

14th June 2022



Corporate Details

Zenith Minerals Limited (ASX:ZNC)
ABN: 96 119 397 938

Issued Shares	343.9M
Unlisted options	14.3M
Mkt. Cap. (\$0.37)	A\$127M
Cash (31 st Mar 22)	A\$9.3M
Equities (31 st Mar 22)	A\$14.2M
Debt	Nil

Directors

David Ledger	Executive Chairman
Michael Clifford	Managing Director
Stan Macdonald	Non-Exec Director
Julian Goldsworthy	Non-Exec Director
Emma Scotney	Non-Exec Director
Nic Ong	Co Sec
Nick Bishop	CFO

Major Shareholders

Directors	3.4%
HSBC Custody Nom.	8.7%
Citicorp Nom	8.3%
BNP Paribas Nom	6.2%
EV Metals Group	2.9%

Our Vision

Zenith has a vision to maximise shareholder value through superior project generation and exploration activities.

Focus is on 100% owned Zenith projects, whilst partners progress multiple additional opportunities.

Contact Us

Level 2, 33 Ord Street
WEST PERTH WA 6005
PO Box 1426
WEST PERTH WA 6872
Telephone: (08) 9226 1110
Email: info@zenithminerals.com.au
Web: www.zenithminerals.com.au

FURTHER HIGH-GRADE GOLD AT DULCIE FAR NORTH - SPLIT ROCKS PROJECT

- The Board of Zenith Minerals Limited (ASX: ZNC) (“Zenith” or “the Company”) is very pleased to report new high-grade drill results from one of its existing gold projects, Split Rocks, located in Western Australia.
- New results from 17 holes from the Dulcie Far North area show strong gold grades extending into fresh rock beneath near surface gold zones outlined in recent AC/slimline-Reverse Circulation (RC) drilling reported earlier this year.
- Significant new high-grade gold results, include:
 - 7m @ 7.8 g/t Au incl 5m @ 10.6 g/t Au
 - 5m @ 7.4 g/t Au and 9m @ 2.0 g/t Au
 - 8m @ 4.2 g/t Au incl 3m @ 10.7 g/t Au
 - 5m @ 4.9 g/t Au incl 2m @ 11.3 g/t Au
 - 6m @ 2.8 g/t Au incl 2m @ 7.3 g/t Au
 - 16m @ 1.4 g/t Au incl 2m @ 8.5 g/t Au
 - 14m @ 1.3 g/t Au incl 1m @ 9.3 g/t Au
 - 15m @ 1.2 g/t Au incl 4m @ 3.5 g/t Au.
- New results are in addition to those released late last year and earlier this year for Dulcie Far North (ASX Releases 30-Sep-21 & 18-Jan-22), that included:
 - 4m @ 10.2 g/t Au (eoh), incl 2m @ 19.8 g/t Au (eoh)
 - 12m @ 2.9 g/t Au
 - 9m @ 1.8 g/t Au incl 2m @ 6.2 g/t Au
 - 8m @ 1.8 g/t Au, incl 4m @ 3.1 g/t Au
 - 8m @ 1.7 g/t Au, incl 4m @ 2.8 g/t Au
- Assay results for a further 11 RC holes from the adjoining Dulcie North, Scott's Grey, Water Bore & Scott's Grey prospects are still awaited.
- Results are also awaited for 3 diamond core holes that were drilled at the Dulcie Laterite Pit zone. The diamond core will provide material for ongoing metallurgical testwork, including column leaching.
- These new gold results are in addition to the announcement in January this year, that Zenith is focusing on lithium backed by a joint venture with the EV Metals Group (EVM) – ASX Release 13-Jan-22.

Commenting on the Split Rocks drill results, Managing Director Mick Clifford said: “RC drilling at Dulcie Far North has returned very encouraging high-grade gold results in fresh rock. The drilling was designed to test beneath

oxide gold zones, that extend over some 1km in strike, defined by earlier more shallow drilling, using lower powered equipment. Additional RC drilling is now warranted to scope out the extents of these high-grade gold zones.”

Split Rocks Project - Background on Gold Potential

A major targeting exercise by the Company’s geological team initially identified 12 high-quality gold drill targets at Split Rocks, subsequently expanded to 18 targets in the north-eastern sector of the Company’s project area (refer to ZNC ASX Release 2-Sept-20).

Drilling to date has tested 14 targets with outstanding first pass results returned at 6 prospects (ASX Releases 5-Aug-20, 2-Sep-20, 19-Oct-20, 28-Oct-20, 15-Jan-21, 11-Mar-21, 21-Apr-21, 24-Jun-21, 13-Jul-21, 30-Sep-21, 18-Jan-22):

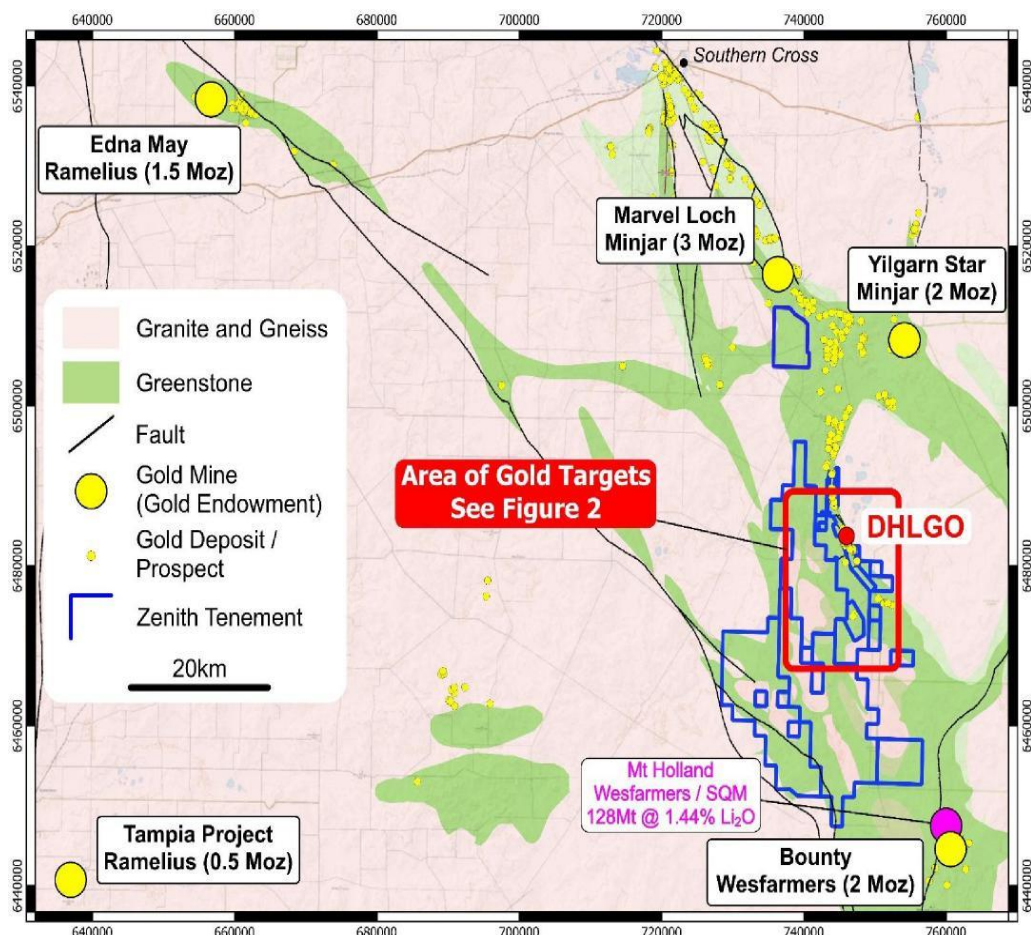
- Dulcie North: 32m @ 9.4 g/t Au, incl 9m @ 31.4 g/t Au
- Dulcie Laterite Pit: 2m @ 14.5 g/t Au, incl. 1m @ 20.8 g/t Au, 18m @ 2.0 g/t Au (EOH) incl. 1m @ 23.7 g/t Au, 14m @ 3.5 g/t Au, 3m @ 17.9 g/t Au
- Estrela Prospect: 2m @ 9.8 g/t Au
- Dulcie Far North: 5m @ 5.6 g/t Au incl. 4m @ 6.8 g/t Au, 4m @ 10.2 g/t Au
- Water Bore: 3m @ 6.6 g/t Au
- Scott’s Grey: 8m @ 4.1 g/t Au, 12m @ 1.7 g/t Au

New results from the first 19 RC holes of a 30-hole program at Split Rocks have now been received. New assay results from the first 17 holes from the Dulcie Far North area show strong gold grades extending into fresh rock beneath those zones outlined in AC/slimline RC reported earlier this year (ASX Release 18-Jan-22) - refer to Figures 2 – 4 and Tables 1 & 2. High-grade-gold mineralisation at Dulcie Far North occurs in moderately west dipping zones and is associated with sheared mafic rocks with variable alteration and quartz veining typically 2-10% (up to a maximum of 90% quartz associated with one mineralised interval). Additional drilling is required to assess the continuity of and extents of mineralisation beyond the 1km of strike defined to date.

Assay results for a further 11 RC holes from the adjoining Dulcie North, Scott’s Grey, Water Bore & Scott’s Grey prospects are still awaited, whilst 2 holes at Estrela returned no significant results.

Note Zenith retains gold rights at Dulcie Far North, Dulcie North, Dulcie Laterite Pit Zone and Scott’s Grey below 6m, subject to the Dulcie option agreement (refer to ASX Release 21-Mar-19).

Figure 1: Split Rocks Project Location Map Showing Zenith tenements, Dulcie Heap Leach Gold Operation (DHLGO) Prospect and Regional Gold Endowment. (*Gold rights below 6m subject to option agreement).



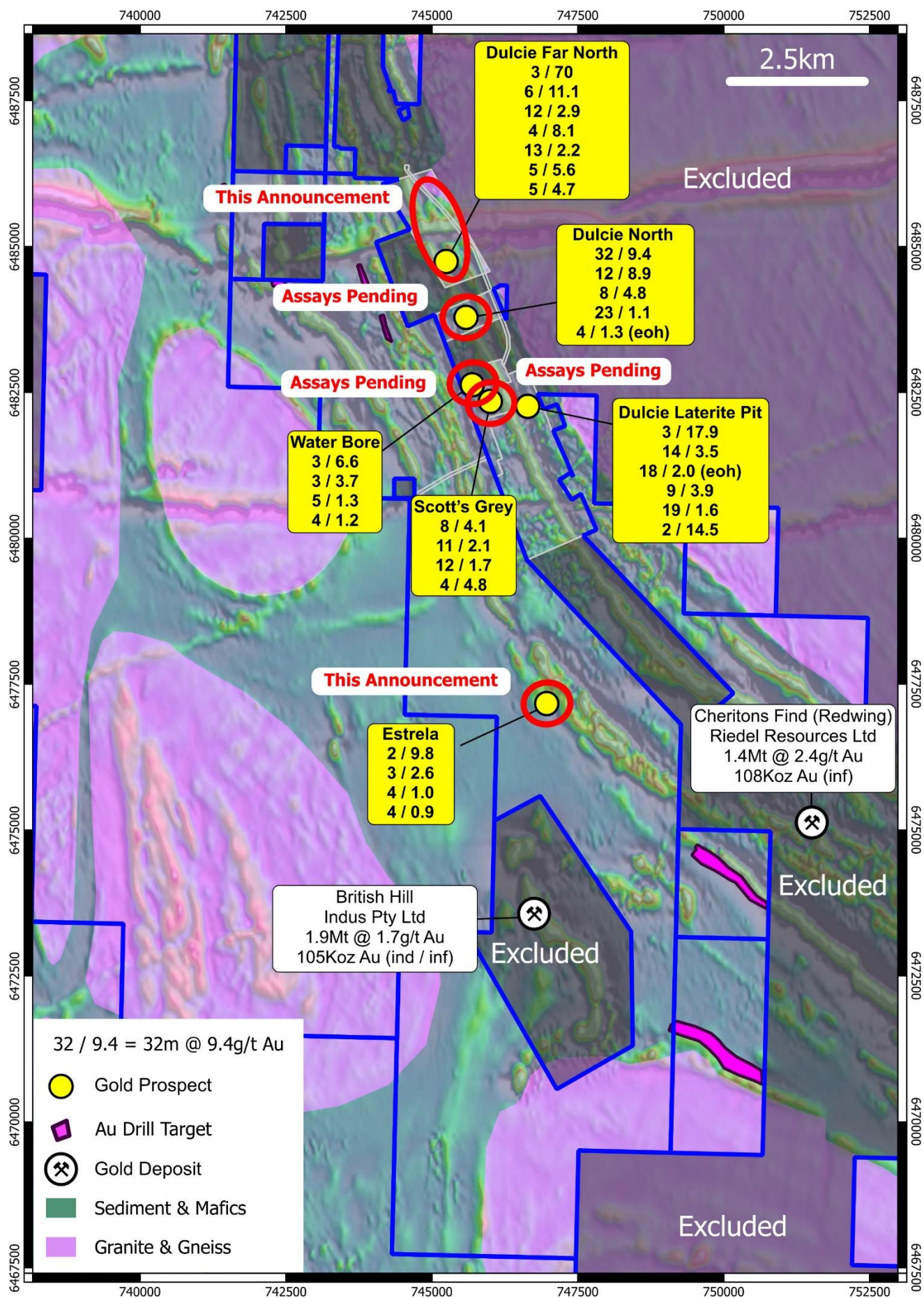


Figure 2: Split Rocks Project Gold Targets and Significant RC - Aircore Drill Results (yellow captions) showing gold drill targets, and areas of Recent Drilling

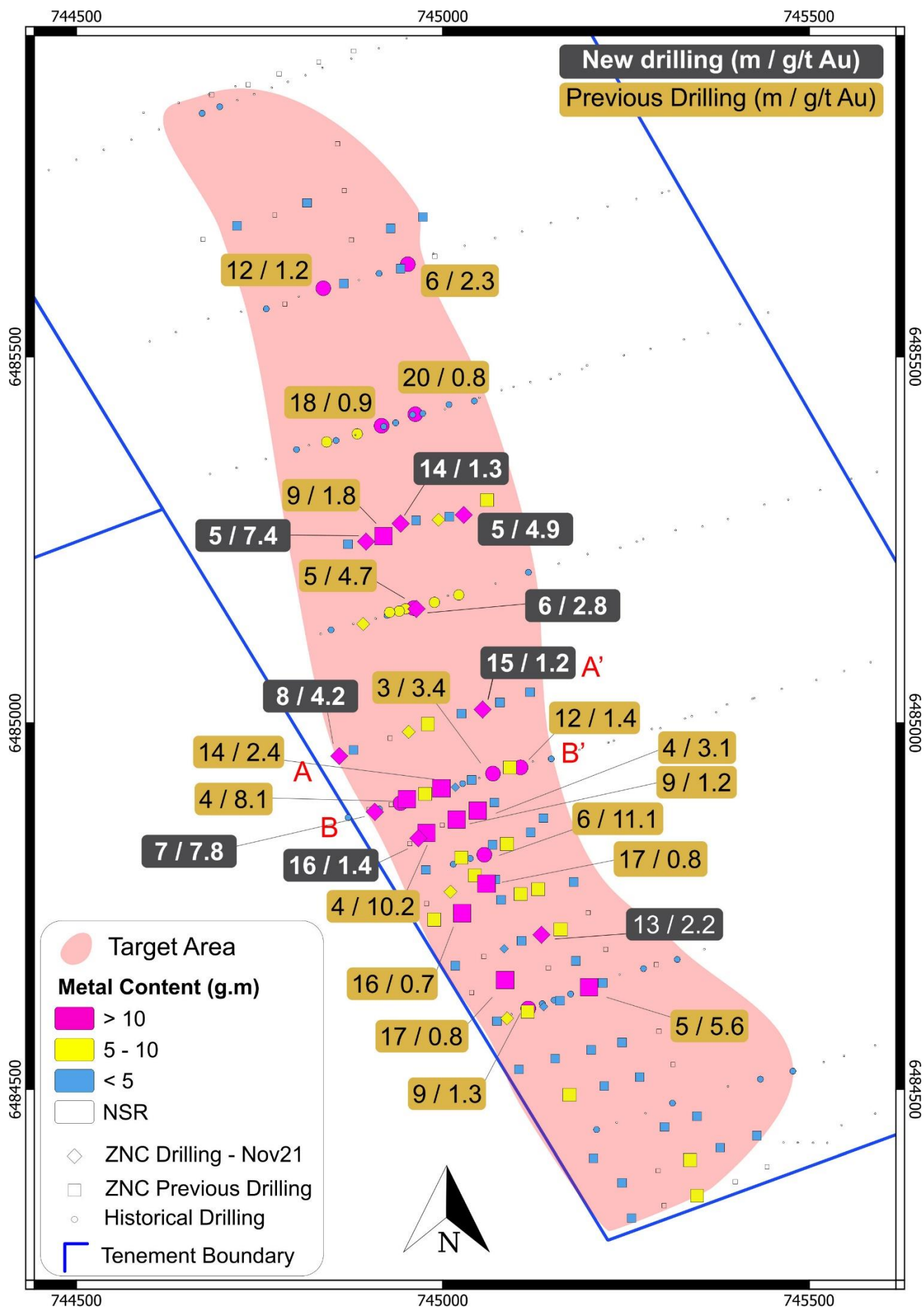


Figure 3: Dulcie Far North Plan Showing Significant Gold Drilling Results

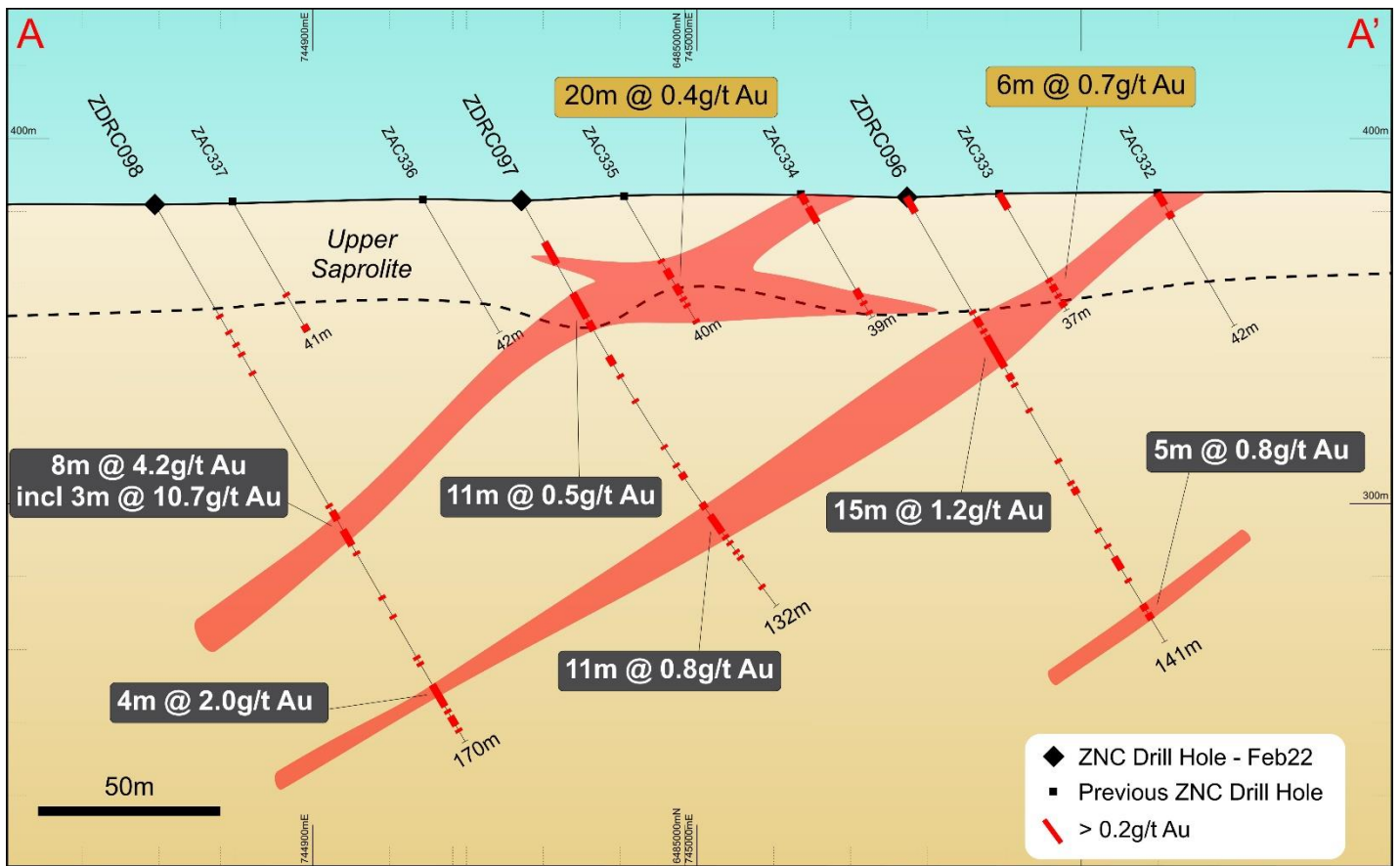


Figure 4: Dulcie Far North Cross Section A-A' Showing Significant Gold Drilling Results

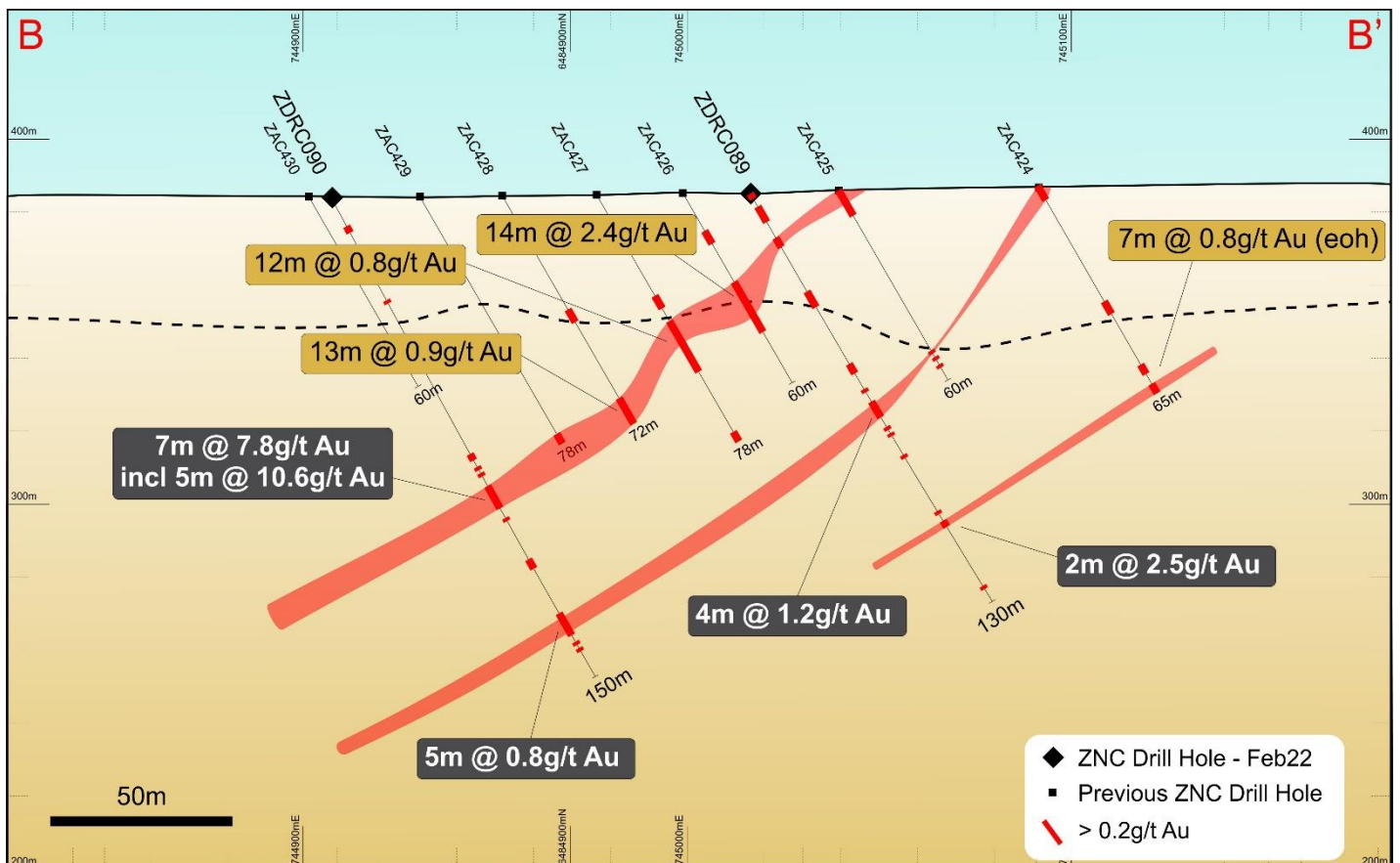


Figure 5: Dulcie Far North Cross Section B-B' Showing Significant Gold Drilling Results

Table 1: Split Rocks Significant Drill Results

Prospect	Hole ID	From (m)	To (m)	Interval (m)	Au (g/t)
Dulcie Far North	ZDRC087	46	52	6	2.8
	incl	46	48	2	7.3
	and	50	51	1	1.1
	and	63	66	3	1.0
	incl	65	66	1	2.5
	and	69	70	1	0.6
	ZDRC088	76	90	14	0.7
	incl	76	77	1	2.1
	and incl	83	84	1	1.5
	and incl	86	88	2	1.1
	and	102	103	1	0.4
	and	110	112	2	1.1
	incl	110	111	1	1.7
	and	115	117	2	0.5
	and	131	133	2	0.8
	incl	131	132	1	1.2
	ZDRC089	4	9	5	1.0
	incl	6	7	1	2.3
	and	15	17	2	1.1
	and	32	35	3	0.6
	incl	34	35	1	1.0
	and	67	71	4	1.2
	incl	67	68	1	1.7
	and incl	69	70	1	1.7
	and	104	106	2	2.5
	incl	104	105	1	4.1
	ZDRC090	10	11	1	1.2
	and	81	82	1	0.4
	and	90	97	7	7.8
	incl	91	96	5	10.6
	and	113	115	2	1.2
	incl	113	114	1	1.8
	and	131	136	5	0.8
	incl	135	136	1	1.6
	ZDRC091	50	66	16	1.4
	incl	51	53	2	8.5
	and incl	65	66	1	1.9
	and	72	73	1	1.4
	and	96	97	1	1.6
	and	113	114	1	0.7
	and	128	129	1	0.6
	ZDRC092	30	31	1	1.0
	and	40	44	4	0.8
	incl	40	42	2	1.2
	and	49	56	7	0.4

Prospect	Hole ID	From (m)	To (m)	Interval (m)	Au (g/t)
	and	64	69	5	4.9
	incl	64	66	2	11.3
	ZDRC093	33	47	14	0.5
	incl	33	35	2	1.1
	and incl	45	46	1	1.6
	and	79	80	1	0.6
	ZDRC094	24	38	14	1.3
	incl	24	25	1	1.2
	and incl	30	31	1	9.3
	and incl	35	36	1	4.3
	and	44	45	1	0.5
	and	50	56	6	0.4
	incl	55	56	1	1.3
	and	64	74	10	0.3
	and	97	98	1	0.5
	ZDRC095	31	33	2	2.1
	and	39	40	1	1.3
	and	47	52	5	7.4
	and	57	66	9	2.0
	incl	57	59	2	6.4
	and incl	65	66	1	3.6
	and	85	86	1	0.5
	and	93	94	1	1.3
	and	102	103	1	0.5
	ZDRC096	0	4	4	1.2
	incl	0	3	3	1.4
	and	38	53	15	1.2
	incl	39	40	1	1.2
	and incl	49	53	4	3.5
	and	59	60	1	0.8
	and	83	84	1	1.6
	and	90	94	4	0.4
	and	129	134	5	0.8
	incl	132	133	1	2.6
	ZDRC097	18	20	2	2.4
	and	30	41	11	0.5
	incl	40	41	1	1.2
	and	49	56	7	0.5
	incl	49	50	1	1.9
	and	63	64	1	0.7
	and	88	89	1	0.5
	and	98	109	11	0.8
	incl	102	103	1	3.7
	and incl	105	106	1	1.4
	ZDRC098	53	54	1	0.5
	and	99	107	8	4.2

Prospect	Hole ID	From (m)	To (m)	Interval (m)	Au (g/t)
	incl	103	106	3	10.7
	and	124	125	1	0.5
	and	143	144	1	2.9
	and	152	156	4	2.0
	incl	152	155	3	2.5
	and	166	167	1	0.5
	ZDRC099	46	59	13	0.6
	incl	51	52	1	1.1
	and incl	56	58	2	2.2
	and	95	96	1	1.4
	and	116	117	1	1.8
	and	133	134	1	1.6
	ZDRC100	42	55	13	2.2
	incl	42	46	4	6.0
	and incl	54	55	1	1.1
	and	99	117	18	0.4
	incl	107	108	1	1.2
	ZDRC101	32	33	1	0.4
	and	76	78	2	1.3
	ZDRC102	0	2	2	0.8
	and	14	16	2	0.5
	and	65	67	2	1.5
	and	88	89	1	3.1
	and	125	126	1	0.4
	ZDRC103	33	38	5	1.2
	incl	34	35	1	1.2
	and incl	36	38	2	1.9
	and	47	51	4	1.0
	incl	47	48	1	1.4
	and incl	49	50	1	1.6
	and	58	59	1	3.8
	and	95	96	1	3.8
	and	100	101	1	1.4
Estrela	ZVRC012	NSR			
	ZVRC013	NSR			
Laterite Pit South	ZDRC104	Assays Pending			
Scott's Grey	ZDRC105	Assays Pending			
	ZDRC106				
	ZDRC107				
Waterbore	ZDRC108	Assays Pending			
	ZDRC114				
Dulcie North	ZDRC109	Assays Pending			
	ZDRC110				
	ZDRC111				
	ZDRC112				
	ZDRC113				

Table 2: Split Rocks Drill Hole Collars

Prospect	Hole ID	Hole Type	Easting	Northing	RL	Depth (m)	Azimuth	Dip
Dulcie Far North	ZSRRC087	RC	744964	6485156	381	138	73	-60
	ZSRRC088	RC	744891	6485135	380	150	73	-60
	ZSRRC089	RC	745017	6484912	385	130	73	-60
	ZSRRC090	RC	744907	6484879	384	150	73	-60
	ZSRRC091	RC	744967	6484843	384	140	73	-60
	ZSRRC092	RC	745029	6485284	379	120	73	-60
	ZSRRC093	RC	744994	6485277	378	100	73	-60
	ZSRRC094	RC	744943	6485272	378	120	73	-60
	ZSRRC095	RC	744895	6485248	378	108	73	-60
	ZSRRC096	RC	745055	6485019	384	141	73	-60
	ZSRRC097	RC	744954	6484988	383	132	73	-60
	ZSRRC098	RC	744859	6484955	382	170	73	-60
	ZSRRC099	RC	745011	6484770	381	150	73	-60
	ZSRRC100	RC	745135	6484711	389	126	73	-60
	ZSRRC101	RC	745084	6484692	387	120	73	-60
	ZSRRC102	RC	745138	6484613	386	130	73	-60
	ZSRRC103	RC	745088	6484597	388	130	73	-60
Estrela	ZVRC012	RC	746903	6477091	420	150	-90	-
	ZVRC013	RC	746976	6477159	418	150	-90	-
Laterite Pit South	ZDRC104	RC	746987	6480988	396	150	73	-60
Scott's Grey	ZDRC105	RC	745998	6482429	411	180	73	-60
	ZDRC106	RC	746033	6482589	408	150	73	-60
	ZDRC107	RC	746035	6482629	408	150	73	-60
Water Bore	ZDRC108	RC	745580	6482574	400	130	80	-60
	ZDRC114	RC	745638	6482532	400	100	80	-60
Dulcie North	ZDRC109	RC	745715	6483781	399	120	163	-60
	ZDRC110	RC	745603	6483834	395	120	73	-60
	ZDRC111	RC	745493	6483957	393	120	73	-60
	ZDRC112	RC	745448	6483942	394	140	73	-60
	ZDRC113	RC	745399	6483928	394	160	73	-60

ABOUT ZENITH

Zenith Lithium Joint Venture

Zenith is transitioning to become a pure lithium company to refocus on minerals containing lithium and related metals required for rechargeable lithium-ion batteries for electric vehicles and renewable energy storage (“Battery Minerals”), supported by a new alliance with the EV Metals Group (EVM), as detailed in ASX Release 13-Jan-22. Key commercial terms of the Zenith Lithium Joint Venture with EVM include:

- EVM may earn a 60% interest in the lithium rights in two initial 100% owned Zenith projects, namely Waratah Well and Split Rocks (Figure 1), by sole funding the completion of a feasibility study within 24 months, with Zenith retaining a 40% project share.
- On and from completion of a feasibility study, Zenith and EVM will form a joint venture in respect of the project lithium rights. EVM will sole fund expenditure to a decision to mine, following which the parties will be required to fund future joint venture expenditure in accordance with their respective percentage shares.
- EVM must arrange all financing for the development, construction and commissioning of any future mine including Zenith’s share. Zenith must repay its proportionate share of the project finance including interest from the sale of its proportionate share of minerals produced.
- EVM will spend a minimum of A\$7M on exploration on the projects, within 24 months, before being able to voluntarily withdraw provided that if EVM does not complete a feasibility study within 24 months it will be deemed to have withdrawn and will not earn an interest in the project lithium rights.
- The agreement includes a joint venture over Zenith’s Split Rocks and Waratah Well projects in Western Australia, as well as a non-exclusive right to bring additional projects to the joint venture by either party, to explore for lithium/EV metals.
- In addition, EVM or its nominees subscribed for 20,000,000 ordinary ZNC shares @ \$0.30 cents per share (representing a premium of 20% above the then VWAP for ZNC shares for the preceding 10 Business Days) raising A\$6M (Placement), with funds applied to source new lithium opportunities, near term advancement of its gold and base metals portfolio and working capital (ASX Release 19-Jan-22).

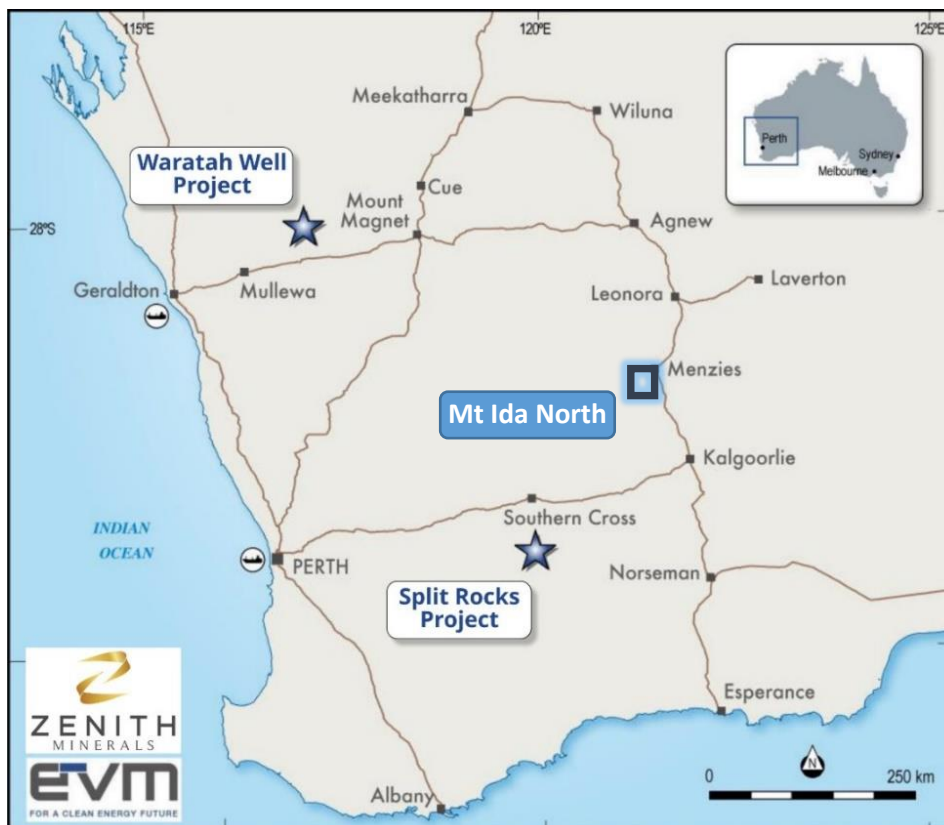


Figure 1: Zenith Lithium Joint Venture - Project Locations (stars) and Alliance Project (square)

Australian Lithium Alliance

Zenith and EV Metals Group have also agreed to work together on a non-exclusive basis to assess lithium opportunities in Australia under a strategic initiative referred to herein as the Australian Lithium Alliance (ALA). Zenith and EV Metals Group will each fund their respective share of costs on assessing, exploring and any future development capital on a 40% - 60% basis respectively, with EV Metals Group owning marketing rights to any offtake. Each party will bring to the arrangement their respective technical, financial and management skills to assess lithium opportunities. The Mt Ida North option agreement announced to the ASX on 23-May-22 is being pursued under the ALA partnership.

The ALA is a separate arrangement to the existing Zenith Lithium Joint Venture with EV Metals Group that is detailed below and in ZNC ASX Release dated 13-Jan-22.

Demerger of Gold and Base Metals Assets

To allow the Zenith team to focus on activities to generate Battery Minerals projects, ZNC is planning to demerge the non-Battery Minerals projects, including base metals and gold assets into a new Company that is seeking application to be listed on ASX. Any such demerger will be subject to ZNC Board approval, tax advice favourable to ZNC, as well as shareholder, ASX, ASIC and other regulatory approvals. ZNC shareholders will benefit by way of an in-specie distribution of the shares in the new listed Company. Further updates and information on the Demerger will be provided by Zenith in due course.

Competent Persons Statement

The information in this report that relates to Exploration Results and Mineral Resources is based on information compiled by Mr Michael Clifford, who is a Member of the Australian Institute of Geoscientists and an employee of Zenith Minerals Limited. Mr Clifford has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Clifford consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

Material ASX Releases Previously Released

The Company has released all material information that relates to Exploration Results, Mineral Resources and Reserves, Economic Studies and Production for the Company's Projects on a continuous basis to the ASX and in compliance with JORC 2012. The Company confirms that it is not aware of any new information that materially affects the content of this ASX release and that the material assumptions and technical parameters remain unchanged.

Authorised for release by the Zenith Minerals Limited Board of Directors – 14th June 2022

For further information contact Zenith Minerals Limited:

Executive Chairman: David Ledger or Managing Director: Michael Clifford

E: info@zenithminerals.com.au

Phone +61 8 9226 1110

Zenith Minerals Limited (ASX:ZNC)

Zenith has a vision to maximise shareholder value through superior project generation and exploration activities.

Key Australian gold and base metal projects include:

Earaheedy	Zinc	Western Australia	25% free carry to BFS
------------------	-------------	--------------------------	------------------------------

New major zinc discovery to be fast tracked with extensive accelerated exploration program underpinned by a recent \$40M capital raising by partner Rumble Resources Limited (ASX:RTR) (ASX Releases 28-Apr-21, 2-Jun-21, 8-Jun-21, 18-Oct-21, 13-Dec-21, 21-Dec-21, 31-Jan-22, 7-Feb-22, 21-Feb-22, 9-Mar-22, 26-May22).

Develin Creek	Copper - Zinc	Queensland	100% Owned
----------------------	----------------------	-------------------	-------------------

Inferred Mineral Resource 2.57Mt @ 1.76% Cu, 2.01% Zn, 0.24g/t Au & 9.6g/t Ag (ASX Release 15-Feb-15). Massive sulphides intersected at 2 new prospects Wilsons North & Snook.

Sulphide City (ASX Release 5-Jul-21).	34m @ 3.5% Cu+Zn incl 10m @ 6.0% Cu+Zn	29m @ 3.5% Cu+Zn incl 12.3m @ 6.7% Cu+Zn
---------------------------------------	---	---

Red Mountain	Gold	Queensland	100% Owned
---------------------	-------------	-------------------	-------------------

Drilling is following-up the high-grade near surface gold and silver intersected in the maiden & subsequent drill programs (ASX Releases 3-Aug-20 & 13-Oct-20, 9-Nov-20, 21-Jan-21, 19-May-21).

Results incl:	13m @ 8.0 g/t Au	15m @ 3.5 g/t Au
	5m @ 10.4 g/t Au	12m @ 4.9 g/t Au

Split Rocks	Gold	Western Australia	100% Owned
--------------------	-------------	--------------------------	-------------------

Zenith drilling returned - high-grade near surface gold mineralisation at multiple targets (ASX Release 5-Aug-20, 2-Sep-20, 19-Oct-20, 28-Oct-20, 15-Jan-21, 11-Mar-21, 21-Apr-21, 24-Jun-21, 30-Sep-21, 18-Jan-22). Results include:

Dulcie North	32m @ 9.4 g/t Au, incl 9m @ 31.4 g/t Au	16m @ 1.3 g/t Au
Dulcie Laterite Pit	2m @ 14.5 g/t Au	18m @ 2.0 g/t Au
	14m @ 3.5 g/t Au	
Estrella	2m @ 9.8 g/t Au	
Dulcie Far North	5m @ 5.6 g/t Au	3m @ 70 g/t Au
Water Bore	3m @ 6.6 g/t Au	
Scotts Grey	8m @ 4.1 g/t Au	4m @ 4.8 g/t Au

Investments



43.9M shares in Bradda Head Holdings Limited (AIM)



3.88M shares in Rumble Resources Limited (ASX:RTR)



2.5M shares in American Rare Earths (ASX:ARR)



0.5M shares in Nickel-X Limited (ASX:NKL)

Section 1 Sampling Techniques and Data for Zenith Aircore Drilling

(Criteria in this section apply to all succeeding sections.)

Criteria	JORC Code explanation	Commentary
Sampling techniques	<i>Nature and quality of sampling (e.g. cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma sondes, or handheld XRF instruments, etc.). These examples should not be taken as limiting the broad meaning of sampling.</i>	1m RC drill samples were collected at depths ranging from 0 to 180m depth. Samples were collected via a cyclone.
	<i>Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.</i>	Samples are representative of the intervals sampled.
	<i>Aspects of the determination of mineralisation that are Material to the Public Report. In cases where 'industry standard' work has been done this would be relatively simple (e.g. 'reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay'). In other cases more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (e.g. submarine nodules) may warrant disclosure of detailed information.</i>	RC drilling was used to obtain 1m samples from which ~2 kg was pulverised with analysis for gold by 50g fire assay with AAS finish
Drilling techniques	<i>Drill type (e.g. core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc.) and details (e.g. core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or other type, whether core is oriented and if so, by what method, etc.).</i>	RC drilling
Drill sample recovery	<i>Method of recording and assessing core and chip sample recoveries and results assessed.</i>	Samples were visually assessed in the field
	<i>Measures taken to maximise sample recovery and ensure representative nature of the samples.</i>	RC drilling ensured good recoveries through-out the drill program, holes that ended in high-water ingress were terminated to ensure adequate sample recovery.
	<i>Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material.</i>	Acceptable overall sample recoveries through-out drill program; no bias likely.
Logging	<i>Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies.</i>	All drill samples were logged by a qualified geologist and descriptions recorded in a digital data base.

	<i>Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc.) photography.</i>	Qualitative logging, representative sample retained for each drill metre.
	<i>The total length and percentage of the relevant intersections logged.</i>	100%
<i>Sub-sampling techniques and sample preparation</i>	<i>If core, whether cut or sawn and whether quarter, half or all core taken.</i>	No core
	<i>If non-core, whether riffled, tube sampled, rotary split, etc. and whether sampled wet or dry.</i>	Cone splitter
	<i>For all sample types, the nature, quality and appropriateness of the sample preparation technique.</i>	Samples were analysed at Nagrom Laboratories in Perth, ~2 kg was crushed and pulverised and a representative subsample was analysed for gold by 50g fire assay with AAS finish.
	<i>Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.</i>	~200g of sample was pulverised and a sub-sample was taken in the laboratory and analysed.
<i>Sub-sampling techniques and sample preparation - continued</i>	<i>Measures taken to ensure that the sampling is representative of the in situ material collected, including for instance results for field duplicate/second-half sampling.</i>	Duplicate samples were taken in the field (using a riffle splitter) and analysed as part of the QA/QC process
	<i>Whether sample sizes are appropriate to the grain size of the material being sampled.</i>	Each sample was approximately 2kg in weight which is appropriate to test for the grain size of material sampled.
<i>Quality of assay data and laboratory tests</i>	<i>The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.</i>	Samples were analysed at Nagrom Laboratories in Perth, 2 kg was pulverised and a representative subsample was analysed for gold by 50g fire assay with AAS finish.
	<i>For geophysical tools, spectrometers, handheld XRF instruments, etc., the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc.</i>	No geophysical tools used in this program.
	<i>Nature of quality control procedures adopted (e.g. standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (i.e. lack of bias) and precision have been established.</i>	Blanks, certified reference material for gold, and duplicate samples were included in the analytical batches and indicate acceptable levels of accuracy and precision.
<i>Verification of sampling and assaying</i>	<i>The verification of significant intersections by either independent or alternative company personnel.</i>	At least 2 Zenith company personnel have been to the prospect area and observed samples and representative drill chip samples
	<i>The use of twinned holes.</i>	Nil
	<i>Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.</i>	Field data were all recorded on paper logs and sample record books and then entered into a database
	<i>Discuss any adjustment to assay data.</i>	No adjustments were made.

Location of data points	Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation.	Sample location is based on GPS coordinates +/-5m accuracy.
	Specification of the grid system used.	The grid system used to compile data was MGA94 Zone 50
Location of data points – continued	Quality and adequacy of topographic control.	Topography control is +/- 10m
Data spacing and distribution	Data spacing for reporting of Exploration Results.	Refer to Figures 2 - 4
	Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied.	There is insufficient information to calculate a mineral resource
	Whether sample compositing has been applied.	Simple weight average mathematical compositing applied
Orientation of data in relation to geological structure	Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.	All Zenith drilling in the Dulcie Project is -60 degrees east and is close to representing true width thickness of the west dipping gold mineralisation, based on the current geological interpretation
	If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material.	No bias based on current interpretation.
Sample security	The measures taken to ensure sample security.	All samples were taken by Zenith personnel on site and retained in a secure location until delivered directly to the laboratory by Zenith personnel.
Audits or reviews	The results of any audits or reviews of sampling techniques and data.	The sampling techniques and data have been reviewed by two company personnel who are qualified as Competent Persons

Section 2 Reporting of Exploration Results

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

Criteria	JORC Code explanation	Commentary
Mineral tenement and land tenure status	Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings.	Zenith announced on the 21 st March 2019 that it has a 2-year option (subsequently extended by a year) to explore for bedrock gold (any gold 6 metres below surface) and lithium mineralisation on tenements covering the operating Dulcie Heap Leach Gold Project (DHLGO) in exchange for surface laterite gold rights on Zenith's adjoining exploration licence E77/2388.

		Zenith may at its sole election exercise the option through the payment of a 2% NSR royalty payable on any future bedrock gold production from the DHLGO project area. The project is located predominantly in vacant crown land.
	<i>The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area.</i>	Tenements are mining leases and prospecting leases, current heap leach operation is active, no known impediments to obtain a licence to operate.
<i>Exploration done by other parties</i>	<i>Acknowledgment and appraisal of exploration by other parties.</i>	Refer to ASX release 21 st March 2019.
<i>Geology</i>	<i>Deposit type, geological setting and style of mineralisation.</i>	Archean mesothermal lode gold mineralisation hosted within banded iron formation (BIF) and mafic rock types.
<i>Drill hole Information</i>	<p><i>A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes:</i></p> <ul style="list-style-type: none"> <i>o easting and northing of the drill hole collar</i> <i>o elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar</i> <i>o dip and azimuth of the hole</i> <i>o down hole length and interception depth</i> <i>o hole length.</i> <p><i>If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should clearly explain why this is the case.</i></p>	Refer to Figures and Tables in body of text of this ASX release.
<i>Data aggregation methods</i>	<p><i>In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (e.g. cutting of high grades) and cut-off grades are usually Material and should be stated.</i></p> <p><i>Where aggregate intercepts incorporate short lengths of high-grade results and longer lengths of low grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail.</i></p>	<p>High-grade intersections are length weighted average grades with minimum cut -off grade of 1.0g/t Au and no internal dilution, whilst lower grade intersections are length weighted average grades with minimum cut-off grade of 0.4g/t Au and maximum internal dilution of 4m.</p> <p>As above and included in Tables</p>
<i>Data aggregation methods - continued</i>	<i>The assumptions used for any reporting of metal equivalent values should be clearly stated.</i>	No metal equivalents used.
<i>Relationship between mineralisation widths and intercept lengths</i>	<p><i>These relationships are particularly important in the reporting of Exploration Results.</i></p> <p><i>If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.</i></p>	<p>Drilling is angled -60 degrees east or vertical and based on current interpretation is thought to be representing true width thickness of the flat lying supergene or gentle west dipping gold mineralised zones however further drilling is required to confirm this interpretation.</p> <p>As above</p>

	<i>If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (e.g. 'down hole length, true width not known').</i>	Mineralised intervals reported are down-hole lengths but are believed to be close to true thickness
<i>Diagrams</i>	<i>Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported. These should include, but not be limited to a plan view of drill hole collar locations and appropriate sectional views.</i>	Refer to Figures and Tables in body of text of this ASX release.
<i>Balanced reporting</i>	<i>Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practiced to avoid misleading reporting of Exploration Results.</i>	Refer to Figures and Tables in body of text of this ASX release.
<i>Other substantive exploration data</i>	<i>Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observations; geophysical survey results; geochemical survey results; bulk samples – size and method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances.</i>	No other meaningful or material exploration data to be reported at this stage.
<i>Further work</i>	<i>The nature and scale of planned further work (e.g. tests for lateral extensions or depth extensions or large-scale step-out drilling).</i>	Follow-up drilling planned.
	<i>Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.</i>	Refer to figures in body of this report.