes

Period: 1-Jul-1986

30-Jun-1996 to

KAOLIN / KAOLINITE

971,200.0 tonnes

Period: 1-Jul-1996 30-Jun-2016

BAUXITE 319,804,394.0 tonnes BAUXITE 2,392,676.0 tonnes

Published Reserves/Resources

BR 10426 Published in 2014

INDICATED MINERAL RESOURCE 1,320,000,000 tonnes Ore @

1,320,000,000 Tonnes BAUXITE

Comments/Cut Off Factor: At 51.4% alumina

Includes Weipa, Ely and Andoom.

BR 10426 Published in 2014

WEIPA BAUXITE

WEIPA BAHXITE

INFERRED MINERAL RESOURCE 490,000,000 tonnes Ore @

490,000,000 Tonnes BAUXITE

Comments/Cut Off Factor: At 52.0% alumina.

Includes Weipa, Ely and Andoom.

BR 10426 Published in 2014

WEIPA BAUXITE MEASURED MINERAL RESOURCE 95,000,000 tonnes Ore @

95,000,000 Tonnes BAUXITE

Comments/Cut Off Factor: At 49.4% alumina

Includes Weipa, Ely and Andoom.

BR 10426 Published in 2014

WEIPA BAUXITE

PROBABLE ORE RESERVE 983.000.000 tonnes Ore @

98,300,000 Tonnes BAUXITE

Comments/Cut Off Factor: At 52.7% alumina

Includes Weipa, Ely and Andoom.

BR 10426 Published in 2014

WEIPA BAUXITE

PROVED ORE RESERVE 501,000,000 tonnes Ore @

501,000,000 Tonnes BAUXITE

Comments/Cut Off Factor: At 52.2% alumina

Includes Weipa, Ely and Andoom.

BR 5921 Published in 1998

WEIPA KAOLIN

PROBABLE ORE RESERVE 36,000,000 tonnes Ore @

36,000,000 Tonnes KAOLIN / KAOLINITE

BR 5921 Published in 1998 WEIPA KAOLIN

PROVED ORE RESERVE 12,000,000 tonnes Ore @

12,000,000 Tonnes KAOLIN / KAOLINITE

Resource figures listed above are NOT JORC compliant.

Published Reference ID	Year Author	Title	Source
BR 10426	2014 RIO TINTO	2014 ANNUAL REPORT.	RIO TINTO PLC, LONDON.
			REPORTED TO AUSTRALIAN
			STOCK EXCHANGE, MARCH
			2015; RIO TINTO LTD,
			MELBOURNE
BR 5921	1998 GILLIAN BESTER		REGISTER OF AUSTRALIAN
	(EDITOR)		MINING 1998/99. RESOURCE
	· · · · · · · · · · · · · · · · · · ·		INICODMATION UNIT

A Summary of Major Mineral Resources, Mines and Projects, 2016

Major Mining Related Events

Year Commenced Year Completed 1955 to 1960 Comments

The extent and economic potential of the Weipa bauxite deposits were first recognised by HJ Evans in 1955. Commonwealth Aluminium Corporation Pty Ltd explored the deposits and SBML 1 was granted in 1958.

Operating Mine Life: 1961 to 2041 Mining and trial shipments began in 1961. The first commercial shipment of bauxite was made in 1963 and mining has been carried out continuously since then. Major upgrades of the mine were completed in 1998 and 2004.

1985

to

Kaolin was mined as part of the Weipa operation.

Mining Operations Comments
SURFACE MINING METHODS

OPEN CUT MINING

Tenure Type/Number	SHARE	Company Name/Surname
ML 6024	100.00%	RTA WEIPA PTY LTD
ML 7024	100.00%	RTA WEIPA PTY LTD

1996

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

KARUMBA BASIN Bulimba Formation / EARLY TERTIARY to EARLY TERTIARY

Deposit Model

GENERAL OREBODY MODEL RESIDUAL DEPOSIT

DETAILED OREBODY MODEL LATERITIC BAUXITE

DETAILED OREBODY MODEL LATERITIC KAOLIN

Mineralisation Age

ORE CENOZOIC

Comments

operations. Production and resource figures provided by Comalco for Mining Lease 7024 and include both Weipa and Andoom. The kaolin mining operation closed down in 1996. In 2003 and 2004, Comalco erected a new beneficiation plant and power station at Andoom as part of its NE Weipa expansion project. Bauxite is now mined from Weipa East and Andoom as separate mining By the end of 1956, it was established that the bauxite deposits in Weipa are very substantial and are of a grade suitable for the manufacture of alumina. Bauxite occurs within the topmost of four zones (laterite, mottled, pallid and "saprolite") recognised in the 20 - 30m thick weathering profile. The laterite zone comprises iron-cemented soil overburden about 0.5m thick (which is removed by ripping), and a 1 to 5m thick bauxite layer underlain by 1 to 2m of ironstone. The bauxite comprises loose pisolites that consist of gibbsite and boehmite with small amounts of kaolinite and quartz. Generally, the bauxite is poorly cemented or uncemented and mining is relatively easy.

The matrix between the pisolites, although bauxitic, has a high silica content (up to 12% total silica) in the form of sand and silt size quartz grains. This is removed by wet screening to beneficiate the product. The ironstone layer consists of goethite and hematite nodules with varying amounts of kaolinite and quartz. It is much harder and is the cut-off for mining. Kaolin occurs in the pallid zone of the weathering profile and was mined from areas from which the overlying bauxite has been removed. The deposits are discontinous clay lenses approximately 2 to 3km long, 300m wide and 4.5m in average thickness. They overlie a shallow quartz aquifer. Kaolin was mined for the production of premium quality coating clays. The crude kaolin ore contained 80 to 90% kaolinite, 5 to 20% quartz, 0.1 to 0.3% hematite, 1 to 2% anatase and 1 to 3% muscovite. Accessory minerals include zircon, tourmaline, leucoxene, rutile, ilmenite, goethite, sphene, siderite, magnetite, apatite, monazite, andalusite, staurolite, spinel and halloysite (Schaap, 1990).

Web Page

www.riotinto.com/riotintoalcan/

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501297 **WILLOWS**

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 2 KM SOUTH OF WILLOWS, WEST OF EMERALD, CENTRAL QLD.

1:100 000 sheet Number and Name: 8350 BOGANTUNGAN

Grid Reference: Zone 55 547272 mE 7381502 mN Latitude -23.6765 Longitude 147.4636 Date Recorded: 13/February/2017

Other Names for Deposit / Mine

Willows Zeolite Mine

Robert One

Robert Two

Robert Three

Robert Four

Robert Five

Robert Six

Commodities **Size Definition**

Size MEDIUM ZEOLITE 200 000 - 2 000 000 tonnes ZEOL

Production Details

Period: 1-Jul-1995 30-Jun-2016

ZEOLITE 20,931.4 tonnes

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Title Source Published Reference ID Year Author

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations Comments

OPEN CUT MINING

Tenure Type	/Number	SHARE	Company Name/Surname
MDL	337	100.00%	ZEOLITE AUSTRALIA PTY LIMITED
MDL	338	100.00%	ZEOLITE AUSTRALIA PTY LIMITED
ML	70214	100.00%	QLD ZEOLITE PTY LTD
ML	80078	100.00%	QLD ZEOLITE PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

DRUMMOND BASIN Ducabrook Formation / EARLY CARBONIFEROUS to EARLY

CARBONIFEROUS

Deposit Model

SEDIMENT-HOSTED DEPOSIT GENERAL OREBODY MODEL

Mineralisation Age

EARLY CARBONIFEROUS ORE

Comments

Zeolite has formed in altered, water-lain, ash-fall tuffs of the Early Carboniferous Ducabrook Formation. The sequence is gently folded, with no evident metamorphism.

In April 2000, Supersorb Minerals NL signed an agreement with Currumbin Sand and Gravel Pty Ltd to mine and process zeolite material from this site. Material is mined and transported to Duringa for processing. A crushing facility was constructed in 2001.

In June 2007, Supersorb divested itself of all its zeolite interests.

A Summary of Major Mineral Resources, Mines and Projects, 2016

610270 WILLOWS TWO

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 2.5 KM SOUTH OF WILLOWS, WEST OF EMERALD, CENTRAL QLD.

1:100 000 sheet Number and Name: 8350 BOGANTUNGAN

Grid Reference: Zone 55 548248 mE 7381262 mN Latitude -23.6787 Longitude 147.4732 Date Recorded: 13/February/2017

Other Names for Deposit / Mine

Robert Two

Commodities Size Size Definition

ZEOLITE SMALL 2 000 - 200 000 tonnes ZEOL

Production Details

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations

Tenure Type/Number SHARE Company Name/Surname
ML 70214 100.00% QLD ZEOLITE PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

DRUMMOND BASIN Ducabrook Formation / EARLY CARBONIFEROUS to EARLY

CARBONIFEROUS

Deposit Model

Mineralisation Age

Comments

Zeolite has formed in altered, water-lain, ash-fall tuffs of the Early Carboniferous Ducabrook Formation. The sequence is gently folded, with no evident metamorphism.

with no evident metamor

A Summary of Major Mineral Resources, Mines and Projects, 2016

41596 WIRRALIE

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: 31.3KM NNW OF MOUNT COOLON 1:100 000 sheet Number and Name: 8355 MOUNT COOLON

Grid Reference: Zone 55 527164 mE 7665370 mN Latitude -21.1125 Longitude 147.2616 31/January/2017 Date Recorded:

Other Names for Deposit / Mine

Commodities **Size Definition** Size GOLD MEDIUM 5 - 50 tonnes AU **SILVER** VERY SMALL <5 tonnes AG

Production Details

Period: 1-Jan-1988 31-Dec-1993 5,840,000 tonnes HARD ROCK ORE (OR REEF) BULLION **GOLD** 13,374.5 kilograms Period: 1-Jan-1999 31-Dec-1999 964,000 tonnes HARD ROCK ORE (OR REEF) GOLD BULLION 1,226.3 kilograms 1.30 grams per tonne 31-Dec-2000 Period: 1-Jan-2000 927,000 tonnes HARD ROCK ORE (OR REEF) **GOLD** BULLION 1,365.4 kilograms 1.22 grams per tonne 31-Dec-2001 1,280,000 tonnes HARD ROCK ORE (OR REEF) Period: 1-Jan-2001 to **GOLD BULLION** 1,303.2 kilograms 1.16 grams per tonne Period: 1-Jul-2006 30-Jun-2007 to FINE **GOLD** 15.2 kilograms **SILVER** 5.0 kilograms Period: 1-Jul-2014 30-Jun-2016 FINE GOLD 108.3 kilograms

Published Reserves/Resources

BR 8127 Published in 2004

WIRRALIE OXIDE ORE

INDICATED MINERAL RESOURCE 1,670,000 tonnes Ore @

1.01 g/t GOLD FOR 1,686 Kilograms GOLD

Comments/Cut Off Factor: 0.7g/t Au cutoff

BR 8127 Published in 2004

WIRRALIE OXIDE ORE

INFERRED MINERAL RESOURCE 606,000 tonnes Ore @

630 Kilograms GOLD 1.04 g/t GOLD **FOR**

Comments/Cut Off Factor: 0.7g/t Au cutoff

BR 8127 Published in 2004

WIRRALIE OXIDE ORE

MEASURED MINERAL RESOURCE 2,158,000 tonnes Ore @

1.11 g/t GOLD FOR 2,395 Kilograms GOLD

Comments/Cut Off Factor: 0.7g/t Au cutoff

BR 8127 Published in 2004

WIRRALIE SULPHIDE ORE

INFERRED MINERAL RESOURCE 5,300,000 tonnes Ore @

2.33 g/t GOLD **FOR** 12,349 Kilograms GOLD

Comments/Cut Off Factor: 1.4g/t Au cutoff

Resource figures listed above are JORC compliant.

Published Reference ID Title Source Year Author

BR 8127 2004 ASHBURTON MINERALS 2004 ANNUAL REPORT. ASHBURTON MINERALS

LIMITED, PERTH. LIMITED

A Summary of Major Mineral Resources, Mines and Projects, 2016

Major	Mining	Related	Events
MAIOI	1411111111	ixtiattu	LYCHUS

Year Commend 1986	to	Year Completed 1986	Comments Originally discovered by Australian Consolidated Minerals Ltd during follow-up of anomalous BLEG stream sediment sampling results.
1987	to	1992	Mining development by Australian Consolidated Minerals Ltd commenced in November 1987. Operations ceased in 1992.
1992	to	1992	Ross Mining NL acquired property.
1993	to	1993	Plant relocated to Yandan mine.
1998	to	1999	Ross Mining NL returned the treatment plant to Wirralie once the Yandan resource was exhausted.
1999	to	2001	Mining by Ross Mining NL with first gold from oxide ore poured in July 1999. Open pit mining ceased in June 2001. Stockpiles were treated before the mine was placed on long term care and maintenance in November 2001.
2003	to	2003	Ashburton Minerals Ltd bought the Drummond Basin Gold Project in August 2003, from Delta Gold Ltd, a subsidiary of Aurion Gold Ltd.
2004	to	2004	Ashburton Minerals Ltd was preparing a feasibility study and a resource estimate. The study was suspended in March 2004 to focus on the delineation of additional resources.
2005			Purchased tenure and commenced deeper drilling and stepping out from previous mining to successfully identify further resources.

Operating Mine Life: 2007 to 2010 Planned heap leach mining operation. Oxide resource has 3 year mine life. If sulphide resource mined then an additional 5 years mine life.

Mining Operations		Comments		
OPEN CUT MINING		ceased in June 2001. The three pits	Rehabilitation of the site is well underway; open cut mining ceased in June 2001. The three pits are called Pit A, Pit B, and the Deep Lead Pit. Pits A and B are separated by the north-east-trending Juggler Fault.	
Tenure Type/Number	SHARE	Company Name/Surname		
ML 1079	100.00%	SOLOMONS GOLD PTY LTD		
Host Rock/Cover Sequences Structural Unit DRUMMOND BASIN		Formation Name/Age Mount Wyatt Formation / LATE DEVONIAN t CARBONIFEROUS	o EARLY	
Deposit Model				
GENERAL OREBODY M	IODEL	EPITHERMAL VEINS/PIPE/STOCKWORK		
DETAILED OREBODY N	MODEL	EPITHERMAL PRECIOUS METAL	LOW SULPHIDATION EPITHERMAL	

Comments

Economic gold mineralisation occurs in a tabular body that is crudely conformable with the enclosing Late Devonian to early Carboniferous felsic volcanics and volcaniclastics.

A network of quartz-chalcedony veins and quartz-matrix breccia veins of at least four generations cut the host rocks.

Ashburton Minerals Ltd purchased the Drummond Basin Gold Project in August 2003 from Delta Gold Ltd, a subsidiary of Aurion Gold Ltd and sold it in 2005.

A Summary of Major Mineral Resources, Mines and Projects, 2016

38524 **WOLFRAM CAMP**

OPERATING MINE, ACTIVE PROSPECT

Descriptive Location: WOLFRAM CAMP, 21KM NW OF DIMBULAH, 80KM WEST OF CAIRNS.

1:100 000 sheet Number and Name: 7863 CHILLAGOE

Grid Reference: Zone 55 283914 mE 8109969 mN Latitude -17.0845 Longitude 144.9694 Date Recorded: 31/January/2017

Other Names for Deposit / Mine

Wolfram Camp Tungsten Mine Wolfram Camp Tungsten Prospect

Commodities	Size	Size Definition	
TUNGSTEN	MEDIUM	500 - 10 000 tonnes W	
MOLYBDENUM	SMALL	50 - 5 000 tonnes MO	
BISMUTH	SMALL	50 - 5 000 tonnes BI	

Production Details

Period: 1-Jan-1893 31-Dec-1990

WOLFRAMITE 6,855.0 tonnes MOLYBDENITE 135.0 tonnes BISMUTHINITE 1,535.0 tonnes Period: 1-Jul-2008 30-Jun-2016 MOLYBDENITE

82.4 tonnes WOLFRAMITE 1,635.8 tonnes

Published Reserves/Resources

BR 10463 Published in 2015 WOLFRAM CAMP

> INDICATED MINERAL RESOURCE 514,000 tonnes Ore @ 0.23 % TUNGSTIC OXIDE FOR 1,182 Tonnes TUNGSTIC OXIDE

Molybdenum no longer reported

BR 10463 Published in 2015

WOLFRAM CAMP

Mining concentrated on eluvial material.

INFERRED MINERAL RESOURCE 1,879,000 tonnes Ore @ 0.31 % TUNGSTIC OXIDE FOR 5,824 Tonnes TUNGSTIC OXIDE

Molybdenum no longer reported

Resource figures listed above are JORC compliant.

to

to

1971

1982

1982

1990

Decline.

Published Reference 1 BR 10463		Author ALMONTY INDUSTRIE	Title ALMONTY ANNOUNCES THE FOLLOWING FILINGS: THE SANTOS MINE NI 43-101 TECHNICAL REPORT DATE OCTOBER 31, 2015; THE WOLFRAM CAMP MINE NI 43-101 TECHNICAL REPORT DATED OCTOBER 31, 2015. THE VALTREIXAL PROJECT 43-101 TECHNICAL REPORT DATED OCTOBER 31.	E LOS ED F AND F NI	
Major Mining Relate					
Year Commenced	Year Comp		* \		
1888 to	188	B8 Discovery (Willia	e Joss).		
1893 to	199	90 Intermittent mini	ng.		

Underground development commenced with 2 declines, New Forget-Me-Not and the Lane

A Summary of Major Mineral Resources, Mines and Projects, 2016

Mining Operations

Comments

OPEN CUT MINING

UNDERGROUND MINING METHODS

PITS

SHAFTS

TRENCHES

ADITS

SURFACE MINING METHODS

Tenure Type/Number		SHARE	Company Name/Surname
EPM	8884	15.00%	TROPICAL METALS PTY LTD
EPM	8884	85.00%	WOLFRAM CAMP MINING PTY LIMITED
ML	4935	15.00%	TROPICAL METALS PTY LTD
ML	4935	85.00%	WOLFRAM CAMP MINING PTY LIMITED
ML	5117	15.00%	TROPICAL METALS PTY LTD
ML	5117	85.00%	WOLFRAM CAMP MINING PTY LIMITED
ML	20486	15.00%	TROPICAL METALS PTY LTD
ML	20486	85.00%	WOLFRAM CAMP MINING PTY LIMITED
ML	20534	15.00%	TROPICAL METALS PTY LTD
ML	20534	85.00%	WOLFRAM CAMP MINING PTY LIMITED

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

KENNEDY IGNEOUS ASSOCIATION

James Creek Granite / LATE CARBONIFEROUS to LATE

CARBONIFEROUS

Deposit Model

GENERAL OREBODY MODEL INTRUSIVE-RELATED (PORPHYRY-RELATED)

DETAILED OREBODY MODEL GREISEN ENDO-GREISEN

Mineralisation Age

ORE LATE CARBONIFEROUS

Comments

This deposit occurs in the roof zone of a highly fractionated granite body capped by Hodgkinson Formation sediments and Featherbed Volcanics.

Mineralisation is confined to greisen zones and consists of irregular branching pipes, minor mineralised flat joints and irregular segregations. Wolframite is randomly distributed. Molybdenite is concentrated on the margins of pipes.

Queensland Ores Limited targeted wolframite-molybdenite in portions of alteration zones around the high-grade pipes, especially between the Lanes Decline and Victory workings.

 $Drilling\ results\ announced\ in\ October\ 2007\ included\ 1m\ at\ 1.43\%\ WO3\ and\ 0.79\%\ MoS2\ from\ 60m,\ 2m\ at\ 0.55\%\ WO3\ and\ 0.08\%$

 $MoS2 \; from \; 16m, \, 6m \; at \; 0.21\% \; WO3 \; and \; 0.08\% \; MoS2 \; from \; 2m, \, and \; 7m \; at \; 0.29\% \; WO3 \; and \; 0.26\% \; MoS2 \; from \; 29m.$

Sulphide concentrates are being stockpiled and will be batch treated to extract molybdenite concentrate, rather than operate the molybdenite circuit continuously.

By the end of March 2008, construction work at the mine site was 95% complete. Commissioning of the treatment plant was completed and the first shipment of concentrates took place on 15 September 2008.

Queensland Ores Ltd (now Planet Metals Ltd) announced on November 2008 that the Wolfram Camp mine had suspended operations to conserve money as mining and metallurgical issues are being addressed.

April 2011: Wolfram Camp Mining Pty Ltd a wholly owned subsidiary of Planet Metals Ltd has been sold to Deutsche Rohstoff AG the sale includes the processing plant, the MLs and exploration permits held over the Wolfram Camp Tungsten-Molybdenum deposit.

Almonty Industries had acquired Wolfram Camp from Deutsche Rohstoffe AG in 2014 and mined the open cut primarily mining tungsten, and letting the molybdenum go to the tailings and waste dumps. In early 2016 the mine and open cut was put on care and (cont.) maintenance. Molybdenum is no longer reported in the 2015 NI 43-101 resource figures. At the base of the open cut bismuth

minerals as well as molybdenite were still commonly observed, but were not regarded feasible to recover.

Web Page

www.rohstoff.de

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496707 **YARRAMAN**

OPERATING MINE

Descriptive Location: NORTH EASTERN CORNER OF NORTH STRADBROKE ISLAND, 45KM EAST OF BRISBANE.

1:100 000 sheet Number and Name: 9543 BRISBANE

Grid Reference: Zone 56 548959 mE 6962127 mN Latitude -27.4634 Longitude 153.4955 8/January/2016 Date Recorded:

Other Names for Deposit / Mine

Commodities **Size Definition** Size ILMENITE **SMALL** 5 000 - 5 000 000 tonnes IM ZIRCON **SMALL** 500 - 500 000 tonnes ZIR **RUTILE** MEDIUM 200 000 - 500 000 tonnes RUT

MONAZITE VERY SMALL <200 tonnes MZ

Production Details

Period: 1-Jul-2000 30-Jun-2009

RUTILE 237,900.0 tonnes ILMENITE 581,471.0 tonnes

2-Jul-2000 30-Jun-2012 Period:

ZIRCON 263,871.0 tonnes

Published Reserves/Resources

BR 8476 Published in 2006 YARRAMAN - DREDGE

MEASURED MINERAL RESOURCE 238,100,000 tonnes Ore @

0.28 % ILMENITE FOR 676,204 Tonnes ILMENITE 0.12 % RUTILE FOR 288 101 Tonnes RUTILE 0.09 % ZIRCON **FOR** 219,052 Tonnes ZIRCON

Comments/Cut Off Factor: 0.6% heavy minerals cut off. Includes proved reserves of 125.6Mt at 0.69% heavy minerals.

BR 8476 Published in 2006 YARRAMAN - DRY MINE

INDICATED MINERAL RESOURCE 13,100,000 tonnes Ore @

0.44 % ILMENITE FOR 56,985 Tonnes ILMENITE 0.17 % RUTILE FOR 22,270 Tonnes RUTILE 0.14 % ZIRCON 18,078 Tonnes ZIRCON FOR

Comments/Cut Off Factor: 0.9% heavy minerals cut off.

BR 8476 Published in 2006 YARRAMAN - DRY MINE

INFERRED MINERAL RESOURCE 2,200,000 tonnes Ore @

0.48 % ILMENITE FOR 10,626 Tonnes ILMENITE 0.16 % RUTILE **FOR** 3,542 Tonnes RUTILE 0.13 % ZIRCON **FOR** 2,772 Tonnes ZIRCON

Comments/Cut Off Factor: 1.0% heavy minerals cut off.

BR 8476 Published in 2006 YARRAMAN - DRY MINE

> MEASURED MINERAL RESOURCE 8,000,000 tonnes Ore @ 36,080 Tonnes ILMENITE 0.45 % ILMENITE FOR 0.17 % RUTILE **FOR** 13,200 Tonnes RUTILE

0.12 % ZIRCON FOR 9,680 Tonnes ZIRCON

Comments/Cut Off Factor: 0.9% heavy minerals cutoff. Includes proved 5.6Mt at 1.07% and probable 7.1Mt at 0.96% heavy mineral

Resource figures listed above are JORC compliant.

Title Source Published Reference ID Year Author

BR 8476 ANNUAL REPORT 2006. CONSOLIDATED RUTILE 2006 CONSOLIDATED RUTILE LIMITED, BRISBANE. LIMITED

Major Mining Related Events

Year Commenced Year Completed Comments

Operating Mine Life: 1999 to 2012 Dredge relocated to this mine in 1999 with operations commencing in Sept 1999.

Mining Operations Comments

DREDGING Floating dredge with spiral concentrators snaking through high

Tenure Type/Number SHARE Company Name/Surname MI. 100.00% STRADBROKE RUTILE PTY LTD 1109 100.00% STRADBROKE RUTILE PTY LTD ML 1122

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Host Rock/Cover Sequences

Structural Unit Formation Name/Age

MODERN COASTAL DEPOSITS

Deposit Model

GENERAL OREBODY MODEL DUNE DEPOSIT

DETAILED OREBODY MODEL DUNE DEPOSIT HEAVY MINERALS

Mineralisation Age

ORE CENOZOIC

Comments

Part of Consolidated Rutile Limited's North Stradbroke mineral sands mining operation. Heavy minerals sands are mined using a dredge on artificial ponds concentrated and taken by barge to Pinkenba at the mouth of the Brisbane River for final separation. In 2009 Sibelco acquired all assets from Consolidated Rutile Ltd.

Web Page

http://www.sibelco.com.au

A Summary of Major Mineral Resources, Mines and Projects, 2016

587965 YUNGAN

OPERATING MINE

Descriptive Location: 16.5KM E OF WARWICK 1:100 000 sheet Number and Name: 9341 WARWICK

Grid Reference: Zone 56 422387 mE 6880224 mN Latitude -28.2014 Longitude 152.2092 Date Recorded: 8/January/2016

Other Names for Deposit / Mine

Malcolm Guy Yangan Quarry

Commodities Size Size Definition

SANDSTONE SMALL 10 000 - 100 000 tonnes SST BUILDING STONE VERY SMALL <100 000 tonnes BLST

Production Details

Period: 1-Jul-2007 to 30-Jun-2012

SANDSTONE 59,097.0 tonnes

Published Reserves/Resources

Resource figures listed above have been extracted from Company Annual reports or published literature.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations Comments

OPEN CUT MINING

Tenure Type/NumberSHARECompany Name/SurnameML5016350.00%FREESPORT PTY LIMITEDML5016350.00%DENSYL SANDSTONE PTY LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

CLARENCE-MORETON BASIN Marburg Subgroup / EARLY JURASSIC to MIDDLE JURASSIC

Deposit Model

GENERAL OREBODY MODEL SEDIMENT-HOSTED DEPOSIT

Mineralisation Age

Comments

A Summary of Major Mineral Resources, Mines and Projects, 2016

504525 ZACK'S

OPERATING MINE

Descriptive Location: SEVENTEEN MILE ROAD HELIDON, 6 KM NORTH-NORTH-EAST OF HELIDON, 85KM WEST OF BRISBANE.

1:100 000 sheet Number and Name: 9343 ESK

Grid Reference: Zone 56 416365 mE 6958093 mN Latitude -27.4981 Longitude 152.1533 Date Recorded: 8/February/2017

Other Names for Deposit / Mine

Rosa And Bondi Quarries

Pearson'S Quarry

Commodities Size Definition

 BUILDING STONE
 SMALL
 100 000 - 2 000 000 tonnes BLST

 SANDSTONE
 MEDIUM
 100 000 - 1 000 000 tonnes SST

Production Details

Period: 1-Jan-1991 to 31-Dec-1991

SANDSTONE 4,200.0 tonnes

Period: 1-Jul-2002 to 30-Jun-2014

SANDSTONE 87,715.1 tonnes

Published Reserves/Resources

BR 6192 Published in 2000 ZACK'S

INDICATED MINERAL RESOURCE

861,400 Tonnes SANDSTONE

DEPARTMENT OF MINES AND

REPORT NO.3

ENERGY KEY RESOURCE AREA

Probable reserves and Indicated resources of sandstone as at 31st December 1992.

Resource figures listed above are NOT JORC compliant.

Published Reference ID Year Author Title Source

BR 6192 2000 NEVILLE BJ, WILLMOTT KEY RESOURCE AREAS FOR WF, O'FLYNN ML, SANDSTONE BUILDING STONE, POTTER R EXTRACTIVE MATERIALS AND

EXPLOSIVES INDUSTRY

HELIDON AREA (DRAFT)

Major Mining Related Events

Year Commenced Year Completed Comments

1991 to 1992 The Rosa quarry was re-opened in mid-1991 and worked for 6 months.

Mining Operations Comments

OPEN CUT MINING

Tenure Type/NumberSHARECompany Name/SurnameML50013100.00%CHONGHERR INVESTMENTS LTD

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

CLARENCE-MORETON BASIN Helidon Sandstone / TRIASSIC to TRIASSIC

Deposit Model

GENERAL OREBODY MODEL SEDIMENT-HOSTED DEPOSIT

Mineralisation Age

ORE LATE TRIASSIC to EARLY JURASSIC

Comments

Quarry produced significant amounts of banded sandstone blocks.

Web Page

www.chongherr.com.au

A Summary of Major Mineral Resources, Mines and Projects, 2016

481012 ZINABACK

OPERATING MINE

Descriptive Location: 72 KM NORTH-WEST OF CHARTERS TOWERS, 110KM WEST OF CAIRNS.

1:100 000 sheet Number and Name: 8058 HILLGROVE

Grid Reference: Zone 55 371907 mE 7830213 mN Latitude -19.6190 Longitude 145.7784 Date Recorded: 8/January/2016

Other Names for Deposit / Mine

Jubilee

Hillgrove Dolomite

Commodities	Size	Size Definition
EARTHY LIME / DOLOMITE (AGRICULTURAL)	MEDIUM	100 000 - 1 000 000 tonnes ELIM

Production Details

Period: 1-Jan-1993 to 31-Dec-1993

EARTHY LIME / DOLOMITE (AGRICULTURAL)

177.0 tonnes

Period: 1-Jul-1996 to 30-Jun-2001

EARTHY LIME / DOLOMITE (AGRICULTURAL) 5,231.0 tonnes

Period: 1-Jul-2008 to 30-Jun-2012

EARTHY LIME / DOLOMITE (AGRICULTURAL) 64,205.3 tonnes

Published Reserves/Resources

Company Report 25397 Published in 1990

ZINABACK

INFERRED MINERAL RESOURCE

450,000 Tonnes EARTHY LIME / DOLOMITE (AGRICULTURAL)

Resource figures listed above are NOT JORC compliant.

Published Reference ID Year Author Title Source

Major Mining Related Events

Year Commenced Year Completed Comments

Mining Operations Comments

OPEN CUT MINING Each pit is approximately 50m x 50m and 6m deep.

Tenure Type/NumberSHARECompany Name/SurnameML1694100.00%ZINABACK PTY. LTD.

Host Rock/Cover Sequences

Structural Unit Formation Name/Age

NULLA BASALT PROVINCE Allingham Formation / LATE TERTIARY to LATE TERTIARY

Deposit Model

GENERAL OREBODY MODEL SEDIMENT-HOSTED DEPOSIT

DETAILED OREBODY MODEL DOLOMITE DEPOSIT

Mineralisation Age

ORE PLIOCENE Flat bedded nodular material.

Comments

The dolomite deposit in the main pit is under approximately 1.5 m of overburden, the dolomite body itself being approximately 2 m thick.

The dolomite ore material contains 94% carbonates with a ratio of approximately 2:1 for calcium carbonate to magnesite.