**COMMONWEALTH OF AUSTRALIA**

***Section 312(14)***

***Offshore Petroleum and Greenhouse Gas Storage Act 2006***

**DECLARATION OF IDENTIFIED GREENHOUSE GAS STORAGE FORMATION CLIFF HEAD**

I, **HON MADELEINE KING MP**, the responsible Commonwealth Minister, hereby declare the following block to be an identified greenhouse gas storage formation.

**INTERPRETATION**

In this document, “the Act” means the *Offshore Petroleum and Greenhouse Gas Storage Act 2006*, and includes any Act with which that Act is incorporated, and words used in this document have the same respective meanings as in the Act.

**DESCRIPTION OF BLOCKS**

The reference hereunder is to the name of the map sheet of the 1:1,000,000 series prepared and established for the purposes of the Act and to numbers of the graticular sections shown thereon.

|  |  |
| --- | --- |
| **Storage Formation Name** | Cliff Head |
| **Map Sheet** | SH50 (Perth) |
| **Block Nos.** | 1235 |

Assessed to contain one block (Map at **Attachment 1**).

**ESTIMATE OF SPATIAL EXTENT**

The estimated lateral spatial extent for the Cliff Head Storage Formation is within the block described in the Table above. The vertical spatial extent of the Cliff Head Storage Formation is in the Irwin River Coal Measures and High Cliff Sandstone formations, sealed by the Kockatea Shale.

**FUNDAMENTAL SUITABILITY DETERMINANTS**

The fundamental suitability determinants of the Cliff Head Storage Formation are:

|  |  |  |
| --- | --- | --- |
| Subsection 21(8)(a) | The amount of GHG substance that is suitable to store  | Maximum storage amount of 13.4 Mt |
| Subsection 21(8)(b) | The GHG substance that is suitable to store  | >95% CO2 |
| Subsection 21(8)(c) | The injection point or points  | Single well approximately 3.2km south of the Cliff Head production platform. |
| Subsection 21(8)(d)  | The injection period | 10-20 years.  |
| Subsection 21(8)(e) | If subsection 21(1)(b) is applicable, the engineering enhancements | Plug and abandon of wells intersecting the Cliff Head Storage Formation.Management of reservoir pressure through ongoing water production. |
| Subsection 21(8)(f) | The effective sealing feature, attribute or mechanism of the storage formation that enables permanent storage  | Combination saline aquifer-structural trapping below the Triassic Kockatea Shale seal |

Dated this 10 of June 2024

Made under the *Offshore Petroleum and Greenhouse Gas Storage Act 2006*

of the Commonwealth of Australia

**HON MADELEINE KING MP**

**MINISTER FOR RESOURCES AND NORTHERN AUSTRALIA**

