

## ASX ANNOUNCEMENT

14 February 2024

### Dalgaranga Gold Project – Exploration Update

## VISIBLE GOLD LOGGED 170 METRES BELOW 952,900oz NEVER NEVER RESOURCE

**Deepest hole to date demonstrates substantial high-grade growth potential as drilling continues to deliver exceptional results on multiple fronts**

#### Highlights:

#### Never Never Gold Deposit:

- 20.5m of “typical” Never-Never-style mineralisation, with indicative heavy silicification and biotite-chlorite alteration, logged from 871.5m down-hole in DGDH052 (pending assays), including small specs of visible gold logged at 878.7m down-hole.
- The intercept is located down-plunge and more than 170m below the current 952koz MRE extent, highlighting the exceptional growth potential of the Never Never deposit at depth.
- Additional significant new Never Never assay results include:
  - 25.17m @ 6.59g/t gold from 448.3m down-hole, including:
    - 7.5m @ 13.52g/t – DGDH050 (de-risks key area of high-metal content in MRE)
  - 170.0m @ 4.13g/t gold from surface – DGRC1396 (open-pit to underground metallurgical test-work drill-hole, drilled at 75° dip down-plunge through the Never Never orebody, not true width).

#### Four Pillars Gold Prospect – new high-grade gold intercept:

- 15.0m @ 6.06g/t gold from 358.0m down-hole, including:
  - 3.00m @ 23.65g/t – DGDH046 (outside MRE, deepest assay at Four Pillars to date)

#### Sly Fox Gold Deposit – new high-grade gold intercept:

- 23.83m @ 2.44g/t gold from 379.0m down-hole, including:
  - 5.00m @ 5.23g/t – DGRC1382 (towards base of existing Inferred MRE)

**Note:** Visual estimates of mineral abundance should never be considered a proxy or substitute for laboratory analyses where concentrations or grades are the factor of principal economic interest. Visual estimates also potentially provide no information regarding impurities or deleterious physical properties relevant to valuations. Core processing is currently underway, with assay results expected in early March.



## **Management Comment**

Spartan Managing Director and Chief Executive Officer, Simon Lawson, said: *“At the start of the year, we sat down as a geology team at Dalgaranga to reflect on what had been an absolutely massive 2023 and to discuss the future! What targets did we want to drill, what did the Company need to successfully execute the next stage of its growth strategy, and where did Spartan want to be in 12 months?”*

*“We discussed how establishing almost a million high-grade gold ounces at Never Never while doubling the ounces and tripling the resource grade for the overall project might be a hard act to follow!”*

*“As a group we agreed that we have just scratched the surface of the potential that could exist at Dalgaranga. Given our growing understanding of the mineralising systems and the larger potential we were beginning to see at depth at several key deposits as 2023 drew to a close, for 2024 we are following those leads and keeping our strategy simple.”*

*“Our strategy for 2024 is simple: Drill and de-risk.”*

*“Drilling at the key high-grade Never Never Gold Deposit is targeting more rapid high-grade resource growth by mid-2024, and with our first deep hole already hitting more than 20m of typical highly silicified and altered Never-Never-style mineralisation at 878m down-hole, including specs of visible gold, I'd say we're already well on the way towards achieving that objective!”*

*“We are also drilling to de-risk Never Never by targeting conversion of more than 85% of the current MRE ounces to Indicated classification. This drilling is designed to provide increased grade, volume and metal content confidence to the Spartan engineering team.”*

*“Our drilling and de-risking includes ongoing metallurgical test-work from drill-holes designed and drilled specifically for this purpose. This drilling is yielding crucial information for our ongoing Ore Reserve and Feasibility Study work.”*

*“A recent example is metallurgical drill-hole DGRC1396, drilled inside the Never Never Gold Deposit MRE and potential open pit, which returned a spectacular gold assay of 170m @ 4.13g/t from surface to the footwall contact. This result, while not useful in a resource estimation sense due to its sub-vertical drill angle, gives a useful insight into the down-plunge gold grade variability through any number of open-pit to underground design scenarios for the Never Never Gold Deposit.”*

*“More broadly, we are drilling and de-risking at an operational scale by targeting relatively shallow existing and historic high-grade gold prospects as near-term potential ore feed sources. The Four Pillars and West Winds Gold Prospects continue to yield wide, higher grade drill intercept grades, increasing geological confidence and de-risking open pit scenarios for the former Gilbey's Mine Complex.”*

*“We have also re-commenced drilling in earnest at the Sly Fox Gold Deposit which, prior to the discovery of the high-grade Never Never Gold Deposit, was the highest-grade gold prospect at Dalgaranga. Sitting less than 2km from the process plant and on granted Mining Leases, we drilled a couple of test holes into Sly Fox late in 2023.”*

*“One of those holes, DGRC1382-DT, which was designed to test the veracity of previous geological interpretations, recently returned 23.83m @ 2.44g/t gold, including 5m @ 5.23g/t from near the very base of the declared Mineral Resource. This latest assay result, along with several recently completed 2024 drill-holes currently awaiting assays, have tested the previous geological interpretation, intersecting wide mineralised intervals well outside any previous resource interpretation and validating Sly Fox as a legitimate high-grade priority target for 2024.”*



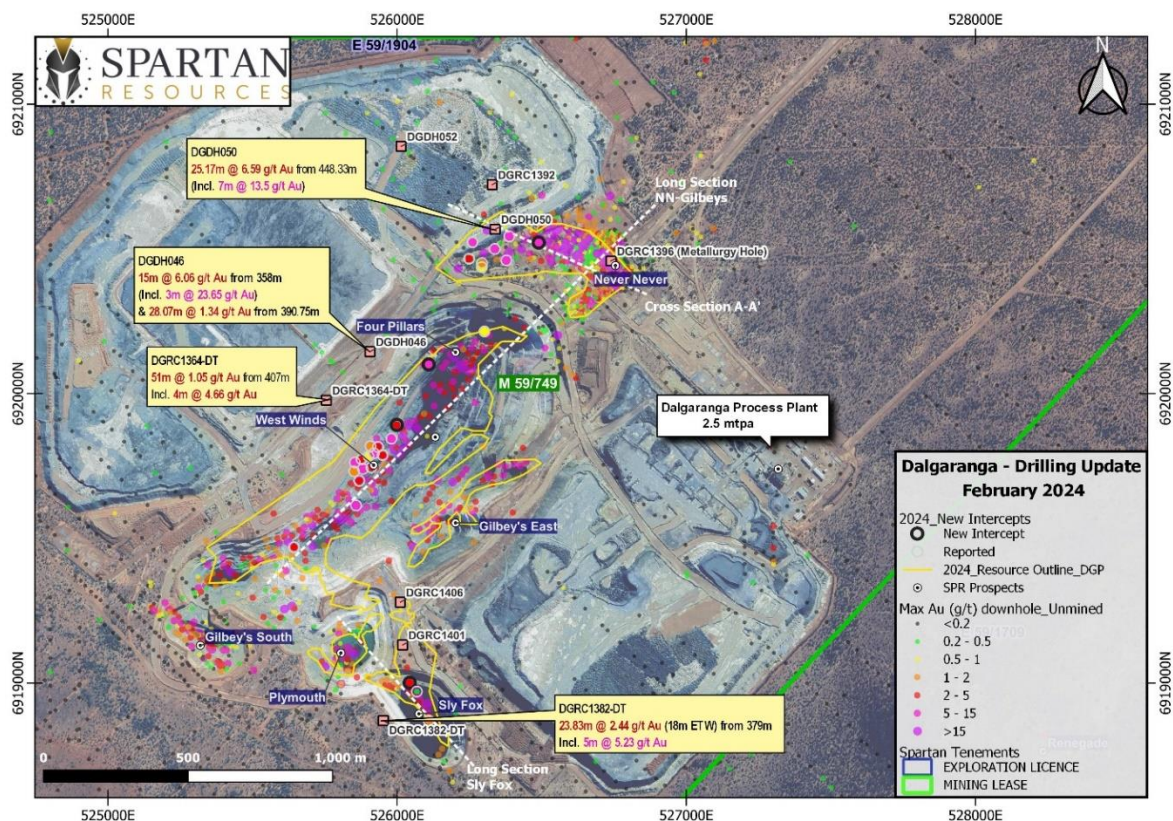
*"Spartan has a full set of priority drill targets for 2024. Our strategy is to drill and de-risk our assets through increased geological confidence and orebody knowledge. As we continue this process, we not only grow the potential value of our existing high-grade gold assets in front of our 100%-owned process plant and infrastructure, we also increase confidence in and de-risk the Spartan investment proposition for all our shareholders."*

Spartan Resources Limited ("**Spartan**" or "**Company**") (ASX: SPR) is pleased to report updated drilling and assay information from recent drilling completed towards the end of 2023 and into 2024 at its 100%-owned **Dalgaranga Gold Project ("DGP")** in the Murchison region of Western Australia.

The latest batch of assays includes significant intercepts from resource in-fill and metallurgical testwork drilling at the high-grade Never Never Gold Deposit, as well as significant intercept assays from drilling at the Four Pillars and West Winds prospects, beneath the former Gilbey's open pit, as well as results from the Sly Fox Gold Deposit.

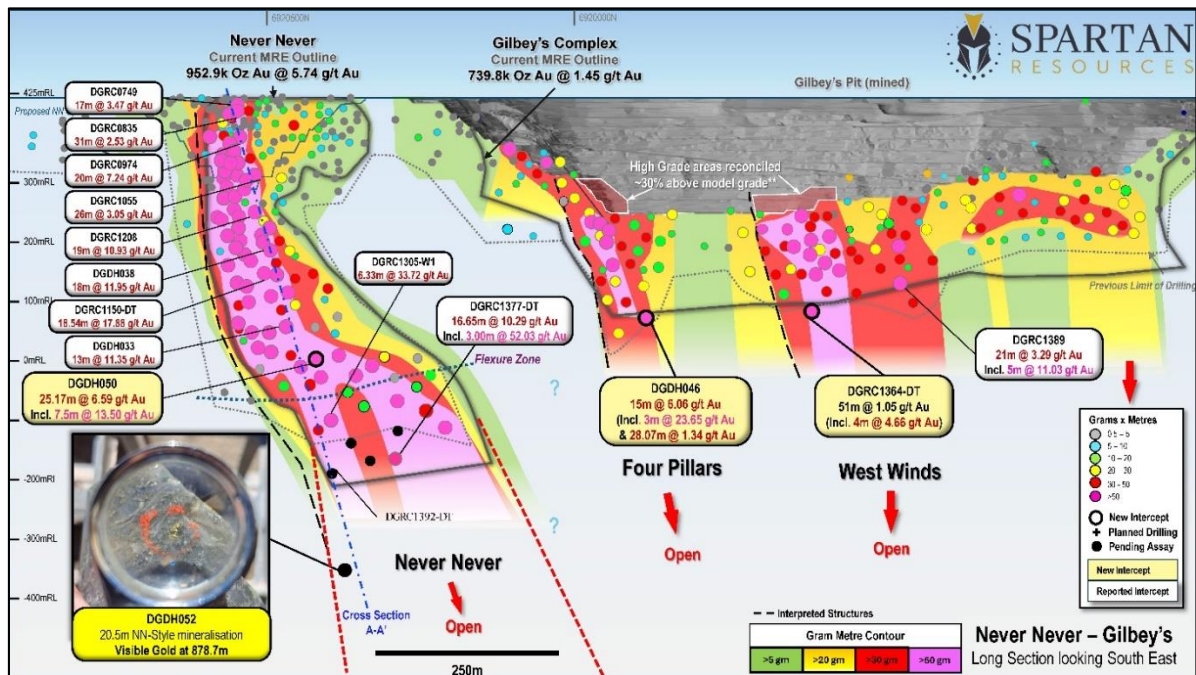
This announcement also contains information about logged mineralisation in drill-holes from the deepest drilling conducted to date at the Never Never Gold Deposit, including several holes with logged visible gold occurrences within typical Never-Never-style mineralised intervals (assays pending).

Also in this announcement are intervals of logged mineralisation from the Sly Fox Gold Deposit from well outside the Sly Fox Mineral Resource Estimate (assays pending).



**Figure 1:** Plan view of the Dalgaranga Mine Complex with recent highlight drill assay results (black outlines on collar points coloured by grade) across the main gold prospects at the Dalgaranga Gold Project.





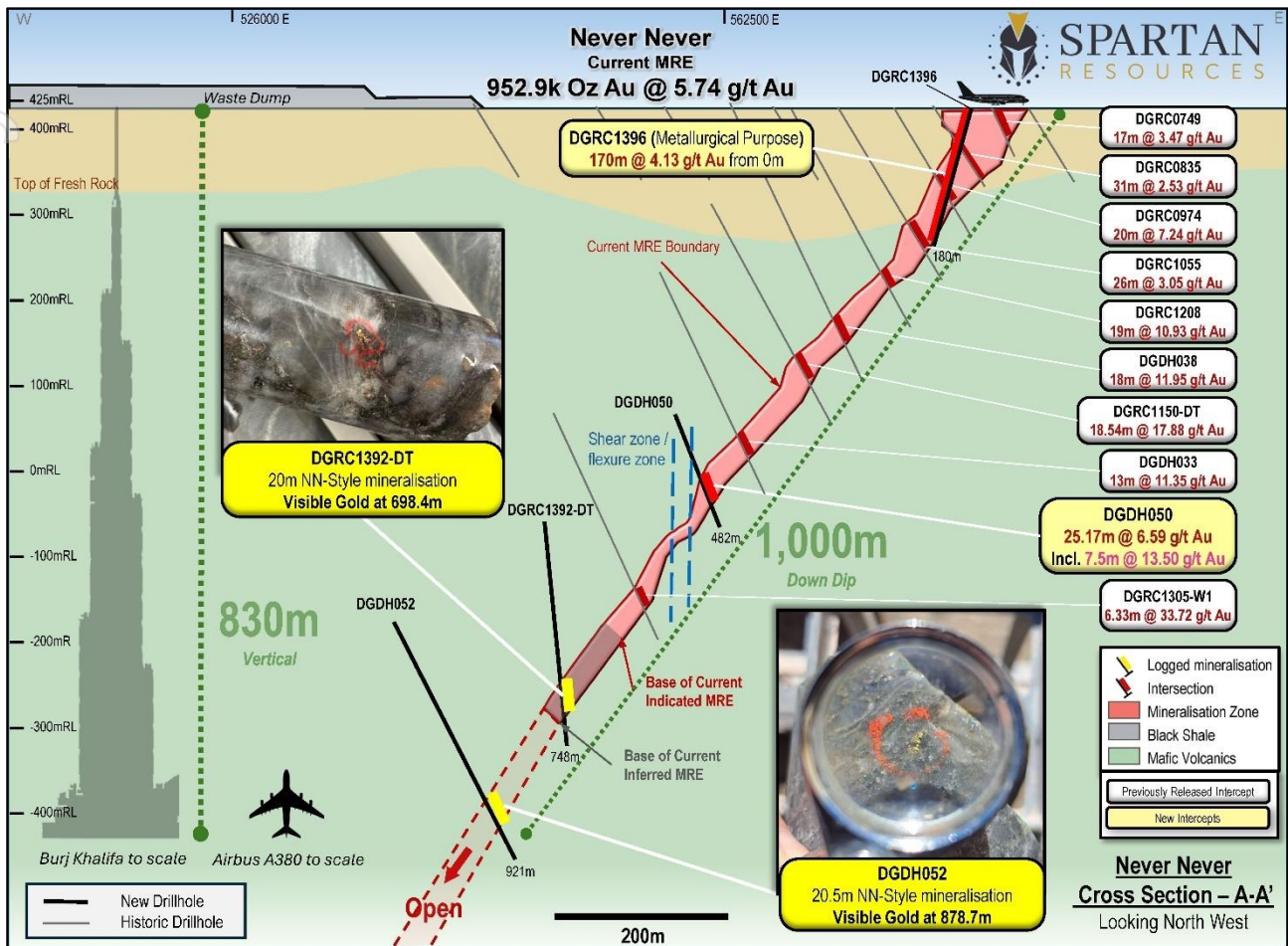
**Figure 2:** Long Section of Never Never Gold Deposit, Four Pillars and West Winds Gold Prospects looking east. Note position of deep intercept in DGDH052 and resource depth extension potential. Recent assay results in gold.

## Mineralisation Description – DGDH052 – Visible Gold Occurrence

DGDH052 (Interpreted Ore Zone Log)						
From (m)	To (m)	Interval (m)	Lithology	Sulphides Observed	Geological Description (lithology, alteration, minerals, veining, sulphide species)	Geological Interpretation
863.0	868.0	5.0	Interbedded mafics and volcanics	1% (Vein)	Interbedded medium-fine mafics and volcanics. Foliated with sporadic alteration and veining	Hanging wall
868.0	870.0	2.0	Altered volcanics	3%	Weakly biotised volcanics with abundant quartz veining and disseminated sulphides. Shape of feldspar grains indicates significant strain.	Potential Mineralisation
870.0	871.5	1.5	Mafic		Fine-grained mafic unit.	Hanging wall
871.5	878.0	6.5	Altered volcanics	5%	Biotite-sericite alteration with silica veining in several orientations. Patchy silica flooding.	Mineralisation
878.0	878.8	0.8	Mylonitic Zone	8%	Complete silica flooding. Abundant fine-grained sulphides and multiple occurrences of fine-grained disseminated <b>visible gold "VG" at 878.7m.</b>	
878.8	887.0	8.2	Mylonitic Zone	7% (Py & Po)	Biotite-sericite-chlorite alteration with patchy silica flooding and brecciation.	
887.0	887.5	0.5	Shale		Internal deformed shale	Internal shale
887.5	892.5	5.0	Mylonitic Zone	(Py, Po & minor)	Strongly foliated silica-sericite altered unit with abundant coarse sulphides	Mineralisation
892.5	899	6.5	Shale	8% Py & Po	FW shale with abundant mm- and cm-scale quartz veining. Lots of brittle fractures in unit	Footwall
899.0	x	x	Mafic		Footwall mafic	

**Table 1:** Drillhole DGDH052 - Mineralisation Description

**Note:** Visual estimates of mineral abundance should never be considered a proxy or substitute for laboratory analyses where concentrations or grades are the factor of principal economic interest. Visual estimates also potentially provide no information regarding impurities or deleterious physical properties relevant to valuations. Core processing is currently underway, with assay results expected in early March.



**Figure 3:** Cross-section through the Never Never Gold Deposit illustrating recent assay result (DGDH050 and recent deeper mineralised drill intercepts. Note: consistency of down-dip intercept widths, including logged visible gold within typical "Never-Never-style" mineralisation in both DGRC1392-DT and DGDH052 (pending assays). Burj Khalifa in Dubai shown for scale.

**Note:** Visual estimates of mineral abundance should never be considered a proxy or substitute for laboratory analyses where concentrations or grades are the factor of principal economic interest. Visual estimates also potentially provide no information regarding impurities or deleterious physical properties relevant to valuations. Core processing is currently underway, with assay results expected in early March.

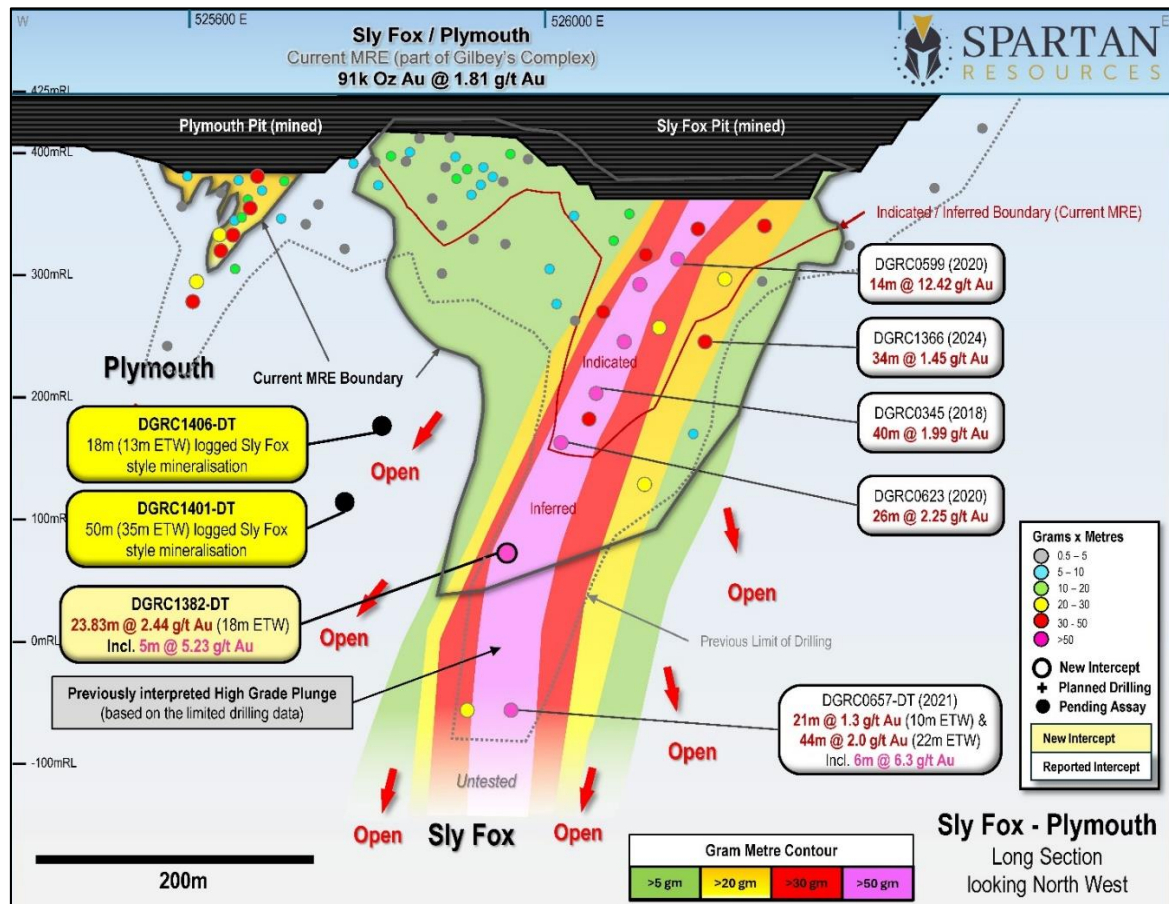


Figure 4: Long-section of the Sly Fox Gold Prospect illustrating recent assay result (DGRC1382-DT) and recent mineralised drill intercepts located well outside any known mineral resource (pending assays).

#### Mineralisation Descriptions – DGRC1401-DT and DGRC1406-DT

DGRC1401-DT (Interpreted Ore Zone Log)						
From (m)	To (m)	Interval (m)	Lithology	Sulphides Observed	Geological Description (lithology, alteration, minerals, veining, sulphide species)	Geological Interpretation
284.0	289.0	5.0	Volcaniclastics	0%	Volcaniclastics with feldspar porphyroclasts. Strong fabric 1m before ore zone.	Hanging wall
289.0	293.0	4.0	Altered volcaniclastics	5-8% Py	Pervasive, strong biotite-phlogopite alteration with patchy silicification. Strongly foliated with disseminated sulphides which often follow foliation. 0.5m internal shale	Potential Mineralisation
293.0	294.2	1.2	Shale	8% Py & Po	Strongly foliated shale.	Internal shale
294.2	298.0	3.8	Altered volcaniclastics	2% Py	Foliated volcaniclastics with fewer sulphides and less intense biotite-silica alteration.	Potential Mineralisation
298.0	301.0	3.0	Shale	7% Py	Black shale	Internal shale
301.0	336.0	35.0	Mylonitic Zone	5-8% Py	Intense biotite-phlogopite alteration with bands of chlorite alteration. Silica flooding and silicification throughout ore zone in varying intensities. Strong foliation, which is folded in areas. 1m internal shale 314.5 - 315.5 m	Mineralisation
336.0	351.0	15.0	Altered volcaniclastics	1%	Weak but pervasive biotite-silica alteration. Foliated with discrete quartz veining	
351.0	354.3	3.3	Shale	8% Py & Po	FW Shale	Footwall

Table 2: Drillhole DGRC1401-DT - Mineralisation Description

DGRC1406-DT (Interpreted Ore Zone Log)						
From (m)	To (m)	Interval (m)	Lithology	Sulphides Observed	Geological Description (lithology, alteration, minerals, veining, sulphide species)	Geological Interpretation
310.0	314.0	4.0	Volcaniclastics	0%	Foliated volcaniclastics	Hanging wall
314.0	314.6	0.6	Altered volcaniclastics	1%	Weak biotite-silica alteration in volcaniclastic unit	Potential Mineralisation
314.6	316.4	1.8	Shale	8%	Fine-grained shale	Internal Shale
316.4	321.9	5.5	Mylonitic Zone	1%	Fine-grained unit with patchy biotite alteration. mm-scale quartz veining	Mineralisation
321.9	328.8	6.9	Mylonitic Zone	2%	More intense biotite alteration with patchy silica flooding.	
328.8	331.4	2.6	Shale	3%	Foliated and folded shale.	Internal Shale
331.4	337	5.6	Altered volcaniclastics and Shale	2%	Biotite-silica altered volcaniclastics. Intercalations of shale throughout.	Mineralisation
337	337.2	0.2	Shale	2%	Fine-grained shale.	Footwall shale

Table 3: Drillhole DGRC1406-DT - Mineralisation Description





## Drill-hole Tables

**Table 1: Drill-hole Assay Table**

Hole Id	From (m)	To (m)	Interval (m)	Au g/t	Comments
<b>Never Never Gold Deposit</b>					
DGDH050	259	260.16	1.16	4.10	Possible 'Ink Lode'
and	448.33	448.67	25.17	6.59	Infill for additional confidence in Indicated
Incl.	463.5	471	7.50	13.52	
DGRC1396	0	170	170	4.13	Met Hole – Drilled down plunge of Never Never
<b>Four Pillars Gold Prospect</b>					
DGDH046	358	373	15.00	6.06	Deepest assays from Four Pillars
Incl.	358	361	3.00	23.65	
and	390.75	420	28.07	1.34	
Incl.	400	406	6.00	3.10	
<b>West Winds Gold Prospect</b>					
DGRC1364-DT	407	458	51.00	1.05	Over 50g/m intercept
Incl.	439	443	4.00	4.66	
<b>Sly Fox Gold Prospect</b>					
DGRC1382-DT	379	402.83	23.83	2.44	At base of Inferred MRE, Estimated True Width = 18m
Incl.	394	399	5.00	5.23	

\*0.5 g/t lower cut-off, maximum 3m internal waste for significant intercepts.

**Table 2: Drill-hole Collar Table**

Hole Id	Drill Type	Target	EOH Depth (m)	MGA Easting	MGA Northing	RL (m)	Azi	Dip
<b>Dalgaranga Gold Project</b>								
DGDH046	DD	Four Pillars	471.24	525906	6920145	426	101	-52
DGDH050	DD	Never Never	482.2	526339	6920568	434	108	-77
DGRC1364-DT	RCDD	West Winds	470	525755	6919977	425	112	-56
DGRC1382-DT	RCDD	Sly Fox	450.5	525952	6918870	430	30	-68
DGRC1401-DT	RCDD	Sly Fox	378	526019	6919131	429.65	249	-73.9
DGRC1406-DT	RCDD	Sly Fox	347.9	526011	6919279	428.22	194.9	-50.9
DGRC1392-DT	RCDD	Never Never	748.2	526329	6920722	443.39	169.7	-82.5
DGDH052	DD	Never Never	921.5	526014	6920854	444.44	120.4	-72.1
DGRC1396 (Met hole)	RC	Never Never	180	526740	6920458	419.80	305	-75



## References

Historical assay results referenced in this release may have been taken from the following ASX releases:

- ASX: SPR release – 24 July 2023 “Never Never Resource Increases to Over 720koz”
- ASX: SPR release – 12 September 2023 “25,000m Multi-Rig Drilling Program Underway”
- ASX: SPR release – 23 October 2023 “Visible Gold Intercept Logged 130m Below.....”
- ASX: SPR release – 14 November 2023 “Spectacular new high-grade gold intercepts....”
- ASX: SPR release – 12 December 2023 “More outstanding high-grade assay results”
- ASX: SPR release – 14 December 2023 “Never Never hits 952,900oz @ 5.74g/t”
- ASX: SPR release – 23 January 2024 “Exploration Update – Strong start to 2024”
- ASX: SPR release – 31 January 2024 “Exploration Update – Deepest Assay to date”

## Glossary of terms used in this release

“HW” =	Hanging Wall - the overhanging mass of rock above you when standing in the position of the orebody/target
“MRE” =	Mineral Resource Estimate – a mathematical estimate of the contained metal in a deposit
“VG” =	Visible Gold – Gold mineralisation visible to the human eye and typically found in areas of gold-associated mineralisation
“RC” =	Reverse Circulation - a drill type involving percussive hammer drilling using air pressure to “lift” cuttings to surface
“DD” =	Diamond Drilling - a drill type that cuts a semi-continuous “core” of rock using rotational methods and diamond bits
“PC” =	Pre-Collar - a short RC drillhole at the start of a DD drillhole or “tail”.
“DT” =	Diamond Tail – the remainder of a drillhole, completed using Diamond drilling, that begins with an RC Pre-Collar
“AA” =	Awaiting Assay – assays for the drill samples are in transit to, or in process, at the assay laboratory
“top-cut” =	Upper limit applied to assays to reduce the undue influence of (typically) one individual high-grade assay result when reporting a composite interval grade across many assay results.
“g/t” =	grams per tonne - accepted unit of measurement used to describe the number of grams of gold metal contained within a tonne of rock. Also equivalent to parts per million (ppm).
“ETW” =	Estimated True Width – estimated orebody width at the point of drillhole intercept based on current geological interpretation/statistical evaluation.
“NSR”	No Significant Result



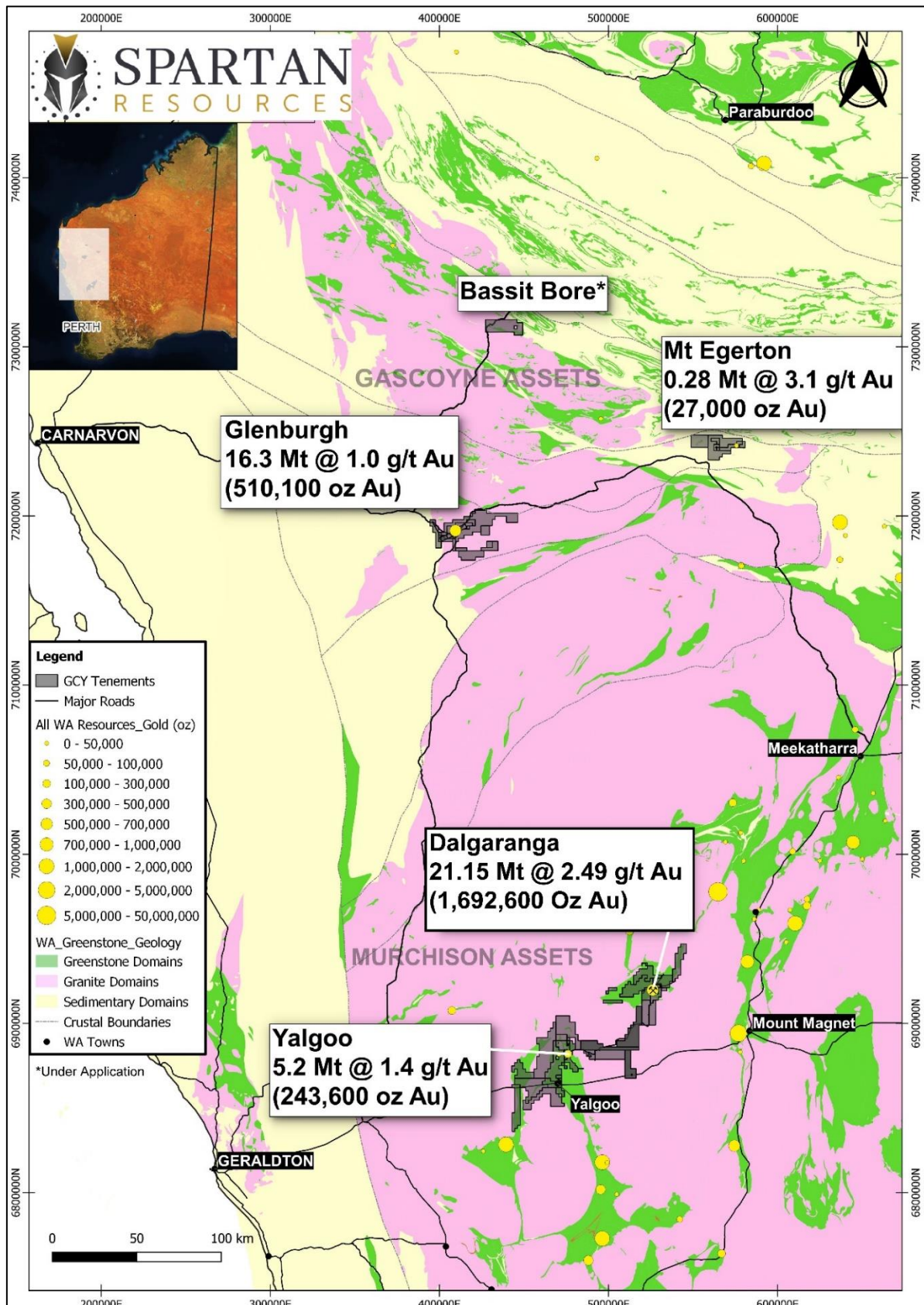


Figure 5: Spartan Resources Limited Project Locations.



## Authorisation

This announcement has been authorised for release by the Board of Spartan Resources Limited.

### For further information, please contact:

#### Investor inquiries:

Simon Lawson  
Managing Director and CEO  
+61 8 9481 3434

#### Media inquiries:

Read Corporate  
Nicholas Read  
+61 8 9388 1474

## BACKGROUND ON SPARTAN RESOURCES

Spartan Resources Limited (ASX: SPR) is an ASX-listed gold company that has repositioned itself as an advanced exploration company with a rapid pathway back into production at its Dalgaranga Gold Project, located 65km north-west of Mt Magnet in the Murchison District of Western Australia.

Dalgaranga produced over 70,000oz of gold in FY2022 before being placed on care and maintenance in November 2022 to implement an operational reset designed to preserve the value of its extensive infrastructure and Resource base while developing a new, sustainable operating plan.

This approach is underpinned by the exceptional high-grade Never Never gold discovery, which was made in 2022 just 1km from the existing 2.5Mtpa carbon-in-leach processing facility and the main open pit at Dalgaranga.

The Company has moved to rapidly unlock the potential of this significant discovery, which comprises a current JORC Mineral Resource of 952,000oz at an average grade of 5.74g/t ([read the announcement here](#)).

In February 2023, the Company announced an 18-month exploration and strategic plan (**the “365” strategy**) targeting:

- A +300koz Reserve at a grade exceeding 4.0g/t Au at Never Never;
- A +600koz Resource at a grade exceeding 5.0g/t Au at Never Never;
- The development of a 5-year mine plan aimed at delivering gold production of 130-150koz per annum.

This strategy is centred around an aggressive exploration program at Never Never designed to target Resource expansion, Reserve definition and near-mine exploration drilling targeting Never Never “lookalikes” including Four Pillars, West Winds and Sly Fox.

In addition to its near-mine exploration at Dalgaranga, Spartan is actively exploring more than 500km<sup>2</sup> of surrounding exploration tenements and also owns the advanced 244koz Yalgoo Gold Project, where permitting activities are well advanced to establish a potential satellite mining operation at the Melville deposit.

In addition to Dalgaranga and Yalgoo, the Company’s 527koz advanced exploration and development project at Glenburgh–Mt Egerton, located ~300km north of Dalgaranga, has the potential to be a second production hub.

Spartan is committed to safe and respectful operation as a professional and considerate organisation within a diverse and varied community. Our people represent our culture and our culture is always to show respect to each other and to our community, to respect the unique environment we operate within and to show respect to all of our various stakeholders.



## GROUP MINERAL RESOURCES:

### Total Group Mineral Resources

Category	Tonnes (Mt)	Grade (g/t)	Contained Metal (koz Au)
Measured	0.26	0.89	7.5
Indicated	30.04	1.79	1,727.6
Inferred	13.86	1.75	777.3
<b>GRAND TOTAL</b>	<b>44.16</b>	<b>1.77</b>	<b>2,512.4</b>

**Table A1:** Group Mineral Resource Estimates for Spartan Resources Limited (at various cut-offs)

### Murchison Region Mineral Resources (DGP & YGP)

Category	Tonnes (Mt)	Grade (g/t)	Contained Metal (koz Au)
Measured	0.26	0.89	7.5
Indicated	16.31	2.43	1,271.9
Inferred	11.02	1.97	695.9
<b>TOTAL</b>	<b>27.59</b>	<b>2.23</b>	<b>1,975.3</b>

**Table A2:** Combined Mineral Resource Statement for the Murchison Region, includes the Dalgaranga Gold Project (DGP) and Yalgoo Gold Project (YGP)

### Dalgaranga Gold Project (DGP)

Category	Tonnes (Mt)	Grade (g/t)	Contained Metal (koz Au)
Measured	0.26	0.89	7.5
Indicated	12.96	2.67	1,111.5
Inferred	7.93	2.25	573.6
<b>TOTAL</b>	<b>21.15</b>	<b>2.49</b>	<b>1,692.6</b>

**Table A3:** The DGP includes in-situ mineral resources for the Never Never Gold Deposit, the Gilbey's Complex Group of Gold Deposits, and the Archie Rose Gold Deposit.



## Never Never Gold Deposit Mineral Resource Estimate (DGP)

NEVER NEVER GOLD DEPOSIT			
“Open Pit” Resource >0.5gpt Au <270mRL			
Category	Tonnes (Mt)	Grade (g/t)	Contained Metal (koz Au)
Indicated	1.09	2.46	86.3
Inferred	0.18	1.08	6.2
<b>TOTAL</b>	<b>1.27</b>	<b>2.27</b>	<b>92.5</b>
“Underground” Resource >2.0gpt Au >270mRL			
Category	Tonnes (Mt)	Grade (g/t)	Contained Metal (koz Au)
Indicated	2.58	7.40	614.5
Inferred	1.31	5.86	245.9
<b>TOTAL</b>	<b>3.89</b>	<b>6.88</b>	<b>860.4</b>
TOTAL NEVER NEVER GOLD DEPOSIT			
Category	Tonnes (Mt)	Grade (g/t)	Contained Metal (koz Au)
Indicated	3.67	5.93	700.7
Inferred	1.49	5.28	252.1
<b>GRAND TOTAL</b>	<b>5.16</b>	<b>5.74</b>	<b>952.9</b>

**Table A4:** The Never Never Gold Deposit includes in-situ the Gilbey's North and Never Never Lodes. Reporting cut-off grades are 0.5g/t Au for Open Pit defined mineral resources and 2.0g/t Au for Underground defined mineral resources.

## “Gilbey's Complex” Mineral Resource Estimate (DGP)

Category	Tonnes (Mt)	Grade (g/t)	Contained Metal (koz Au)
Measured	0.26	0.89	7.5
Indicated	9.28	1.38	410.8
Inferred	6.44	1.55	321.5
<b>TOTAL</b>	<b>15.99</b>	<b>1.45</b>	<b>739.8</b>

**Table A5:** Gilbey's Complex Mineral Resource Estimate Statement for combined in-situ resources for open pit (>0.5g/t Au constrained with an A\$2,800 pit shell) and underground >1.0g/t Au, below the A\$2,800 pit shell)

Gilbey's Complex includes Four Pillars, West Winds, Gilbey's East, Plymouth and Sly Fox which were all updated for the December 2023 Release. Additional areas not currently reported are Gilbey's South, GSP Zone and MME Zone, which will be included in following updates.





## Archie Rose Gold Deposit Mineral Resource Estimate (DGP)

Category	Tonnes (Mt)	Grade (g/t)	Contained Metal (koz Au)
Inferred	1.21	1.01	39.1
<b>TOTAL</b>	<b>1.21</b>	<b>1.01</b>	<b>39.1</b>

**Table A6:** Archie Rose Initial Mineral Resource statement for in-situ resources above 0.5g/t Au.

No material changes have been made to the Archie Rose deposit MRE since they were released by Spartan in September 2022. As such the details of the MRE can be found in ASX release dated 8 September 2022 and titled "Group Gold Resources Increase by 15.6% to 1.37Moz with Resource Grade up by 29%".

## Yalgoo Gold Project (YGP)

Category	Tonnes (Mt)	Grade (g/t)	Contained Metal (koz Au)
Indicated	3.35	1.49	160.4
Inferred	1.88	1.37	83.2
<b>TOTAL</b>	<b>5.24</b>	<b>1.45</b>	<b>243.6</b>

**Table A7:** The YGP includes in-situ mineral resources for the Melville and Applecross Gold Deposits. Reporting cut-off grades are g/t Au.

No material changes have been made to the Melville or Applecross Gold Deposit MRE, as a whole the "Yalgoo Gold Project", since they were released by Spartan Resources in December 2021. As such the details of those individual MRE can be found in ASX release dated 6 December 2021 and titled "24% increase in Yalgoo Gold Resource to 243,613oz strengthens Dalgara Growth Pipeline".

## Gascoyne Regional Project - Mineral Resources (GRP)

Category	Tonnes (Mt)	Grade (g/t)	Contained Metal (koz Au)
Indicated	13.73	1.03	455.7
Inferred	2.84	0.89	81.4
<b>TOTAL</b>	<b>16.57</b>	<b>1.01</b>	<b>537.1</b>

**Table A8:** Gascoyne Region Total Mineral Resource statement includes the Glenburgh Gold Project (GGP) and the Mt Egerton Gold Project (EGP)

No material changes have been made to the Mineral Resource Estimates of the Glenburgh Gold Project or the Mt Egerton Gold Project since they were released by Spartan Resources in May 2021. The detail of the Glenburgh MRE can be found in ASX release dated 17 December 2020 and titled "Group Mineral Resources Grow to Over 1.3Moz". Detail for the Mt Egerton MRE can be found in ASX release dated 31 May 2021 and titled "2021 Mineral Resource and Ore Reserve Statements".



## Glenburgh Gold Project (GGP)

Category	Tonnes (Mt)	Grade (g/t)	Contained Metal (koz Au)
Indicated	13.5	1.0	430.7
Inferred	2.8	0.9	79.4
<b>TOTAL</b>	<b>16.3</b>	<b>1.0</b>	<b>510.1</b>

**Table A9:** The Glenburgh Gold Project Mineral Resource Estimate for in-situ resources above 0.25g/t Au for open pit defined mineral resources and above 2.0g/t Au for Underground defined mineral resources.

## Mt Egerton Gold Project (EGP)

Category	Tonnes (Mt)	Grade (g/t)	Contained Metal (koz Au)
Indicated	0.23	3.4	25.0
Inferred	0.04	1.5	2.0
<b>TOTAL</b>	<b>0.27</b>	<b>3.1</b>	<b>27.0</b>

**Table A10:** The Mount Egerton Gold Project Mineral Resource Estimate for in-situ resources above 0.70g/t Au for open pit defined mineral resources.

## Competent Persons Statement

The Mineral Resource estimates for the Dalgaranga Gold Project (including the Gilbey's North and Never Never (collectively the "Never Never deposits"), Gilbey's, Plymouth and Sly Fox Deposits referred to in this announcement titled "Never Never Hits 952,000oz @ 5.74g/t, Dalgaranga Moves To Next Level At 1.7Moz" is based on information compiled under the supervision of Mr Nicholas Jolly. Mr Jolly is a geologist with over 25 years relevant industry experience, and a full-time employee of Spartan Resources Limited and is a Member in good standing of the Australian Institute of Geoscientists. Mr Jolly has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity that was undertaken 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 (The Joint Ore Reserves Committee Code – JORC 2012 Edition). Mr Jolly consents to the inclusion in this report of the matters based on his information in the form and context in which it appears. The Company confirms that it is not aware of any new information or data that materially affects the information included in this market announcement and that all material assumptions and technical parameters underpinning the estimate in this announcement continue to apply and have not materially changed.

The Mineral Resource estimates for the Archie Rose deposit referred to in this presentation are extracted from the ASX announcement dated 8 September 2022 and titled "Gold Resources increase by 15.6% to 1.37Moz with Resource Grade up by 29%". The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement and that all material assumptions and technical parameters underpinning the estimate in the original market announcement continue to apply and have not materially changed.

Information in this announcement relating to exploration results from the Dalgaranga Gold Project (Gilbey's, Four Pillars, West Winds, Plymouth, Sly Fox and Gilbey's North / Never deposits) are based on, and fairly represents data compiled by Spartan's Senior Exploration Geologist Mr Monty Graham, who is a member of The Australasian Institute of Mining and Metallurgy. Mr Graham has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which they are



undertaking to qualify as a Competent Person under the 2012 Edition of the Australasian Code for reporting of Exploration Results. Mr Graham consents to the inclusion of the data in the form and context in which it appears.

The Mineral Resource estimate for the Yalgoo Gold Project referred to in this announcement is extracted from the ASX announcement dated 6 December 2021 and titled "24% Increase in Yalgoo Gold Resource to 243,613oz Strengthens Dalgara Growth Pipeline". The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement and that all material assumptions and technical parameters underpinning the estimate in the original market announcement continue to apply and have not materially changed.

The Mineral Resource estimate for the Glenburgh Project referred to in this announcement is extracted from the ASX announcement dated 18 December 2020 and titled "Group Mineral Resources Grow to Over 1.3M oz". The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement and that all material assumptions and technical parameters underpinning the estimate in the original market announcement continue to apply and have not materially changed.

The Mineral Resource estimate for the Mt Egerton Project referred to in this announcement is extracted from the ASX announcement dated 31 May 2021 and titled "2021 Mineral Resource and Ore Reserve Statements". The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement and that all material assumptions and technical parameters underpinning the estimate in the original market announcement continue to apply and have not materially changed.

Information in this announcement relating to exploration results for the Glenburgh and Mt Egerton Gold Projects is based on, and fairly represents, data compiled by Spartan's Senior Exploration Geologist Mr Monty Graham, who is a member of The Australasian Institute of Mining and Metallurgy. Mr Graham 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 under the 2012 Edition of the Australasian Code for reporting of Exploration Results. Mr Graham consents to the inclusion in this announcement of the data relating to the Glenburgh and Mt Egerton Gold Projects in the form and context in which it appears.



### Forward-looking statements

This announcement contains forward-looking statements which may be identified by words such as "believes", "estimates", "expects", "intends", "may", "will", "would", "could", or "should" and other similar words that involve risks and uncertainties. These statements are based on an assessment of present economic and operating conditions, and on a number of assumptions regarding future events and actions that, as at the date of this announcement, are expected to take place.

Such forward-looking statements are not guarantees of future performance and involve known and unknown risks, uncertainties, assumptions and other important factors, many of which are beyond the control of the Company, the Directors and management of the Company. These and other factors could cause actual results to differ materially from those expressed in any forward-looking statements.

The Company cannot and does not give assurances that the results, performance or achievements expressed or implied in the forward-looking statements contained in this announcement will actually occur and investors are cautioned not to place undue reliance on these forward-looking statements.



**JORC Code, 2012 Edition – Table 1**  
**Section 1 Sampling Techniques and Data**

**Dalgaranga Gold Project**

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

Criteria	Commentary
<b>Sampling techniques</b>	<ul style="list-style-type: none"> <li>RC drilling was used to obtain 1 m samples which were split by a cone splitter at the rig to produce a 3 – 5 kg sample. The samples were shipped to the laboratory for analysis via 500 g Photon assay.</li> <li>Where DD was undertaken or as DD tails extending RC holes ½ core and occasionally whole core was sampling while for PQ, HQ or NQ holes with analysis via 500 g Photon assay.</li> <li>Current QAQC protocols include the analysis of field duplicates and the insertion of appropriate commercial standards and blank samples. Based on statistical analysis of these results, there is no evidence to suggest the samples are not representative.</li> </ul>
<b>Drilling techniques</b>	<ul style="list-style-type: none"> <li>RC drilling used a nominal 5 ½ inch diameter face sampling hammer.</li> <li>The DD was undertaken from surface or as DD tails from RC pre-collars.</li> <li>Core sizes range from NQ, HQ or PQ (to allow geotechnical and/or metallurgical samples to be collected).</li> </ul>
<b>Drill sample recovery</b>	<ul style="list-style-type: none"> <li>RC sample recovery is visually assessed and recorded where significantly reduced. Negligible sample loss has been recorded.</li> <li>DD was undertaken and the core measured and orientated to determine recovery, which was generally 100% in transitional / fresh rock.</li> <li>RC samples were visually checked for recovery, moisture and contamination. A cyclone and cone splitter were used to provide a uniform sample, and these were routinely cleaned.</li> <li>RC Sample recoveries are generally high. No significant sample loss has been recorded.</li> </ul>
<b>Logging</b>	<ul style="list-style-type: none"> <li>RC chips are logged to geological boundaries, with chip trays photographed and stored for future reference.</li> <li>RC logging recorded the lithology, alteration, veining, minerals, oxidation state, and colour.</li> <li>DD holes have all been additionally logged for structural and geotechnical measurements.</li> <li>The DD core photographed tray by tray wet and dry and have been labelled appropriately for reference &lt;holeID_mFrom_mTo_WET/DRY&gt;.</li> <li>All drill holes being reported have been logged in full.</li> </ul>



Criteria	Commentary
<b>Sub-sampling techniques and sample preparation</b>	<ul style="list-style-type: none"> <li>• RC chips were cone split at the rig. Samples were generally dry. A sample size of between 3 and 5 kg was collected. This size is considered appropriate, and representative of the material being sampled given the width and continuity of the intersections, and the grain size of the material being collected.</li> <li>• RC samples are dried. If the sample weight is greater than 3 kg, the sample is riffle split.</li> <li>• The DD core has been consistently sampled with the left-hand side of the core sampled.</li> <li>• All samples are coarse crushed to 2 mm prior to photon assaying.</li> <li>• Field duplicates were collected during RC drilling – the methodology has changed to full intervals through the target zone per drill hole. Duplicates are submitted for analysis based on primary assay results – guidelines are mineralised intercept (&gt;0.25ppm Au +/-10m footwall / hanging wall either side).</li> <li>• Further sampling (lab umpire assays) are conducted if it is considered necessary – policy is for 3% of grading assays greater than 0.2 ppm Au are selected for Fire Assaying.</li> </ul>
<b>Quality of assay data and laboratory tests</b>	<ul style="list-style-type: none"> <li>• RC and DD samples were sent to ALS Global Pty Ltd for analysis, by Photon Assay. A 500 g sample is assayed for gold by Photon Assay (method code PAAU2) along with quality control samples including certified reference materials, blanks and sample duplicates.</li> <li>• For Photon Assay, the sample is crushed to nominal 85% passing 2 mm, linear split and a nominal 500 g sub sample taken (method code PAP3502R).</li> <li>• The 500 g sample is assayed for gold by Photon Assay (method code PAAU2) along with quality control samples including certified reference materials, blanks and sample duplicates.</li> <li>• Additional Bulk Density measurements have been taken from DD core by ALS Global staff (method code OA-GRA08), across material types (Laterite, oxide, transitional, fresh) lithologies (shales, schists, porphyries) and mineralised zones. Results were in line with project averages contained within the database.</li> <li>• Field QAQC procedures include the insertion of both field duplicates and certified reference 'standards' and 'blank' samples. Assay results have been satisfactory and demonstrate an acceptable level of accuracy and precision. Laboratory QAQC involves the use of internal certified reference standards, blanks, splits and replicates. Analysis of these results also demonstrates an acceptable level of precision and accuracy.</li> <li>• Umpire assaying for 2023 drilling has been selected, with a focus on spatial location within the mineralised zones. Results continue to demonstrate a strong correlation of photon assay with fire assay techniques.</li> <li>• For the 2024 H1 campaign, batches are submitted monthly as assays are received with an initial batch submitted for FA.</li> <li>• No downhole geophysical tools etc. have been used at Dalgaranga.</li> </ul>
<b>Verification of sampling and assaying</b>	<ul style="list-style-type: none"> <li>• At least 3 Company personnel verify all intersections.</li> <li>• No twinned holes have been drilled to date by Spartan Resources, however, multiple orientations have tested the mineralised trend, each verifying the geometry of the mineralised shoot. In 2024, drilling orientation has been optimised based on the updated MRE.</li> <li>• Field data is collected using Log Chief on tablet computers. The data is sent to the Spartan Database Manager for validation and compilation into a SQL database server.</li> <li>• All logs were validated by the Project Geologist prior to being sent to the Database Administrator for import into SPR's database.</li> <li>• No adjustments have been made to assay data apart from values below the detection limit which are assigned a value of half the detection limit (positive</li> </ul>



Criteria	Commentary
	number) prior to estimation.
<b>Location of data points</b>	<ul style="list-style-type: none"> <li>The RC and DD hole collars have been picked up by DGPS.</li> <li>All RC and DD holes completed since 2022 had down holes surveys at the completion of each hole with readings every 10m.</li> <li>The grid system is MGA_GDA94 Zone 50, all current MRE's will be conducted in MGA (previous a local grid was used)</li> </ul>
<b>Data spacing and distribution</b>	<ul style="list-style-type: none"> <li>Defining the orientation of the Never Never gold deposit saw alternative drilling orientations used to pin down the strike and geometry, which included drilling north-east, south-east, and north-south orientation.</li> <li>Current resource drilling is targeting Inferred, Mineral Inventory and gaps within the Indicated where required at both Never Never and other high-grade targets along the Gilbey's trend.</li> <li>For near-mine targets, drill spacing ranges from 100m to 50m on various orientations as dictated by the structural architecture. Drilling is ongoing to pin down the mineralised trends encountered to date.</li> <li>The mineralised domains have sufficient continuity in both geology and grade to be considered appropriate for the Mineral Resource and Ore Reserve estimation procedures and classification applied under the 2012 JORC Code.</li> </ul>
<b>Orientation of data in relation to geological structure</b>	<ul style="list-style-type: none"> <li>Drilling sections are orientated perpendicular to the strike of the mineralised host rocks at Dalgaranga. This varies between prospects and consequently the azimuth of the drill holes also varies to reflect this. The drilling is angled at between -50 and -60° which is close to perpendicular to the dip of the stratigraphy, some of the deeper diamond holes have a steeper dip due to platform availability.</li> <li>Never Never demonstrates a west-northwest trend, compared to the main Gilbey's trend, which appears spatially related to a shale unit with the same or similar orientation. Never Never has a sharp northern boundary that is identifiable in geophysics, the southern boundary tapers in grade and thickness.</li> <li>No orientation-based sampling bias has been identified in the data – drilling to date indicates the geological model is robust, and in places conservative.</li> </ul>
<b>Sample security</b>	<ul style="list-style-type: none"> <li>Chain of custody is managed by Spartan Resources. Drill Samples are dispatched weekly from the Dalgaranga Gold Project site.</li> <li>Currently Beattie Haulage delivers the samples directly to the assay laboratory in Perth. In some cases, Company personnel have delivered the samples directly to the lab.</li> <li>Core logging is conducted on site, and at Spartan's core storage facility in Perth. Core cutting is conducted by both All Points Sampling (APS) and ALS Global.</li> <li>Core cut by APS is returned to Spartan's core facility for sampling, prior to delivery to ALS Global for analysis. Core cut by ALS Global is also sampled by ALS Global per provided sample sheets.</li> </ul>



Criteria	Commentary
<b><i>Audits or reviews</i></b>	<ul style="list-style-type: none"><li>• Data is validated by the Spartan DBA whilst loading into database. Any errors within the data are returned to relevant Spartan geologist for validation.</li><li>• Any fixed errors have been returned to the Spartan DBA to update the master data set.</li><li>• Prior to interpretation and modelling, all data has been visually validated for erroneous surveys or collar pick-ups.</li><li>• Outlier logging intervals of marker horizon lithologies such as shales and veining are checked against chip trays or core photos.</li><li>• Core photos have been reviewed against logging and assays.</li><li>• An audit has been undertaken by SPR of the ALS core cutting and sampling processes – no issues have been noted. A separate lab audit of the ALS photon assay facility at Cannington was also conducted in May 2023 with no issues noted.</li><li>• SPR's Monty Graham (Senior Exploration Geologist) is the Competent Person for Sampling Techniques, Exploration Results and Data Quality.</li></ul>





## Section 2 Reporting of Exploration Results

### Dalgaranga Gold Project

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

Criteria	Commentary
<b>Mineral tenement and land tenure status</b>	<ul style="list-style-type: none"> <li>Dalgaranga project is situated on Mining Lease Number M59/749. Never Never, Four Pillars, West Winds, Sly Fox, Arc and Patient Wolf are all located on this lease.</li> <li>The tenement is 100% owned by Spartan Resources Limited.</li> <li>The tenements are in good standing and no known impediments exist.</li> </ul>
<b>Exploration done by other parties</b>	<ul style="list-style-type: none"> <li>The tenement areas have been previously explored by numerous companies including BHP, Newcrest and Equigold.</li> <li>Previous mining was carried out by Equigold in a JV with Western Reefs NL from 1996 – 2000.</li> </ul>
<b>Geology</b>	<ul style="list-style-type: none"> <li>Regionally, the Dalgaranga project lies in the Archean aged Dalgaranga Greenstone Belt in the Murchison Province of Western Australia. At the Gilbey's deposit, most gold mineralisation is associated with shears situated within biotite-sericite-carbonate pyrite altered schists with quartz-carbonate veining within a volcanoclastics package-shale-mafic (dolerite, gabbro, basalt) rock package (Gilbey's Main Volcanoclastics package Zone).</li> <li>The Gilbey's Main and Gilbey's North prospect volcanoclastics package Zone trends north – south and dips moderately-to-steeply to the west on local grid while Sly Fox deposit trends east – west and dips steeply to the north. These two trends define the orientation of the limbs of an anticlinal structure, with a highly disrupted area being evident in the hinge zone.</li> <li>At the Sly Fox deposit gold mineralisation occurs in quartz veined and silica, pyrite, biotite altered schists.</li> <li>The Plymouth deposit lies between Gilbey's and Sly Fox within the hinge zone of anticlinal structure – mineralisation at Plymouth is related to quartz veins and silica, pyrite, biotite altered schists.</li> <li>At Hendricks and Vickers gold mineralisation occurs in quartz-pyrite veined and altered zones hosted in basalts</li> <li>The Never Never Gold Deposit appears to be an intersection between a significant lode structure and the mine sequence – the mineralisation plunges moderately to the west and is characterised by strong quartz – sericite – biotite alteration, with fine to very fine pyrite sulphide mineralisation. Visible gold has been logged in multiple diamond drill (DD) holes to date.</li> </ul>
<b>Drill hole Information</b>	<ul style="list-style-type: none"> <li>For this announcement, 1 x RC holes, 2 x RCDD and 2 x DD holes are being reported.</li> <li>Collar details for other drill hole results shown in diagrams have been previously published by Spartan Resources.</li> </ul>



Criteria	Commentary
<b>Data aggregation methods</b>	<ul style="list-style-type: none"> <li>For previously reported drilling results the following is applicable: <ul style="list-style-type: none"> <li>All reported assays have been length weighted if appropriate.</li> <li>A nominal 0.5 ppm Au lower cut off has been applied to the RC and DD results, with up to 3m internal dilution (&gt;0.5ppm Au) included if appropriate.</li> <li>High grade Au intervals lying within broader zones of Au mineralisation are reported as included intervals.</li> <li>For the drilling results prior to the Never Never July MRE update, a top-cap of 50gpt Au has been used, in-line with statistical analysis completed for the January 2023 MRE. The Never Never July 2023 MRE increased the top-cap to 75gpt Au based on statistical analysis. All exploration results reported subsequent to the Never Never July 2023 MRE, up until December 2023 used the 75gpt Au for reporting purposes.</li> <li>The Never Never MRE Dec 2023 increased the top-cap to 100gpt Au based on statistical analysis. From 2024, all drilling results are being reported uncut, previously reported results will not be adjusted.</li> <li>No metal equivalent values have been used.</li> </ul> </li> </ul>
<b>Relationship between mineralisation widths and intercept lengths</b>	<ul style="list-style-type: none"> <li>The mineralised zones at Dalgaranga vary in strike between prospects, but all are relatively steeply dipping.</li> <li>Drill hole orientation reflects the change in strike of the stratigraphy over the deposit and consequently the downhole intersections quoted are believed to approximate true width unless otherwise stated in the announcement.</li> <li>Never Never Gold Deposit utilised various drilling orientations due to the variable strike orientation of the mineralised domains present.</li> <li>The drillholes orientated east/west in some instances may be drilling along strike rather than perpendicular, as resource definition confirmed the orientation of the mineralisation. However, subsequent analysis indicated this did not provide a biased impression of the mineralisation, as drilling orientated north-south confirmed the geometry and tenor.</li> <li>Based on the MRE, drilling for the 2024 phase of surface drilling has been adjusted to optimise the intersection point through mineralisation.</li> <li>For Sly Fox, West Winds and Four Pillars drilling, orientation is currently being tested with diamond drilling which will provide structural information for ongoing targeting and domaining.</li> <li>For Near Mine drilling, target generation and planning is underway. Multiple orientations are being tested with RC drilling. Diamond drilling is also planned.</li> </ul>
<b>Diagrams</b>	<ul style="list-style-type: none"> <li>Diagrams are included in the body of the report.</li> </ul>
<b>Balanced reporting</b>	<ul style="list-style-type: none"> <li>All related drilling results are being reported to the market as assays are received.</li> <li>Metallurgical results are reported as soon as test work has been completed and reported.</li> </ul>
<b>Other substantive exploration data</b>	<ul style="list-style-type: none"> <li>Not applicable.</li> </ul>



Criteria	Commentary
<b>Further work</b>	<ul style="list-style-type: none"><li>• 2024 Phase 1 drilling campaign is currently underway from mid-January, with 4 rigs currently on site.</li><li>• Further early-stage exploration is planned for the prospective corridor from Never Never to Golden Wings, with a focus on the Mining Lease which includes prospects Arc and Patient Wolf. A detailed ground gravity survey is currently underway during February, with results to be integrated into Spartans's near-mine exploration drill targeting.</li><li>• Dalgaranga MRE updates are planned for June 2024 updates, including results from 2023 drilled after the December deadline and 2024 Phase 1 results.</li><li>• Technical studies related to geotechnical and metallurgical test work remain ongoing and additional samples will be taken as drilling progresses for potential additional metallurgical test work.</li><li>• Structural geology and geochemistry studies are ongoing.</li></ul>