



Gold
Hydrogen

Gold Hydrogen Limited

ABN 74 647 468 899

Interim Report - 31 December 2023

Gold Hydrogen Limited
Corporate directory
31 December 2023

Directors	Alexander Downer - Non-Executive Chairman Neil McDonald - Managing Director Katherine Barnet - Non-Executive Director Roger Cressey - Executive Director
Company secretary	Karl Schlobohm
Registered office and principal place of business	Level 14 110 Eagle Street Brisbane QLD 4000
Share register	Link Market Services Limited Level 12 680 George Street Sydney NSW 2000 Phone: 1300 554 474
Auditor	BDO Audit Pty Ltd Level 10 12 Creek Street Brisbane QLD 4000
Solicitors	Gadens 111 Eagle Street Brisbane QLD 4000
Bankers	National Australia Bank Limited 259 Queen Street Brisbane QLD 4000
Stock exchange listing	Gold Hydrogen Limited shares are listed on the Australian Securities Exchange (ASX code: GHY)
Website	www.goldhydrogen.com.au
Corporate Governance Statement	www.goldhydrogen.com.au/corporate-governance/

The Directors present their report, together with the financial statements, on the consolidated entity (referred to hereafter as the 'Group') consisting of Gold Hydrogen Limited (referred to hereafter as Gold Hydrogen, 'the Company' or 'parent entity') and the entities it controlled at the end of, or during, the half-year ended 31 December 2023.

Directors

The following persons were Directors of Gold Hydrogen Limited during the whole of the financial half-year and up to the date of this report, unless otherwise stated:

- Alexander Downer (Chair)
- Neil McDonald (Managing Director)
- Katherine Barnet
- Roger Cressey

Principal activities

Gold Hydrogen is focused on the discovery and development of world class natural hydrogen and helium gases in a potentially extensive natural hydrogen and helium gas province in South Australia. There was no change to the principal activities of the Group during the period.

Review of operations

The loss for the Group after providing for income tax amounted to \$1,284,135 (31 December 2022: \$4,430,888). During the period to 31 December 2023, the Group's main focus was the drilling of Australia's first dedicated natural hydrogen exploration wells. The Ramsay 1 and Ramsay 2 exploration wells were successfully drilled in October 2023 and November 2023, and not only found hydrogen at significant levels, but also helium.

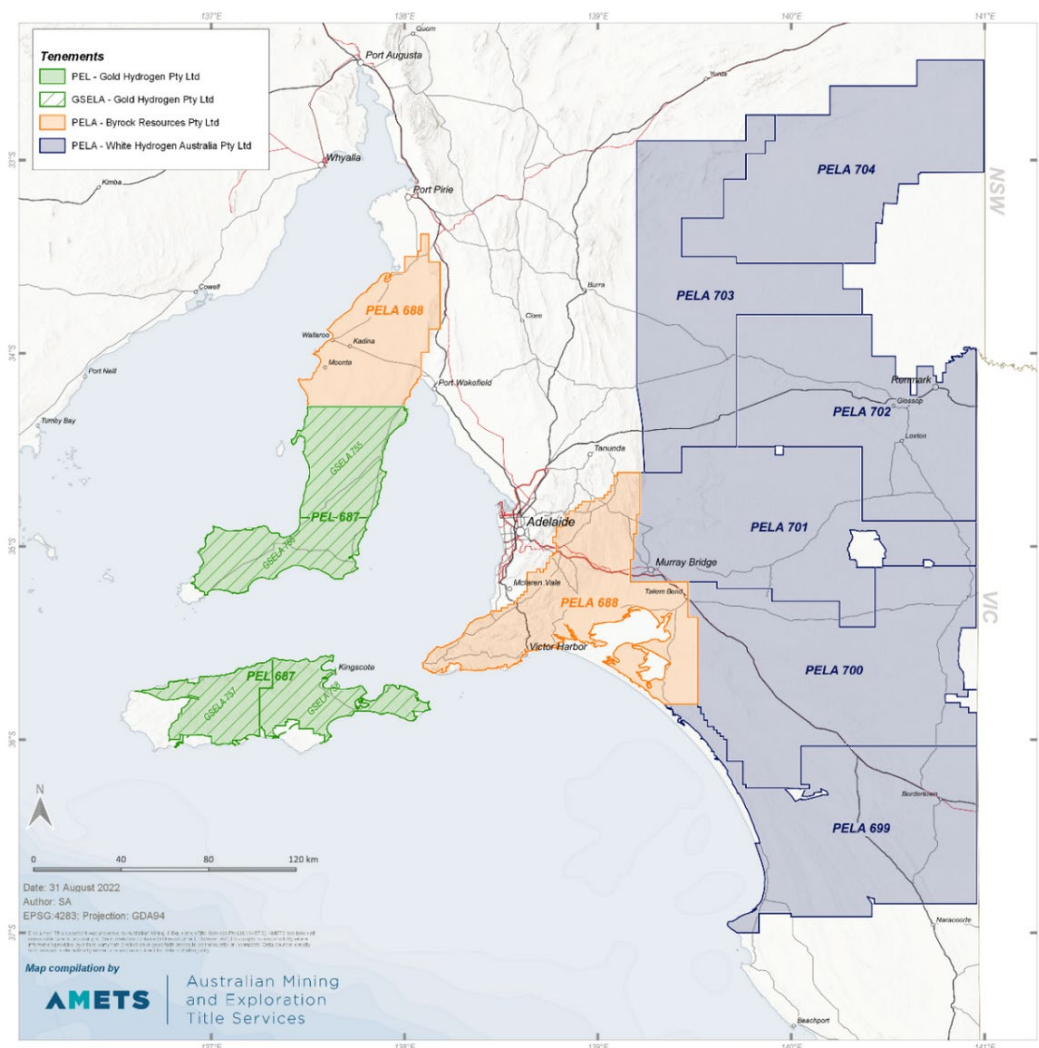


Figure 1 - Gold Hydrogen Group tenement and areas under application located in South Australia.

Airborne Survey

During the period, the raw airborne survey data from the Group's 10,500 line kilometre airborne survey was processed and interpreted, and has sharpened the imagery of the main structural boundaries across the Yorke Peninsula. The combined gravity and magnetic data is also aiding in the detection of large-scale faults, estimated depths to basement, and the potential composition of the basement rocks. The data is an essential component for the subsurface model of where hydrogen may be coming from, as well as potential migration routes.

A sample of the processed and interrupted survey can be seen below in **Figure 2**.

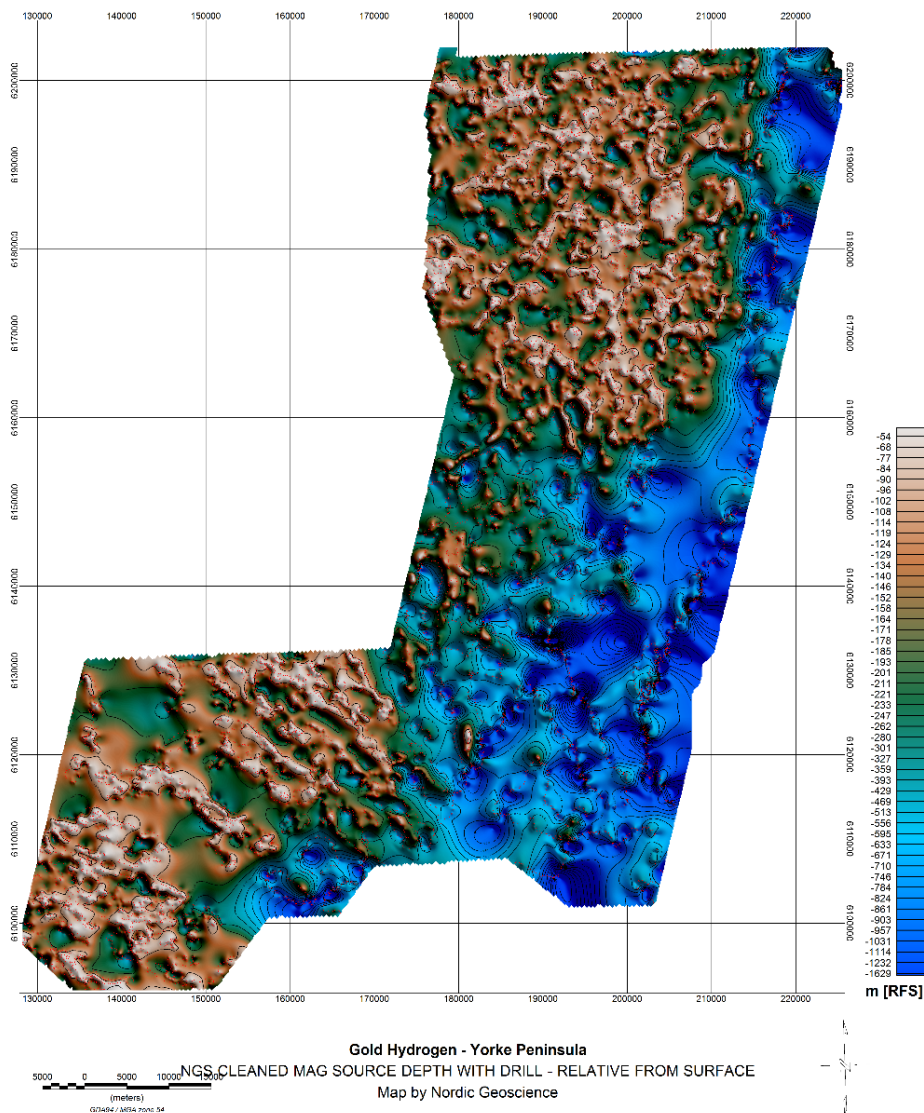


Figure 2 – Sample of the suite of images from interpreted airborne data

Ramsay Project Site Activities and Drilling

During the period the Group primarily focussed its efforts on a range of activities which culminated in approval to commence Australia's first natural hydrogen drilling program. These activities included target selection, land access arrangements, Cultural Heritage clearance, environmental approvals, community engagement and preliminary site works. After receipt of all required clearances and approvals, the Savanna Energy drilling rig and SLB geological services mobilised to site with drilling operations at the Ramsay 1 well commencing on 11 October 2023.

Ramsay 1 was successfully drilled to a depth of 1005m, with high concentrations of hydrogen (up to 73.3% air corrected) found in the well. Helium was also detected in downhole samples, at 1.6% raw gas. Extensive geological data was obtained including wire line logs, sidewall cores and cuttings. The well was suspended with an open hole pre-perforated liner to await well testing operations.

Following the initial success of the Ramsay 1 well, the Group elected to move onto drilling at Ramsay 2, which commenced on 17 November 2023. Ramsay 2 was successfully drilled to a total depth of 1068m. Similar to Ramsay 1, the well was drilled without incident and encountered very high levels of hydrogen (up to 86% air corrected) and helium (6.3% raw gas). Logging operations were successfully completed, and casing was securely cemented in place.

A summary of the hydrogen results from the Ramsay 1 and Ramsay 2 wells is outlined below in **Table 1**. The Group's Prospective Resource statement for hydrogen is outlined in **Table 2** and the Group's Prospective Resource Statement for helium is outlined in **Table 3**.

	Ramsay 2		Ramsay 1		Ramsay Oil Bore 1	
Formation	DQ1000		Isojar		Fluid Sample	
	Depth (m)	H2 %	Depth (m)	H2 %	Depth (m)	H2 %
Parara	194 - 199	86.26%	240	73.30%	240	76%
Parara	288 - 293	81.76%			260	73.10%
Kulpara	531 - 536	80.92%			507	89.30%

Table 1 - Summary of Hydrogen Results for Ramsay 1 and Ramsay 2 (Compared with the historical Ramsay 1 Oil Bore from 1931)

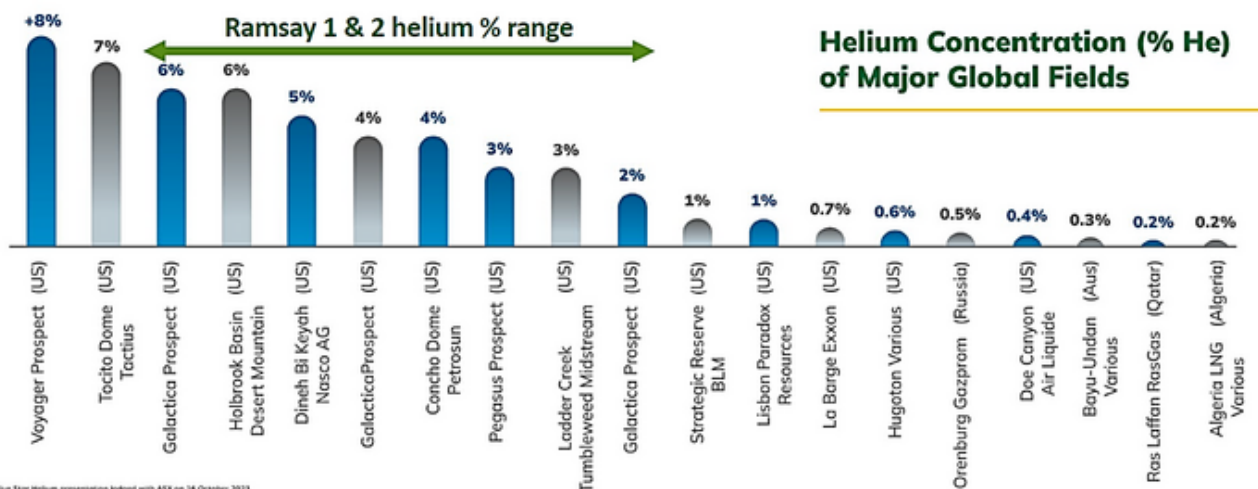


Figure 3: Range of helium results (non-air corrected) from Ramsay 1 and Ramsay 2. These are exploration results only. The Group will work toward the generation of a prospective resource for helium in 2024.

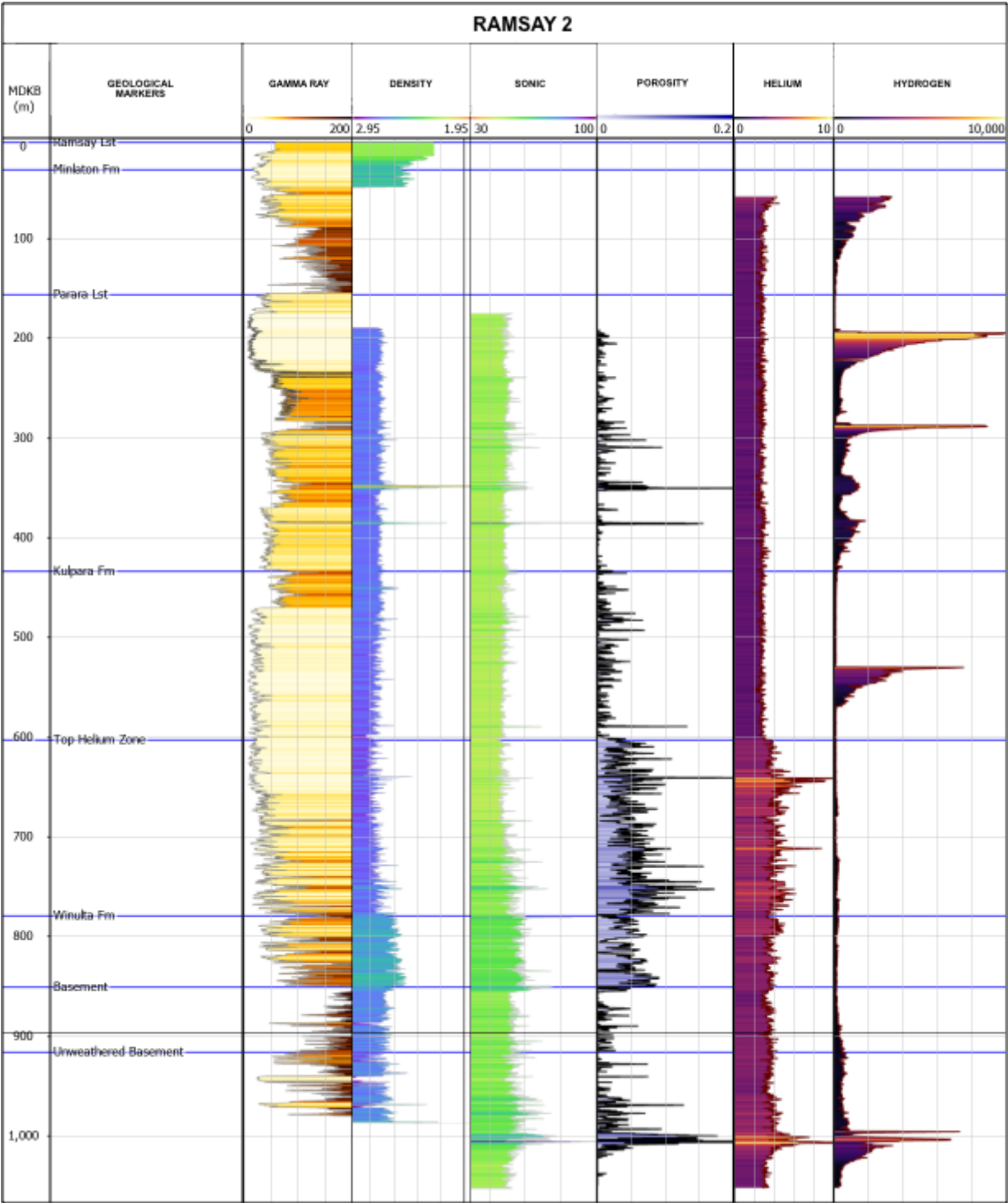


Figure 4: Ramsay 2 well with logs, including the helium and hydrogen continuous mud gas logs

Ramsay Project Pilot Plant

Two non-binding but potentially landmark MOU's were signed in the quarter with Wasco Energy and H2Site for the parties to work collaboratively towards the development of a proof of concept natural hydrogen and helium pilot project in the Ramsay Project area.

The parties will aim to design and potentially develop small scale pilot facilities to enable the production of Australia's first natural hydrogen and helium field. Development concepts could include the onsite purification and compression of hydrogen and helium for sale into the South Australian market, or other onsite uses such as power generation (for the hydrogen). This would represent an important step in the process of enabling the full potential of the Ramsay area to be evaluated from a commercial perspective, and could also create the first natural hydrogen pilot plant of this nature in Australia.

Executive Appointments

During the period Gold Hydrogen appointed two executives to assist with the exploration and evaluation of its projects, being Dr Josh Whitcombe commencing as Chief Operating Officer on 1 July 2023, and Mr Frank Glass commencing as Chief Exploration Adviser on 5 September 2023.

Capital Raising and Funding

In December 2023 the Group raised gross proceeds of \$14,805,000 at \$0.75 per share via a placement to existing and new institutional and sophisticated investors, conducted on the Group's behalf by Morgans Corporate Limited. The proceeds raised will primarily be used to fund and advance a work plan to undertake further exploration, well testing and project development related activities on the Ramsay Project.

During the period, the Group finalised and lodged its 2023 taxation and AusIndustry compliance requirements, incorporating an R&D offset claim of \$1,912,083 based on the pioneering and experimental nature of the Group's exploration program. This amount was received by the Group in January 2024.

Table 2 – Prospective Resource Statement for Natural Hydrogen

Gold Hydrogen's Ramsay Project: Prospective Resources* of Hydrogen in '000 Tonnes – 30 September 2021

PEL	Prospects	SPE PRMS Sub-class	1U Low Estimate	2U Best Estimate	Mean	3U High Estimate	Pg	Pd	Pc
PEL 687	All Prospects and Leads		207	1313	4187	8820	22%	48%	10%
Yorke Peninsula PEL 687	Ramsay FB	Prospect	124	931	2712	6989	22%	50%	11%
PEL 687	Ramsay Lst	Prospect	10	70	191	492	26%	50%	13%
PEL 687	Maitland	Lead	7	26	40	92	17%	35%	6%
Kangaroo Island PEL 687	Navigator	Lead	34	152	280	678	19%	40%	8%
PEL 687	Kanmantoo	Prospect	32	134	237	569	25%	40%	10%

* **This estimate of Natural Hydrogen Prospective Resources must be read in conjunction with the notes in the Company's ASX release of 13 January 2023.**

It should be noted that the estimated quantities of Natural Hydrogen that may potentially be recovered by the application of a future development project(s) relate to undiscovered accumulations. These estimates have both an associated risk of discovery and a risk of development. Further exploration, appraisal and evaluation is required to determine the existence of a significant quantity of potentially recoverable Natural Hydrogen.

QPRRE Statement

This Prospective Resource Statement for Natural Hydrogen has been included in this document under the approval of Mr Billy Hadi Subrata, Chief Engineer for Gold Hydrogen, who is a Qualified Petroleum Reserves and Resources Evaluator. Mr Hadi Subrata confirms that, as at the date of this document, there is no change to information or additional information, since the effective date of 30 September 2021, that would materially change the estimates of prospective resources quoted.

Table 3 – Helium Prospective Resources within the Ramsay Project area and PEL 687

Gold Hydrogen Prospective Resources* of Helium in Bcf - Ramsay Project (PEL 687 Yorke Peninsula) 21 February 2024

PEL	Prospects	SPE PRMS Sub-class	Formation	1U Low Estimate	2U Best Estimate	Mean	3U High Estimate	Pg	Pd	Pc
PEL 687	All Prospects		All Formations Total	7	41	96	243	17%	60%	10%
PEL 687	Ramsay Fault Block	Prospect	Kulpara Formation	0.8	3.6	7.0	17.1	29%	60%	17%
			Winulta Formation	0.1	0.6	1.6	4.0	12%	60%	7%
			Fractured Basement	0.7	3.8	6.9	16.7	13%	60%	8%
			Total	2	8	15	38	20%	60%	12%
PEL 687	South of Ramsay Fault Block	Prospect	Kulpara Formation	2.1	12.8	30.5	77.6	23%	60%	14%
			Winulta Formation	0.3	2.4	7.7	19.8	8%	60%	5%
			Fractured Basement Hilbata Suite	1.6	10.3	25.5	65.2	12%	60%	7%
			Fractured Basement Yorke Peninsula Heel	1.4	7.7	17.0	42.7	12%	60%	7%
			Total	5	33	81	205	16%	60%	10%

* This estimate of Helium Prospective Resources must be read in conjunction with the notes in the Company's ASX release of 21 February 2024.

It should be noted that the estimated quantities of Helium that may potentially be recovered by the application of a future development project(s) relate to undiscovered accumulations. These estimates have both an associated risk of discovery and a risk of development. Further exploration, appraisal and evaluation is required to determine the existence of a significant quantity of potentially recoverable Helium.

QPRRE Statement

This Prospective Resource Statement for Helium has been included in this document under the approval of Mr Billy Hadi Subrata, Chief Engineer for Gold Hydrogen, who is a Qualified Petroleum Reserves and Resources Evaluator. Mr Hadi Subrata confirms that, as at the date of this document, there is no change to information or additional information, since the effective date of 21 February 2024, that would materially change the estimates of prospective resources quoted.

Significant changes in the state of affairs

On 13 December 2023, the Group issued 19,740,000 fully paid ordinary shares at \$0.75 per share to institutional investors (refer to note 7). The proceeds raised will fund and advance a work plan to undertake further exploration, well testing and project development-related activities on the Ramsay Project.

The Group's carrying value of its exploration and evaluation assets increased by a net \$7,431,800 during the year half-year (refer to note 4 for full).

On 21 February 2024, the Group published its independently determined Prospective Resource Statement for helium, as outlined in Table 3 above.

There were no other significant changes in the state of affairs of the Group during the financial half-year.

Matters subsequent to the end of the financial half-year

On 24 January 2024, the Group received \$1,912,083 from the Australian Taxation Office by way of Research & Development cashback on funds that it spent for the financial year ended 30 June 2023.

On 21 February 2024, the Group published its independently determined Prospective Resource Statement for helium.

No other matter or circumstance has arisen since 31 December 2023 that has significantly affected, or may significantly affect the Group's operations, the results of those operations, or the Group's state of affairs in future financial years.

Climate and sustainability risks and opportunities

The Group's 2023 Annual and Sustainability Reports both contain comprehensive disclosures regarding the Group's governance approach to climate change risks and opportunities. The Group's overall strategy is to be part of the solution to climate change, and a decreased reliance on fossil fuels, by focussing on the exploration and development of 'gold' hydrogen as a naturally generated, low-carbon, sustainable and affordable energy source.

In short, the Group does not consider that it has material exposure to the risks traditionally associated with climate change, and therefore does not consider it necessary to reflect any financial impact associated with climate change risks. Conversely, the Group believes that the global focus on climate change related issues presents it with a number of current and potential future opportunities. These are outlined in the Group's 2023 Annual and Sustainability Reports.

Material business risks

A full description of the risks identified by the Group is outlined within Section 5 of the Replacement Prospectus dated 29 November 2022 and available via the Gold Hydrogen website (www.goldhydrogen.com.au). These risks are also addressed in the Group's 2023 Annual Report, covering:

- Exploration and evaluation risks
- Land access risks
- Native Title and Cultural Heritage risks
- Resource and reserves estimation risks
- Tenement risks
- Future funding risks

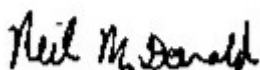
The Group's Board and Executive team continue their efforts to mitigate these risks as they progress the Group's project exploration and evaluation initiatives.

Auditor's independence declaration

A copy of the auditor's independence declaration as required under section 307C of the Corporations Act 2001 is set out immediately after this Directors' report.

This report is made in accordance with a resolution of Directors, pursuant to section 306(3)(a) of the Corporations Act 2001.

On behalf of the Directors



Neil McDonald
Managing Director

13 March 2024



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DECLARATION OF INDEPENDENCE BY R M SWABY TO THE DIRECTORS OF GOLD HYDRGOGEN LIMITED

As lead auditor for the review of Gold Hydrogen Limited for the half-year ended 31 December 2023, I declare that, to the best of my knowledge and belief, there have been:

1. No contraventions of the auditor independence requirements of the *Corporations Act 2001* in relation to the review; and
2. No contraventions of any applicable code of professional conduct in relation to the review.

This declaration is in respect of Gold Hydrogen Limited and the entities it controlled during the period.

A handwritten signature in black ink, appearing to read 'R M Swaby', is written over a light grey circular watermark.

R M Swaby
Director

BDO Audit Pty Ltd

Brisbane, 13 March 2024

Gold Hydrogen Limited

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31 December 2023

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General information

The financial statements cover Gold Hydrogen Limited as a Group consisting of Gold Hydrogen Limited and the entities it controlled at the end of, or during, the half-year. The financial statements are presented in Australian dollars, which is Gold Hydrogen Limited's functional and presentation currency.

Gold Hydrogen Limited is a listed public company limited by shares, incorporated and domiciled in Australia. Its registered office and principal place of business is:

Level 14
110 Eagle Street
Brisbane
QLD 4000

A description of the nature of the Group's operations and its principal activities are included in the Directors' report, which is not part of the financial statements.

The financial statements were authorised for issue, in accordance with a resolution of Directors, on 13 March 2024.

Gold Hydrogen Limited
Statement of profit or loss and other comprehensive income
For the half-year ended 31 December 2023

		Consolidated	
	Note	31 Dec 2023	31 Dec 2022
		\$	\$
Other income			
Interest revenue		171,469	285
Expenses			
Depreciation		(28,059)	(25,552)
Employee benefits expense		(885,469)	(516,885)
Insurance		(113,101)	(92,815)
Legal		(18,088)	(286,071)
Movement in fair value of convertible note derivative		-	(1,161,559)
Listing fees and share registry expenses		(54,816)	(117,960)
Public relations		(114,122)	(40,433)
Transaction costs in connection with IPO		-	(30,232)
Travel		(55,467)	(80,836)
Other expenses		(183,802)	(164,769)
Finance costs		(2,680)	(1,914,061)
Total expenses		<u>(1,455,604)</u>	<u>(4,431,173)</u>
Loss before income tax expense		(1,284,135)	(4,430,888)
Income tax expense		-	-
Loss after income tax expense for the half-year attributable to the owners of Gold Hydrogen Limited		(1,284,135)	(4,430,888)
Other comprehensive income for the half-year, net of tax		-	-
Total comprehensive income for the half-year attributable to the owners of Gold Hydrogen Limited		<u>(1,284,135)</u>	<u>(4,430,888)</u>
		Cents	Cents
Basic earnings per share	10	(0.9)	(5.6)
Diluted earnings per share	10	(0.9)	(5.6)

The above statement of profit or loss and other comprehensive income should be read in conjunction with the accompanying notes

Gold Hydrogen Limited
Statement of financial position
As at 31 December 2023

		Consolidated	
	Note	31 Dec 2023	30 Jun 2023
		\$	\$
Assets			
Current assets			
Cash and cash equivalents		13,458,642	5,243,380
Trade and other receivables	3	3,028,968	237,172
Term deposits		7,000,000	11,000,000
Other current assets		10,108	4,663
Total current assets		23,497,718	16,485,215
Non-current assets			
Property, plant and equipment		15,215	13,471
Right-of-use assets		77,446	103,261
Exploration and evaluation assets	4	14,439,848	7,008,048
Other non-current assets		430,050	29,104
Total non-current assets		14,962,559	7,153,884
Total assets		38,460,277	23,639,099
Liabilities			
Current liabilities			
Trade and other payables	5	2,058,773	402,048
Lease liabilities		54,272	51,357
Employee benefits		36,336	-
Provisions	6	30,000	-
Total current liabilities		2,179,381	453,405
Non-current liabilities			
Lease liabilities		29,059	57,275
Provisions	6	226,885	-
Total non-current liabilities		255,944	57,275
Total liabilities		2,435,325	510,680
Net assets		36,024,952	23,128,419
Equity			
Issued capital	7	43,347,439	29,320,673
Reserves		341,448	187,546
Accumulated losses		(7,663,935)	(6,379,800)
Total equity		36,024,952	23,128,419

The above statement of financial position should be read in conjunction with the accompanying notes

Gold Hydrogen Limited
Statement of changes in equity
For the half-year ended 31 December 2023

	Issued capital \$	Share-based payments reserve \$	Accumulated losses \$	Total deficiency in equity \$
Consolidated				
Balance at 1 July 2022	100	-	(1,194,017)	(1,193,917)
Loss after income tax expense for the half-year	-	-	(4,430,888)	(4,430,888)
Other comprehensive income for the half-year, net of tax	-	-	-	-
Total comprehensive income for the half-year	-	-	(4,430,888)	(4,430,888)
<i>Transactions with owners in their capacity as owners:</i>				
Share-based payments	-	65,425	-	65,425
Balance at 31 December 2022	100	65,425	(5,624,905)	(5,559,380)

	Issued capital \$	Share-based payments reserve \$	Accumulated losses \$	Total equity \$
Consolidated				
Balance at 1 July 2023	29,320,673	187,546	(6,379,800)	23,128,419
Loss after income tax expense for the half-year	-	-	(1,284,135)	(1,284,135)
Other comprehensive income for the half-year, net of tax	-	-	-	-
Total comprehensive income for the half-year	-	-	(1,284,135)	(1,284,135)
<i>Transactions with owners in their capacity as owners:</i>				
Contributions of equity, net of transaction costs (note 7)	14,026,766	-	-	14,026,766
Share-based payments (note 11)	-	153,902	-	153,902
Balance at 31 December 2023	43,347,439	341,448	(7,663,935)	36,024,952

The above statement of changes in equity should be read in conjunction with the accompanying notes

Gold Hydrogen Limited
Statement of cash flows
For the half-year ended 31 December 2023

		Consolidated	
	Note	31 Dec 2023	31 Dec 2022
		\$	\$
Cash flows from operating activities			
Payments to suppliers and employees		(1,966,580)	(1,258,087)
Interest received		55,094	-
Interest and other finance costs paid		(2,680)	(6,168)
Net cash used in operating activities		(1,914,166)	(1,264,255)
Cash flows from investing activities			
Payments for property, plant and equipment		(3,988)	(10,520)
Payments for exploration and evaluation assets		(7,467,103)	(1,718,967)
Payments for security deposits		(400,946)	-
Proceeds from term deposits		4,000,000	-
Proceeds from release of security deposits		-	2,401
Net cash used in investing activities		(3,872,037)	(1,727,086)
Cash flows from financing activities			
Proceeds from issue of shares	7	14,805,000	-
Share issue transaction costs	7	(778,234)	(90,939)
Principal element of lease liabilities		(25,301)	(22,916)
Net cash from/(used in) financing activities		14,001,465	(113,855)
Net increase/(decrease) in cash and cash equivalents		8,215,262	(3,105,196)
Cash and cash equivalents at the beginning of the financial half-year		5,243,380	4,258,507
Cash and cash equivalents at the end of the financial half-year		13,458,642	1,153,311

The above statement of cash flows should be read in conjunction with the accompanying notes

Note 1. Material accounting policy information

These general purpose financial statements for the interim half-year reporting period ended 31 December 2023 have been prepared in accordance with Australian Accounting Standard AASB 134 'Interim Financial Reporting' and the Corporations Act 2001, as appropriate for for-profit oriented entities. Compliance with AASB 134 ensures compliance with International Financial Reporting Standard IAS 34 'Interim Financial Reporting'.

These general purpose financial statements do not include all the notes of the type normally included in annual financial statements. Accordingly, these financial statements are to be read in conjunction with the annual report for the year ended 30 June 2023 and any public announcements made by the Company during the interim reporting period in accordance with the continuous disclosure requirements of the Corporations Act 2001.

The accounting policies adopted are consistent with those of the previous financial year and corresponding interim reporting period, except for the policies stated below.

Government Grants

Government grants, including R&D rebates, are recognised at their fair value when there is a reasonable assurance that the grant will be received. Grants related to exploration expenditure are recognised as a credit to the exploration expenditure carried forward, whilst the treatment of exploration expenditure continues to meet the requirements of AASB 6. Should the grant relate to expenditure which has been expensed, it is recognised as other income. Grants are recognised only to the extent that the expenditure to which the grant relates has been incurred to date.

Provisions

Provisions are recognised when the Group has a present (legal or constructive) obligation as a result of a past event, it is probable the Group will be required to settle the obligation, and a reliable estimate can be made of the amount of the obligation. The amount recognised as a provision is the best estimate of the consideration required to settle the present obligation at the reporting date, taking into account the risks and uncertainties surrounding the obligation. If the time value of money is material, provisions are discounted using a current pre-tax rate specific to the liability.

To the extent that expenditure is expected to be incurred within the next 12 months, the amount is treated as a current liability, and to the extent that the expenditure is expected to be incurred outside of the next 12 months the amount is treated as a non-current liability.

New or amended Accounting Standards and Interpretations adopted

The Group has adopted all of the new or amended Accounting Standards and Interpretations issued by the Australian Accounting Standards Board ('AASB') that are mandatory for the current reporting period.

Any new or amended Accounting Standards or Interpretations that are not yet mandatory have not been early adopted.

Going concern

The financial statements have been prepared on the going concern basis, which contemplates the continuity of normal business activities and the realisation of assets and settlement of liabilities in the normal course of business. For the half-year ended 31 December 2023, the Group incurred a loss after income tax of \$1,284,135 and net cash outflows from operating activities of \$1,914,166. Following a successful capital raising of \$14,805,000 in early December 2023, the Group had net current assets of \$21,318,337 and total net assets of \$36,024,952 as at 31 December 2023.

On 24 January 2024, the Group received \$1,912,083 from the Australian Taxation Office by way of Research & Development cashback on funds that it spent for the financial year ended 30 June 2023.

The Directors believe that the Group will continue as a going concern and that it is appropriate to adopt the going concern basis in the preparation of the financial report based on forecast cash flows, which indicate that the Group will have sufficient cash flows to meet its commitments and working capital requirements for a period well in excess of 12 months.

At the date of this report and having considered the above factors, the Directors are of the opinion that the Group will be able to continue as a going concern.

Note 2. Operating segments

Identification of reportable operating segments

The Group has identified its operating segments based on the internal reports that are reviewed and used by the Group's Board of Directors (chief operating decision makers) in assessing performance and determining the allocation of resources. The Group is managed primarily on a geographic basis that is the location of the respective areas of interest (tenements) in Australia. Operating segments are determined on the basis of financial information reported to the Board which is at the Group level.

The Group does not have any products/services it derives revenue from.

Management identifies the Group as having only one operating segment, being the exploration and development of its PEL tenements in South Australia. All significant operating decisions are based upon analysis of the Group as one segment. The financial results from the segment are equivalent to the financial statements of the Group as a whole.

Note 3. Trade and other receivables

	Consolidated	
	31 Dec 2023	30 Jun 2023
	\$	\$
<i>Current assets</i>		
Other receivables	75	-
Research and development tax incentive	1,912,083	-
Interest receivable	283,644	167,269
BAS receivable	833,166	69,903
	<u>3,028,968</u>	<u>237,172</u>

Note 4. Exploration and evaluation assets

	Consolidated	
	31 Dec 2023	30 Jun 2023
	\$	\$
<i>Non-current assets</i>		
Exploration and evaluation - at cost	<u>14,439,848</u>	<u>7,008,048</u>

Reconciliations

Reconciliations of the written down values at the beginning and end of the current financial half-year are set out below:

Consolidated	Exploration and evaluation
	\$
Balance at 1 July 2023	7,008,048
Additions	9,086,998
Rehabilitation provision (note 6)	256,885
Research and development tax offset refund*	<u>(1,912,083)</u>
Balance at 31 December 2023	<u>14,439,848</u>

- * The Group lodged an R&D Tax Incentive application with AusIndustry in respect of work performed on the Ramsay Project during the financial year ended 30 June 2023. The refund was received on 24 January 2024.

Gold Hydrogen Limited
Notes to the financial statements
31 December 2023

Note 5. Trade and other payables

	Consolidated	
	31 Dec 2023	30 Jun 2023
	\$	\$
<i>Current liabilities</i>		
Trade payables	1,279,610	130,619
Accrued expenses	779,163	271,429
	<u>2,058,773</u>	<u>402,048</u>

Note 6. Provisions

	Consolidated	
	31 Dec 2023	30 Jun 2023
	\$	\$
<i>Current liabilities</i>		
Provision for rehabilitation	30,000	-
<i>Non-current liabilities</i>		
Provision for rehabilitation	226,885	-
	<u>256,885</u>	<u>-</u>

Movements in provisions

Movements in each class of provision during the current financial half-year, other than employee benefits, are set out below:

	Provision for rehabilitation
	\$
Consolidated - 31 Dec 2023	
Carrying amount at the start of the half-year	-
Additional provisions recognised (note 4)	256,885
Carrying amount at the end of the half-year	<u>256,885</u>

Note 7. Issued capital

	Consolidated			
	31 Dec 2023	30 Jun 2023	31 Dec 2023	30 Jun 2023
	Shares	Shares	\$	\$
Ordinary shares - fully paid	159,740,000	140,000,000	43,347,439	29,320,673

Movements in ordinary share capital

Details	Date	Shares	Issue price	\$
Balance	1 July 2023	140,000,000		29,320,673
Institutional placement	13 December 2023	19,740,000	\$0.75	14,805,000
Share issue costs				(778,234)
Balance	31 December 2023	<u>159,740,000</u>		<u>43,347,439</u>

Institutional placement

On 13 December 2023, the Company issued 19,740,000 fully paid ordinary shares at \$0.75 per share to institutional investors.

Gold Hydrogen Limited
Notes to the financial statements
31 December 2023

Note 8. Related party transactions

Transactions with related parties

The following transactions occurred with related parties:

	Consolidated	
	31 Dec 2023	31 Dec 2022
	\$	\$
Payment for goods and services:		
Payment for services from other related party*	-	73,309
Share based payments**	5,501	-

* The Company was provided with land access support and integrated approvals by a company jointly controlled by the wife of a former Director (John (Luke) Titus). The contract ended in November 2022 and transactions were made on normal commercial terms and conditions, with personnel charged on an hourly basis at prevailing market rates for professionals in this field.

** During the period, unlisted options were granted to key employees and consultants, two of which are considered by the Company to represent Key Management Personnel for the purposes of AASB 124. The amount above represents the portion of the share based payments expense for the period attributable to the Company's Chief Exploration Advisor and its Chief Operating Officer. Refer to note 11 for the terms and conditions of these options.

Receivable from and payable to related parties

There were no trade receivables from or trade payables to related parties at the current and previous reporting date.

Loans to/from related parties

There were no loans to or from related parties at the current and previous reporting date.

Terms and conditions

All transactions were made on normal commercial terms and conditions and at market rates.

Note 9. Events after the reporting period

On 24 January 2024, the Group received \$1,912,083 from the Australian Taxation Office by way of Research & Development cashback on funds that it spent for the financial year ended 30 June 2023.

On 21 February 2024, the Group published its independently determined Prospective Resource Statement for helium.

No other matter or circumstance has arisen since 31 December 2023 that has significantly affected, or may significantly affect the Group's operations, the results of those operations, or the Group's state of affairs in future financial years.

Note 10. Earnings per share

	Consolidated	
	31 Dec 2023	31 Dec 2022
	\$	\$
Loss after income tax attributable to the owners of Gold Hydrogen Limited	(1,284,135)	(4,430,888)
	Number	Number
Weighted average number of ordinary shares used in calculating basic earnings per share	142,038,369	79,076,977
Weighted average number of ordinary shares used in calculating diluted earnings per share	142,038,369	79,076,977
	Cents	Cents
Basic earnings per share	(0.9)	(5.6)
Diluted earnings per share	(0.9)	(5.6)

Note 10. Earnings per share (continued)

At 31 December 2023, the Company had 5,160,000 options on issue that are not included in the determination of diluted earnings per share as they are considered to be anti-dilutive.

Note 11. Share-based payments

Unlisted options

During the half-year ended 31 December 2023, the Company granted 1,860,000 options to key staff and consultants as part of their remuneration packages. The options vest in 3 equal tranches as set out in the following table:

	Vesting date	Condition	Exercise price	Expiry date
Tranche 1	11 July 2024	The market value (based on a 20-day VWAP calculation) for one share on the Company reaching \$0.75	\$0.75 each	11 January 2026
Tranche 2	11 January 2025	The market value (based on a 20-day VWAP calculation) for one share on the Company reaching \$1.00	\$1.00 each	11 January 2027
Tranche 3	11 January 2026	The market value (based on a 20-day VWAP calculation) for one share on the Company reaching \$1.75	\$1.75 each	11 January 2027

Vesting occurs when the Condition outlined above is satisfied on a one-time basis before the Vesting Date (i.e. it is not required to be sustained between satisfaction and exercise or expiry). Options will expire on the Vesting Date if the Condition is not satisfied. Upon termination of employment, unvested options expire immediately, and vested options may be exercised up to 90 days after employment, after which they expire.

Set out below are summaries of options granted:

31 Dec 2023

Grant date	Expiry date	Exercise price	Balance at the start of the half-year	Granted	Exercised	Expired/ forfeited/ other	Balance at the end of the half-year
31/10/2022	11/01/2026	\$0.75	600,000	-	-	-	600,000
31/10/2022	11/01/2027	\$1.00	600,000	-	-	-	600,000
31/10/2022	11/01/2027	\$1.75	600,000	-	-	-	600,000
01/11/2022	11/01/2026	\$0.75	200,000	-	-	-	200,000
01/11/2022	11/01/2027	\$1.00	200,000	-	-	-	200,000
01/11/2022	11/01/2027	\$1.75	200,000	-	-	-	200,000
02/11/2022	11/01/2026	\$0.75	100,000	-	-	-	100,000
02/11/2022	11/01/2027	\$1.00	100,000	-	-	-	100,000
02/11/2022	11/01/2027	\$1.75	100,000	-	-	-	100,000
04/11/2022	11/01/2026	\$0.75	200,000	-	-	-	200,000
04/11/2022	11/01/2027	\$1.00	200,000	-	-	-	200,000
04/11/2022	11/01/2027	\$1.75	200,000	-	-	-	200,000
29/11/2023	11/01/2026	\$0.75	-	620,000	-	-	620,000
29/11/2023	11/01/2027	\$1.00	-	620,000	-	-	620,000
29/11/2023	11/01/2027	\$1.75	-	620,000	-	-	620,000
			3,300,000	1,860,000	-	-	5,160,000
Weighted average exercise price			\$1.17	\$1.17	\$0.00	\$0.00	\$1.17

Note 11. Share-based payments (continued)

The weighted average remaining contractual life of options outstanding at the end of the financial half-year was 2.7 years.

For the options granted during the current financial half-year, the valuation model inputs used to determine the fair value at the grant date, are as follows:

Grant date	Expiry date	Share price at grant date	Exercise price	Expected volatility	Dividend yield	Risk-free interest rate	Fair value at grant date
29/09/2023	11/01/2026	\$0.22	\$0.75	86.98%	-	4.11%	\$0.019
29/09/2023	11/01/2027	\$0.22	\$1.00	86.98%	-	4.08%	\$0.035
29/09/2023	11/01/2027	\$0.22	\$1.75	86.98%	-	4.08%	\$0.037

An expense of \$153,902 has been recognised in the profit or loss for the period as part of employee benefits (\$143,224 related to the IPO options and \$10,658 related to the options granted during the period), which recognises the fair value of the unlisted options amortised for the period ended 31 December 2023.

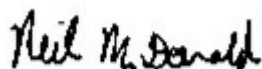
Gold Hydrogen Limited
Directors' declaration
31 December 2023

In the Directors' opinion:

- the attached financial statements and notes comply with the Corporations Act 2001, Australian Accounting Standard AASB 134 'Interim Financial Reporting', the Corporations Regulations 2001 and other mandatory professional reporting requirements;
- the attached financial statements and notes give a true and fair view of the Group's financial position as at 31 December 2023 and of its performance for the financial half-year ended on that date; and
- there are reasonable grounds to believe that the Company will be able to pay its debts as and when they become due and payable.

Signed in accordance with a resolution of Directors made pursuant to section 303(5)(a) of the Corporations Act 2001.

On behalf of the Directors



Neil McDonald
Managing Director

13 March 2024

INDEPENDENT AUDITOR'S REVIEW REPORT

To the members of Gold Hydrogen Limited

Report on the Half-Year Financial Report

Conclusion

We have reviewed the half-year financial report of Gold Hydrogen Limited (the Company) and its subsidiaries (the Group), which comprises the consolidated statement of financial position as at 31 December 2023, the consolidated statement of profit or loss and other comprehensive income, the consolidated statement of changes in equity and the consolidated statement of cash flows for the half-year ended on that date, material accounting policy information and other explanatory information, and the directors' declaration.

Based on our review, which is not an audit, we have not become aware of any matter that makes us believe that the accompanying half-year financial report of the Group does not comply with the *Corporations Act 2001* including:

- i. Giving a true and fair view of the Group's financial position as at 31 December 2023 and of its financial performance for the half-year ended on that date; and
- ii. Complying with Accounting Standard AASB 134 *Interim Financial Reporting and the Corporations Regulations 2001*.

Basis for conclusion

We conducted our review in accordance with ASRE 2410 *Review of a Financial Report Performed by the Independent Auditor of the Entity*. Our responsibilities are further described in the *Auditor's Responsibilities for the Review of the Financial Report* section of our report. We are independent of the Company in accordance with the auditor independence requirements of the *Corporations Act 2001* and the ethical requirements of the Accounting Professional and Ethical Standards Board's APES 110 *Code of Ethics for Professional Accountants (including Independence Standards)* (the Code) that are relevant to the audit of the annual financial report in Australia. We have also fulfilled our other ethical responsibilities in accordance with the Code.

We confirm that the independence declaration required by the *Corporations Act 2001* which has been given to the directors of the Company, would be the same terms if given to the directors as at the time of this auditor's review report.

Responsibility of the directors for the financial report

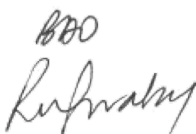
The directors of the Company are responsible for the preparation of the half-year financial report that gives a true and fair view in accordance with Australian Accounting Standards and the *Corporations Act 2001* and for such internal control as the directors determine is necessary to enable the preparation of the half-year financial report that gives a true and fair view and is free from material misstatement, whether due to fraud or error.

Auditor's responsibility for the review of the financial report

Our responsibility is to express a conclusion on the half-year financial report based on our review. ASRE 2410 requires us to conclude whether we have become aware of any matter that makes us believe that the half-year financial report is not in accordance with the *Corporations Act 2001* including giving a true and fair view of the Group's financial position as at 31 December 2023 and its financial performance for the half-year ended on that date and complying with Accounting Standard AASB 134 *Interim Financial Reporting* and the *Corporations Regulations 2001*.

A review of a half-year financial report consists of making enquiries, primarily of persons responsible for financial and accounting matters, and applying analytical and other review procedures. A review is substantially less in scope than an audit conducted in accordance with Australian Auditing Standards and consequently does not enable us to obtain assurance that we would become aware of all significant matters that might be identified in an audit. Accordingly, we do not express an audit opinion.

BDO Audit Pty Ltd

A handwritten signature in black ink, appearing to read 'R M Swaby', is written over a faint, larger 'BDO' logo.

R M Swaby
Director

Brisbane, 13 March 2024