

**11 July 2023**

## **ASX Announcement**

### **Ramsay Project Update**

## **Major Drilling Program Suppliers Secured**

#### **Highlights:**

- **Drilling Services contracts awarded to internationally recognised SLB (formerly Schlumberger) and Savanna Energy.**
- **Key locations identified for the first natural hydrogen focused exploration well in Australia.**
- **Key land access agreements in place.**
- **Regulatory approval process is well underway and advanced.**
- **Drilling scheduled and on track to commence in October 2023.**
- **Further planning in place to accelerate a second well at the Company's option.**

Further to the Company's previous market release of 6 June 2023, the Directors of Gold Hydrogen Limited (**Gold Hydrogen, ASX: GHY, the Company**) are pleased to provide an update in relation to the Company's continued progress in relation to its flagship Ramsay Project.

#### **Drilling Program Suppliers**

As a result of the Company's recent tender and procurement processes, drilling and services contracts have been agreed with internationally recognised SLB (formerly Schlumberger) and Savanna Energy Services (Savanna Energy).

International Drilling Contractor, Savanna Energy has been engaged to provide drilling services for the Company's first exploration well on the Ramsay Project, which is designed to replicate the results of the historic Ramsay Oil Bore 1 which encountered natural hydrogen of up to 89% purity (on an air-corrected basis). Savanna Energy has extensive international and domestic experience in drilling minimal disturbance conventional and unconventional wells in prime agricultural areas of Queensland.

The Company believes that this minimal disturbance style of drilling will mitigate any disruptions and impacts within the local community.

SLB, who have been involved with the Ramsay Project from inception, will continue to provide their specialist services which include geological services, mud logging and wireline services, as well as cementing services for the well. This builds on the geological support Gold Hydrogen has received from SLB over the past 2 years. SLB is a world class Oil and Gas service company and will bring their knowledge and experience to the Ramsay Project.

Other required contracts for affiliated services will be awarded in the coming weeks.

### **Permitting and Stakeholder Engagement**

Gold Hydrogen has submitted the required approvals to the Department of Energy and Mines and the review is well progressed with approvals expected to be issued in September.

As part of the approval process and general community and key stakeholder engagement plans, Gold Hydrogen has undertaken regular and ongoing engagement and maintain supportive and good relationships with the stakeholders.

### **Land Access Arrangements**

As previously advised, a number of multi-year land access arrangements have been agreed, providing the Company with a range of locations for its initial exploration well, as well as options for subsequent exploration wells.

This includes access to the site of the historic Ramsay Oil Bore 1 near Minlaton on the Yorke Peninsula where historic occurrences of natural hydrogen were encountered at up to 89% purity (on an air corrected basis).

This enables the Company to deliver against its objective of twinning the original well as its initial exploration well will be located adjacent to the historic well where occurrences of natural hydrogen were encountered. Further details are outlined below.

A second well location has been scouted, with land access approval now in place. This will provide Gold Hydrogen with the option of accelerating a potential second well before the end of the year.

### **Ramsay Project Objectives**

From a technical perspective, the primary objectives of the Ramsay Project are to:

- (i) progress its natural hydrogen Prospective Resources to Contingent Resources and/or Reserves. This will involve the processes of discovery, appraisal and commercialisation; and
- (ii) mature portions of the granted title PEL 687 to Production Licence areas.

Historically, natural hydrogen gas was recovered in three samples taken in Ramsay Oil Bore 1 drilled in 1931. The samples were taken at depths of 240.8m, 262.1m and 507.8m, all indicated as being within the Cambrian Parara Limestone. The Company's Prospective Resource Statement is attached as Table 1.

The first exploration well to be drilled by Gold Hydrogen is being designed and located to verify the findings of the historic Ramsay Oil Bore 1 in order to mature the historical occurrences of natural hydrogen to a 'discovery' for resource evaluation and reporting purposes. Exploration wells need to be drilled, evaluated and tested to determine the presence, producibility, extent and thus 'discovery' of hydrogen from the geological reservoirs.

It is important to note that there are both geological and potential development risks associated with the Ramsay Project and the Company's objectives as outlined above. These risks relate to the presence, producibility and potential volumes of hydrogen, but also due to the location of the resource within agricultural areas and the proximity to National Parks on both Yorke Peninsula and Kangaroo Island, requiring significant landholder and community engagement. The worldwide, National and South Australian Government and industry efforts to secure hydrogen as an alternative energy source provides confidence that any technical and social concerns may be overcome.

### **About Gold Hydrogen**

Gold Hydrogen is focused on the discovery and development of world class natural hydrogen gas in a potentially extensive natural hydrogen province in South Australia. This region has only recently had its natural hydrogen potential identified by the Company. The domestic and global demand for hydrogen, combined with new natural hydrogen exploration techniques and experienced personnel, provides Gold Hydrogen with an extraordinary opportunity to define and ultimately develop a new natural hydrogen gas province.

The combined natural hydrogen permit area of the Gold Hydrogen group is approximately 75,332km<sup>2</sup>. Gold Hydrogen holds one granted petroleum exploration license (the Ramsay Project - PEL 687) and its two 100% owned subsidiary companies (White Hydrogen Australia and Byrock Resources) hold an additional seven (7) applications for natural hydrogen exploration within South Australia.

Gold Hydrogen is also the preferred applicant for four (4) gas storage exploration licenses applications (GSELA) covering an area of 8,107km<sup>2</sup> within the Yorke Peninsula portion of PEL 687 in South Australia. These storage licence applications are in addition to the granted exploration licence and application licences.

The group's permit areas are characterised by low population densities, cooperative stakeholders and aspects of the natural environment suited to the exploration and development of a future natural hydrogen gas province. Gold Hydrogen places considerable importance on close liaison with landholders, traditional owners and all other stakeholders, and this approach has led to the grant of its key tenement PEL 687 in South Australia. The Company intends to continue to invest in these efforts.



### Further Information

Further information on the Gold Hydrogen group, its projects, and its Board and Management can be found on the Company's website ([www.goldhydrogen.com.au](http://www.goldhydrogen.com.au)) together with a copy of the Company's Replacement Prospectus of 29 November 2022.

Gold Hydrogen also has accounts on LinkedIn and Twitter ([@GHY\\_ASX](https://twitter.com/GHY_ASX)), and copies of market releases will be emailed to all interested parties who register via [info@goldhydrogen.com.au](mailto:info@goldhydrogen.com.au)

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The Board looks forward to providing regular updates to the market as preliminary exploration efforts commence on the Company's flagship Ramsay Project.

This announcement has been authorised for release by the Board.

On behalf of the Board  
Karl Schlobohm  
Company Secretary

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### **QPRRE Statement**

The Prospective Resource Statement in this announcement is based on, and fairly represents, information and supporting documentation prepared by independent consultants “Teof Rodrigues & Associates” with an effective date of 30 September 2021, and which forms part of the Company’s Replacement Prospectus dated 29 November 2022. The Prospective Resource Statement, together with all relevant notes, also appears in the Company’s ASX release of 13 January 2023.

The Prospective Resource Statement has been included in this announcement 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 announcement, 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.

### **Forward Looking Statement / Future Performance**

This announcement may contain certain forward-looking statements and opinion. Forward-looking statements, including projections, forecasts and estimates, are provided as a general guide only and should not be relied on as an indication or guarantee of future performance and involve known and unknown risks, uncertainties, assumptions, contingencies and other important factors, many of which are outside the control of the Company and which are subject to change without notice and could cause the actual results, performance or achievements of the Company to be materially different from the future results, performance or achievements expressed or implied by such statements. Past performance is not necessarily a guide to future performance and no representation or warranty is made as to the likelihood of achievement or reasonableness of any forward-looking statements or other forecast. Nothing contained in this announcement, nor any information made available to you is, or and shall be relied upon as, a promise, representation, warranty or guarantee as to the past, present or the future performance of Gold Hydrogen Limited.

**Table 1 – Prospective Resource Statement for Natural Hydrogen**

Gold Hydrogen's Ramsay Project: Prospective Resources* of Hydrogen in '000 Tonnes – 30 Sept 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	1,313	4,187	8,820		22%	48%	10%
<b>Yorke Peninsula</b>										
PEL 687	Ramsay FB	Prospect	124	931	2,712	6,989		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%
<b>Kangaroo Island</b>										
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.

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