

South Australia's Mineral Projects

Resource Estimates and Production Statistics



Government of South Australia
Department for Energy and Mining

Prepared by DEM 09/05/2025

Developing Projects	Commodity	Status	Total Resource & Ore Reserve (unless otherwise indicated)	Estimated Contained Commodity (from Resource)
Oak Dam – BHP Group Pty Ltd www.bhp.com	Copper (Cu), Gold (Au), Uranium (U ₃ O ₈), Silver (Ag)	Advanced Exploration	Inferred Mineral Resource: 1,340 Mt at 0.66% Cu, 0.33g/t Au <i>BHP Financial Results</i>	Contained Resources: 8.8 Mt Cu, 442,200 Kg Au BHP Financial Results June 2024
Fremantle Doctor – BHP Group Pty Ltd www.BHP.com	Copper (Cu), Gold (Au), Silver (Ag)	JORC Resource	100 Mt at 0.51% Cu, 0.33 g/t Au, 1.2 g/t Ag <i>ASX release 30/06/22</i>	Inferred resource: 520 000 t Cu, 1,100,000 Oz Au and 4,000,000 Oz Ag <i>ASX release 30/06/22</i>
North Portia – Benagerie Gold & Copper Pty Ltd www.conmc.net.au	Copper (Cu), Gold (Au), Molybdenum (Mo)	JORC Resource	12.5 Mt (sulfide) at 0.81 % Cu, 0.6 g/t Au, 452 g/t Mo <i>ASX Release 15/05/18</i>	101 400 t Cu, 258 800 oz Au, 594 t Co, 5630 t Mo
Jamieson Tank – ChemX Materials Limited https://chemxmaterials.com.au/	Manganese (Mn)	JORC Resource	13.1 Mt at 5.7% Mn (14.8% Fe, 48.7% SiO ₂ , 10% Al ₂ O ₃ , 0.094% P) <i>ASX Release 20/09/23</i>	Contained Resource: 132,400 t Mn <i>ASX Release 20/09/23</i>
Kapunda – EnviroCopper / Terramin Australia Ltd/ BHP Group https://www.envirocopper.com.au/	Copper (Cu)	Advanced Exploration	Inferred resource of 47.4 Mt at 0.25% Cu (0.05% Cu cut-off for in-situ recovery) <i>ASX Release 12/02/18</i>	Inferred resource: 119,000 t Cu <i>ASX Release 12/02/18</i>
Alford East – Thor Energy Plc	Copper (Cu), Gold (Au)	JORC Resource	Inferred resource of 125.6 Mt at 0.14% Cu and 0.018 g/t Au (0.05% Cu cut-off grade for in-situ recovery) <i>ASX Release 27/01/21</i>	Inferred contained resource: 177,000 t Cu, 71,500 oz Au <i>ASX Release 27/01/21</i>
Bungalow – Hoa Phat Group https://www.hoaphat.com.vn	Magnetite (Fe ₃ O ₄)	JORC Resource	338 Mt at 29.6% Fe (34.3% DTR conc. at 69.7% Fe) includes Minbrie <i>ASX Release 25/05/12</i>	80 806 000 t Fe (MRD estimate)
Wilcherry Hill – Alliance Resource Ltd	Magnetite (Fe ₃ O ₄)	JORC Resource	Wilcherry Hill 69.3 Mt (ind.and inf.) at 25.9% Fe, 32.0% SiO ₂ , 7.9% Al ₂ O ₃ , 0.06% P Weednanna 1.15 Mt at 59.4% Fe (29/01/21) Ore Reserve 1.9 Mt DSO at 57% Fe and 1 Mt DMS conc. grade 52.6% Fe <i>Qtrly rpt Sept 2013</i>	<17 950 000 t Fe (DSD estimate)
Grants – Havilah Resources Limited havilah-resources-projects.com	Hematite (Fe ₂ O ₃), Magnetite (Fe ₃ O ₄)	JORC Resource	304 Mt (inf) at 24% Fe Fe at 18% Fe cut-off <i>ASX Release 5/12/2012</i>	100 Mt Fe concentrate (est. yield 33%)
Olary Flats – Lodestone Mines Pty Ltd www.lodestonemines.com	Magnetite (Fe ₃ O ₄)	Feasibility Studies	214 Mt (ind.) at 26.3% Fe, 40.8% Si, 26.4% DTR 296 Mt (inf.) at 26.4% Fe, 41.3% Si, 27.3% DTR <i>ASX release 7/3/2014</i>	96 Mt at 26.9% Fe head grade, conc. 69.7% Fe
Snaefell – Cu-River Mining Australia Pty Limited www.curiver.com.au	Magnetite (Fe ₃ O ₄)	JORC Resource	569 Mt at 27.1% Fe (using 18% Fe cut-off)	<154 000 000 t Fe (MRD estimate)
Green Iron Magnetite Project – Lincoln Minerals Limited www.lincolnminerals.com.au	Magnetite (Fe ₃ O ₄)	JORC Resource	Total resource of 1244.3 Mt at 25.32% Fe (22.71% DTR) across 9 deposits, including 396.4 Mt of Measured and Indicated resources. <i>ASX Release 21/03/2024</i>	
Hawks Nest – Peak Iron Mines Pty Ltd www.peakiron.com	Hematite (Fe ₂ O ₃), Magnetite (Fe ₃ O ₄)	Feasibility Studies	Hematite: Buzzard: 11.5 Mt (ind. & inf.) at 58.8% Fe. Tui 3.9 Mt (ind. & inf.) at 58.4% Fe. Magnetite: Kestrel: 231.3 Mt (ind. & inf.) at 36.5% Fe. Kite: 68.8 Mt (ind. & inf.) at 36.1% Fe. Goshawk (inf.) 149 Mt at 34.8% Fe. Harrier (inf.) 54 Mt at 35.4% Fe. Falcon (inf.) 25 Mt at 31.7% Fe. Eagle (inf.) 92 Mt at 31.3% Fe. <i>Peak Iron Mines webpage, viewed 26/10/2023</i> Ore Reserve Hematite: Buzzard 10.2 Mt (prob.) at 61.1% Fe. <i>Peak Iron Mines webpage, viewed 26/10/2023</i>	9 Mt contained Fe (hematite) and 216.9 Mt contained Fe (magnetite) Peak Iron webpage – viewed 26/05/2023 6.2 Mt contained Fe (hematite) Peak Iron webpage – viewed 26/05/2023
Maldorky – Havilah Resources Limited www.havilah-resources.com.au	Magnetite (Fe ₃ O ₄)	Assessment	147 Mt (ind.) at 30.1% Fe <i>ASX Release 10/6/11</i>	<44 247 000 t Fe (MRD estimate)
Muster Dam – Magnetite Mines Limited	Magnetite (Fe ₃ O ₄)	JORC Resource	1.5 Bt magnetite at 15.2% Fe DTR <i>ASX Release 24/11/11</i>	<159 000 000 t Fe (magnetite) (MRD estimate)
Crocker Well – Sinosteel Uranium SA Pty Ltd	Uranium (U ₃ O ₈)	JORC Resource	18.84 Mt (ind. & inf.) at 0.03% U ₃ O ₈ 250 000t (inf.) at 0.16% U ₃ O ₈	5290 t U ₃ O ₈
Gould's Dam – Boss Energy Ltd www.bossenergy.com	Uranium (U ₃ O ₈)	JORC Resource	22.1 Mt (ind and inf) at 510 ppm eU ₃ O ₈ <i>ASX release 01/04/2016</i>	11 340 t U ₃ O ₈ <i>ASX release 8/04/16</i>
Junction Dam – Marmota Limited www.marmota.com.au	Uranium (U ₃ O ₈)	JORC Resource	Inferred: 4.36 Mt at 557 ppm U ₃ O ₈ <i>ASX Release 20/02/12</i>	Resource (inferred): 2,550 t contained U ₃ O ₈ <i>ASX Release 20/02/12</i>
Samphire – Alligator Energy Ltd	Uranium (U ₃ O ₈)	Assessment	11.4 Mt at 720ppm U ₃ O ₈ (250ppm U ₃ O ₈ cut-off grade) <i>ASX release 02/03/23</i>	Blackbush deposit resource: 8,200 t U ₃ O ₈ <i>ASX release 02/03/23</i>
Atacama – Iluka (Eucla Basin) Pty Ltd www.iluka.com	Heavy minerals (HM)	Assessment	93.0 Mt (inf.) at 8.2 % HM, 7.63 Mt in-situ HM, 13% zircon, 2% rutile, 69% ilmenite <i>ASX Release 20/02/2017</i>	7 626 000 t HM, 1 442 210 t zircon, 152 520 t rutile, 1 006 020 t ilmenite (MRD estimate)
Sonoran – Iluka Resources Limited www.iluka.com	Heavy minerals (HM)	Feasibility Studies	27.5 Mt material at 7.2% HM for 2 Mt in-situ HM at 22.9% zircon, 66.1% ilmenite, 2.4% rutile & 0.24% monazite + xenotime. <i>Annual Report 31/12/22</i>	1,986,000 t in-situ HM containing 559,400 t zircon, 1,615,800 t ilmenite, 58,900 t rutile & 5,900 t monazite + xenotime. Calculated from Annual Report 31/12/22

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Tripitaka – Iluka (Eucla Basin) Pty Ltd www.iluka.com	Heavy minerals (HM)	JORC Resource	53.7 Mt (measured) at 1.9% HM, containing 65% zircon, 5% rutile, 11% ilmenite & 0.2% monazite + xenotime. <i>Annual Report 31/12/22</i>	1 Mt in-situ HM containing 650,000 t zircon, 111,000 t ilmenite, 50,000 t rutile & 2,000 t monazite + xenotime. Calculated from Annual Report 31/12/22
Typhoon – Iluka Resources Limited www.iluka.com	Heavy minerals (HM)	Feasibility Studies	23.7 Mt (measured) at 6.3% HM, containing 13% zircon, 1% rutile, 63% ilmenite and 0.2% monazite + xenotime <i>Annual Report 31/12/22</i>	1.5 Mt in-situ HM (measured) containing 195,000 t zircon, 15,000 t rutile, 945,000 t ilmenite & 3,000 t monazite + xenotime Calculated from Annual Report 31/12/22
Bird-in-Hand – Terramin Australia Limited www.terramin.com.au	Gold (Au)	JORC Resource	650,000 t at 12.6 g/t Au and 5.8 g/t Ag <i>ASX release 30/10/18</i> Ore Reserve 377,000 t at 13 g/t Au and 6.9 g/t Ag <i>ASX release 23/06/20</i>	Resource: 265,000 oz Au and 122,000 oz Ag <i>ASX release 30/10/18</i> Reserve: 158,000 oz Au and 84,000 oz Ag <i>ASX release 23/06/20</i>
Wudinna – Cobra Resources Plc / Andromeda Metals Limited www.cobraplc.com	Gold (Au), Rare Earth Elements (REE)	JORC Resource	Gold: 5.81 Mt at 1.5 g/t Au (Barns, Baggy Green, Clarke & White Tank) REE: 41.6 Mt at 699 ppm TREO (Clarke & Baggy Green) <i>LSE release 07/09/2023</i>	Total resources: 279,000 oz Au & 29,000 t REE <i>LSE release 07/09/2023</i>
Tunkillia – Barton Gold Holdings Ltd www.bartongold.com.au	Gold (Au)	Feasibility Studies	223 Deposit: 46.3 Mt at 0.93 g/t Au Area 51 Deposit: 4.98 Mt at 0.72 g/t Au <i>ASX Announcement 04/03/24</i>	Total Resource: 1,493,000 oz contained Au <i>ASX Announcement 04/03/24</i>
Wilcherry Weednanna Project – Alliance (SA) Pty Ltd www.allianceresources.com.au Tyranna Resources Limited	Gold (Au), Magnetite (Fe ₃ O ₄)	Assessment	1.1 Mt at 4.3 g/t Au 1.15 Mt at 59.4% Fe <i>ASX release 6/09/18 Iron resource Feb 2021</i>	152,000 oz Au
Flinders – Perilya Freehold Mining Pty Ltd www.perilya.com.au	Zinc (Zn)	JORC Resource	Reliance 308 000 t at 27.9% Zn and 1.5% Pb North Moolooloo (ind.) 214 000 t (ind.) at 34.36% Zn and 1.35% Pb	73 500 t Zn
Menninnie Dam – Terramin Australia Limited www.terramin.com.au	Lead (Pb), Zinc (Zn), Silver (Ag)	JORC Resource	7.7 Mt (inf.) at 3.1% Zn, 2.6% Pb and 27 g/t Ag	238 700 t Zn, 200 200 t Pb and 6 684 140 oz Ag (MRD estimate)
Paris – Investigator Resources Limited www.investres.com.au	Silver (Ag), Lead (Pb)	Feasibility Studies	24 Mt at 73 g/t Ag and 0.41% Pb at 25 g/t silver cut-off <i>ASX Release 05/07/23</i>	Resource: 57,000,000 Oz Ag and 99,000 t Pb <i>ASX release 05/07/23</i>
Elizabeth Creek – Coda Minerals Ltd www.codaminerals.com	Copper (Cu), Cobalt (Co), Silver (Ag), Zinc (Zn)	Feasibility Studies	Resources: Emmie Bluff: 43.3 Mt at 1.3% Cu, 470ppm Co, 11 g/t Ag, 0.15% Zn; MG14: 1.83Mt at 1.24% Cu, 334ppm Co, 14g/t Ag (1.67% CuEq); Windabout: 17.67Mt at 0.77% Cu, 492ppm Co, 8g/t Ag (1.4% CuEq) <i>ASX release 20/12/21</i>	Total resources: 720,700 t Cu, 29,300 t Co, 20,866,000 oz Ag and 66,000 t Zn <i>ASX release 20/12/21</i>
Mutooroo – Havilah Resources Limited www.havilah-resources.com.au	Copper (Cu), Cobalt (Co), Gold (Au)	Feasibility Studies	13.1 Mt at 1.49% Cu, 0.19 g/t Au and 0.15% Co <i>ASX Release 15/06/20</i>	Inferred Resource: 195,000 t Cu, 20,200 t Co and 82,100 oz Au <i>ASX Release 15/06/20</i>
Oakdale – OAR Resources https://oarresources.com.au/	Graphite	JORC Resource	6.22 Mt (ind. & inf.) at 4.8% TGC <i>ASX Release 27/10/15</i>	298 560 t graphitic carbon
Koppamurra – Australian Rare Earths Limited ar3.com.au	Rare Earth Elements (REE)	Feasibility Studies	186 Mt at 712 ppm TREO <i>ASX Release 19/09/2023</i>	Resource: 132,400 t TREO <i>ASX Release 19/09/2023</i>
Great White – Andromeda Metals Limited www.andromet.com.au	Kaolin, Halloysite	Approved	34.6 Mt 'bright white' kaolinised granite ISO brightness(R457) cut-off 75, yielding 17.4 Mt (-45 micron recovery) kaolin, incl. halloysite zone (15.9Mt) and an Ultra Bright high-purity kaolin zone (1.2Mt) <i>ASX release 26/11/2020</i> Ore Reserve 12.5 Mt contained material. 52% -45 micron (15% halloysite, 78% kaolin) <i>ASX release 10/07/20</i>	Resource: 17.4 Mt <i>ASX release 26/11/20</i> Reserve: 12.5 Mt <i>ASX release 10/07/20</i>
Hammerhead – Andromeda Metals Limited www.andromet.com.au www.minotaurexploration.com.au	Kaolin, Halloysite	JORC Resource	Inferred resource 51 Mt bright white kaolinised granite (R457 cut-off 75, -45um recovery) <i>ASX Release 29/09/2020</i>	27.1 Mt -45um kaolin incl. 4.7 Mt high halloysite-kaolin

Blank fields indicate parameters that have not been published by the company

*Expansion studies underway

** Annual production published in company reports or reported to DEM if not published

Further information and contacts:

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