

# Oil Field Carbon Capture Utilisation Storage (CCUS) Project (V2 04/07/2022)

Application Number: 01226

Commencement Date: 18/05/2022

Status: Locked

## 1. About the project

### 1.1 Project details

#### 1.1.1 Project title \*

Oil Field Carbon Capture Utilisation Storage (CCUS) Project (V2 04/07/2022)

#### 1.1.2 Project industry type \*

Mining

#### 1.1.3 Project industry sub-type

Other

#### 1.1.4 Estimated start date \*

1/07/2023

#### 1.1.4 Estimated end date \*

1/01/2031

## 1.2 Proposed Action details

### 1.2.1 Provide an overview of the proposed action, including all proposed activities. \*

The proposed activity is to conduct an industrial sized demonstration trial using a Carbon Capture Utilisation and Sequestration (CCUS) technology where Greenhouse Gas (GHG) (98% Carbon Dioxide CO<sub>2</sub>) is received from an industrial size GHG emitters such as the Milmerran Power Station (MPS) or elsewhere. It is proposed that 120,000 tonnes p.a. of the GHG is stored temporarily before being injected into the existing operating Moonie Oil Field Reservoir to a depth of 1,600 to 1,850 m below the surface for a period of 8 years. Bridgeport (Surat Basin) Pty. Ltd. has been operating the Brownfield Moonie Oil Field and holds both the Petroleum Licence (PL1) and the Environmental Authority to operate the field (please refer to Attachment 1 Pages from the EA Amendment, the Executive Summary,-May-2022).

The activities include:

1. taking delivery of the GHG (cryogenic liquid at -20oC) through a transfer facility located at the existing injection well (M - 27), this activity will not impact MNES,
2. surface storage of the GHG, construction will occur on already cleared and disturbed land with no impact on MNES,
3. pumping the gas via the existing well M - 27 into the existing oil field where it will be sequestered, this activity will not impact MNES, and
4. extensive reservoir monitoring activity through the existing 5 surrounding wells and outlying wells, this activity will not impact MNES. As the monitoring infrastructure already exists.

The GHG will be delivered to the project from the GHG post combustion capture plant at the MPS being proposed by Intergen Pty Ltd, subject to a separate approval process.

The construction of the GHG facility at well M - 27 will be on already cleared land (existing brownfield site) and will have no impact on native vegetation and given the small size of the entire project, less than 2 hectares (overall) there will be no impact on Threatened Ecological Communities. Please refer to Attachment 1a, Proposed Additional area Figure 1a - 2022.pdf). The area within the yellow hatched line is the current brownfield site around well M - 27. The area within the red hatched line is the proposed expansion of up to one additional hectare on the already cleared land.

Although local regional fauna species listed as Threatened were identified for the area by the EPBC study tool, as there is no impact on vegetation in the project area footprint and as there has been no identification of the species at the site, it is unlikely that any impact to flora and fauna will occur. As the site has been extensively cleared in the past and as the site has been highly modified it is considered unlikely that identified flora species which may occur in the region, do not have a habitat in the project area and are unlikely to occur. Brigalow and Poplar Box Woodland remnant species occur along fence lines and stock routes throughout the region however the projects footprint will not impact this community. Please note the avoidance area in Attachment 1, Figure 1a, 2022.

### 1.2.2 Is the project action part of a staged development or related to other actions or proposals in the region?

No

### 1.2.6 What Commonwealth or state legislation, planning frameworks or policy documents are relevant to the proposed action, and how are they relevant? \*

Bridgeport (Surat Basin) Pty Ltd (hereafter called "the Company" (ACN: 608515939)) operates the Moonie Oil Field under the Queensland *Petroleum Act 1923*, the *Petroleum and Gas (Production and Safety) Act 2004* and Petroleum Licence 1 (PL1) administered by the Department of Resources (DOR), and, under the *Environmental Protection Act 1994*, the existing Environmental Authority (EA) being EPPG03516215 administered by the Department of Environment and Science (DES).

The Company is seeking to progress and develop the Moonie Oil Field CCUS project at its brownfield site within its existing operations. On the 9th of September 2021, the Company applied to DES to amend the existing Moonie Oil Field EA to permit a trial "Enhanced Oil Recovery" (EOR) process using CO2 as the proponent. On the 19th of Jan 2022, DES assessed the project as a major amendment and would require an EIS process to be completed.

To progress the Project to authorise the trial injection of a GHG stream into the Moonie Anticline Oil Reservoir located in the Upper Precipice formation on PL1 under the existing EA (EPPG03516215), the Company is applying to DES to change the existing EA by assessing an EIS. As part of the EIS process, the Company submits to the Commonwealth this referral from the Queensland Department of Resources (DOR).

- a letter from the Queensland Department of Resources confirming the EOR technique as a petroleum activity (Att2 Letter from DOR-2021)

### 1.2.7 Describe any public consultation that has been, is being or will be undertaken regarding the project area, including with Indigenous stakeholders. Attach any completed consultation documentations, if relevant. \*

Consultation on the trial CCUS EOR (Enhanced Oil Recovery) injection and sequestration project at the Moonie Oil Field in the Surat Basin commenced in 2017, with the Company subsequently engaged with Commonwealth, State, and local governments; the University of Queensland, the CSIRO, landowners; native title claimants and registered parties; non- government organisations (NGOs); industry; industry peak bodies (APPEA); community groups and State and Federal Members of Parliament and Government Departments.

The project EA amendment Application and subsequent information has been advertised for comment in the local Newspaper, on the Company's website and hardcopy information available at the DES offices, on site at the Moonie Oil Field Office and the local Council. There has been no Public interest to date reflected in written enquiries or statements via any of the above channels, other than in direct discussions with landholders. Please refer to the advertisement in the Toowoomba Chronicle advertising for expressions of interest, Attachment 3, The Toowoomba Chronicle, page 51, Friday 22nd October 2021.

As the Moonie Oil Field is currently operating, it has existing Agreements with all local and affected landholders and with the Indigenous stakeholders (currently there is a Native Title Agreement and Cultural Heritage Management Plan in place for the Moonie Oil Field).

Discussions have been held with the local landholders and are scheduled for Indigenous stakeholders.

## 1.3.1 Identity: Referring party

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**Confirm that you have read and understand this Privacy Notice \***

**1.3.1.1 Is Referring party an organisation or business? \***

Yes

Referring party organisation details	
<b>ABN</b>	608515939
<b>Organisation name</b>	Bridgeport (Surat Basin ) Pty. Ltd.
<b>Organisation address</b>	L7 111 Pacific Highway North Sydney NSW 2060
Referring party details	
<b>Name</b>	Ralph Gunness
<b>Job title</b>	Group Environmental Advisor
<b>Phone</b>	02 8960 8400
<b>Email</b>	RGunness@bridgeport.net.au
<b>Address</b>	L7 111 Pacific Highway North Sydney NSW 2060

**1.3.2 Identity: Person proposing to take the action**

**1.3.2.1 Are the Person proposing to take the action details the same as the Referring party details? \***

Yes

Person proposing to take the action organisation details	
<b>ABN</b>	608515939
	Bridgeport (Surat Basin ) Pty. Ltd.

<b>Organisation name</b>	
<b>Organisation address</b>	L7 111 Pacific Highway North Sydney NSW 2060
Person proposing to take the action details	
<b>Name</b>	Ralph Gunness
<b>Job title</b>	Group Environmental Advisor
<b>Phone</b>	02 8960 8400
<b>Email</b>	RGunness@bridgeport.net.au
<b>Address</b>	L7 111 Pacific Highway North Sydney NSW 2060

#### 1.3.2.14 Are you proposing the action as part of a Joint Venture? \*

No

#### 1.3.2.15 Are you proposing the action as part of a Trust? \*

No

#### 1.3.2.17 Describe the Person proposing the action's history of responsible environmental management including details of any proceedings under a Commonwealth, State or Territory law for the protection of the environment or the conservation and sustainable use of natural resources against the Person proposing to take the action. \*

Bridgeport (Surat Basin) Pty Ltd, is a Registered Suitable Operator (reference: RSO: 000389) in accordance with the Queensland Department of Environment and Science (DES) suitable operator register, required by the EP Act. As such the Company has been operating the Moonie Oil Field without prosecution under any jurisdiction for 6 years. The Company executives have complied with all commitments given under the Petroleum Licence PL1 and the Environmental Authority EA (EPPG03516215). The Company operates all its sites under its Environmental Policy, its Operations based Environmental Management Plan and related Environmental Management Procedures.

The Company has been actively pursuing the sequestration of GHG from major industrial emitters since 2017 and is an example of the Company commitment to sustainable development and in this case contributing to the Science and Engineering leading to the removal of GHG from the atmosphere.

### 1.3.3 Identity: Proposed designated proponent

#### 1.3.3.1 Are the Proposed designated proponent details the same as the Person proposing to take the action? \*

Yes

Proposed designated proponent organisation details	
<b>ABN</b>	608515939
	Bridgeport (Surat Basin ) Pty. Ltd.

**Organisation name****Organisation address** L7 111 Pacific Highway North Sydney NSW 2060

## Proposed designated proponent details

**Name** Ralph Gunness**Job title** Group Environmental Advisor**Phone** 02 8960 8400**Email** RGunness@bridgeport.net.au**Address** L7 111 Pacific Highway North Sydney NSW 2060

## 1.3.4 Identity: Summary of allocation

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### Confirmed Referring party's identity

The Referring party is the person preparing the information in this referral.

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ABN	608515939
Organisation name	Bridgeport (Surat Basin ) Pty. Ltd.
Organisation address	L7 111 Pacific Highway North Sydney NSW 2060
Representative's name	Ralph Gunness
Representative's job title	Group Environmental Advisor
Phone	02 8960 8400
Email	RGunness@bridgeport.net.au
Address	L7 111 Pacific Highway North Sydney NSW 2060

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### Confirmed Person proposing to take the action's identity

The Person proposing to take the action is the individual, business, government agency or trustee that will be responsible for the proposed action.

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Same as Referring party information.

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### Confirmed Proposed designated proponent's identity

The Person proposing to take the action is the individual or organisation proposed to be responsible for meeting the requirements of the EPBC Act during the assessment process, if the Minister decides that this project is a controlled action.

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Same as Person proposing to take the action information.

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## 1.4 Payment details: Payment exemption and fee waiver

**1.4.1 Do you qualify for an exemption from fees under EPBC Regulation 5.23 (1) (a)? \***

No

**1.4.3 Has the department issued you with a credit note? \***

No

**1.4.5 Have you applied for or been granted a waiver for full or partial fees under Regulation 5.21A? \***

No

**1.4.7 Are you going to apply for a waiver of full or partial fees under EPBC Regulation 5.21A? \***

No

**1.4.8 Would you like to add a purchase order number to your invoice? \***

No

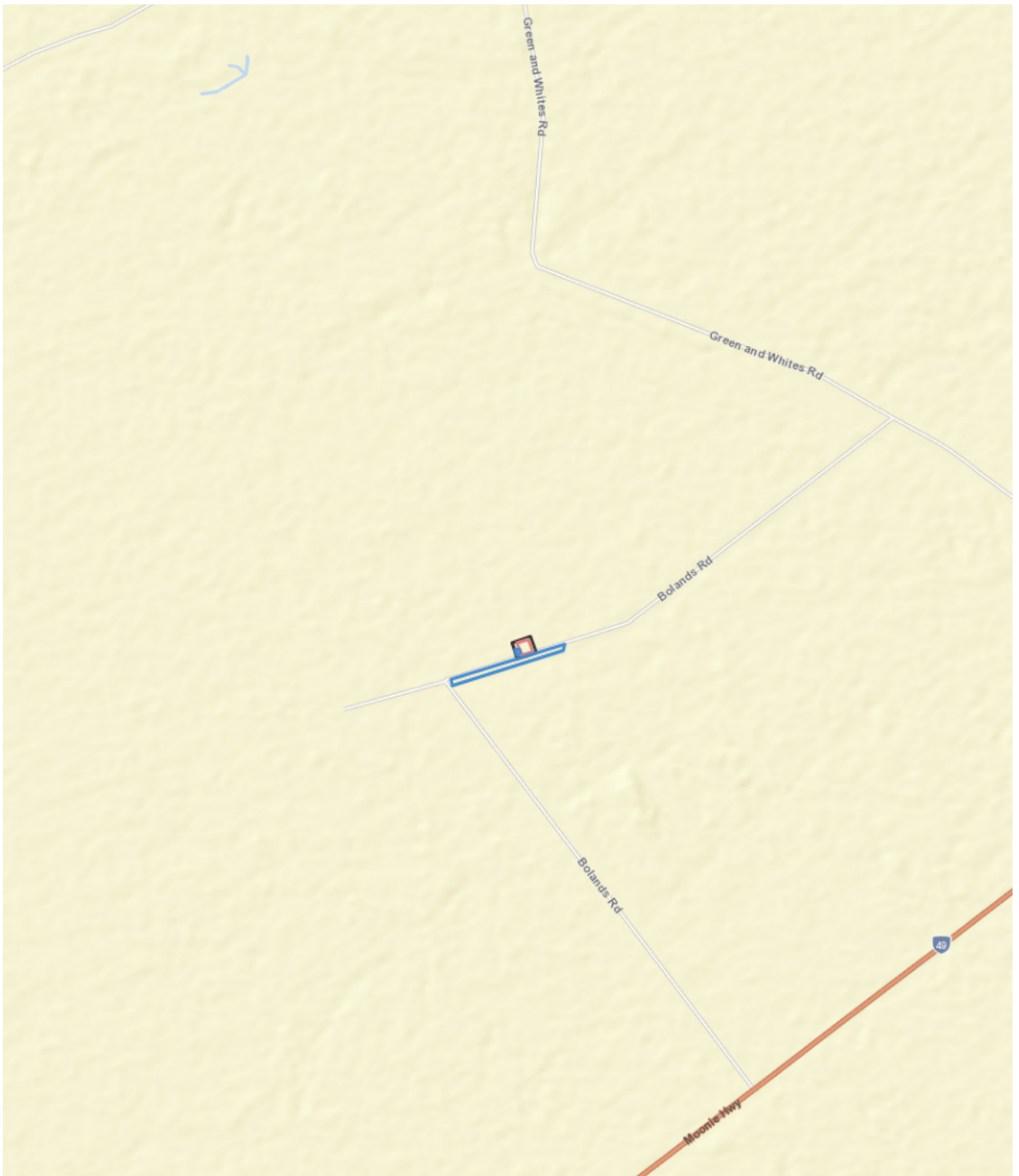
## 1.4 Payment details: Payment allocation

**1.4.10 Who would you like to allocate as the entity responsible for payment? \***

Referring party

## 2. Location

### 2.1 Project footprint



## 2.2 Footprint details

### 2.2.1 What is the address of the proposed action? \*

Moonie Oil Field, 634 Green and Whites Rd, Moonie, 4406, Queensland.

### 2.2.2 Where is the primary jurisdiction of the proposed action? \*

Queensland

**2.2.3 Is there a secondary jurisdiction for this proposed action? \***

No

**2.2.5 What is the tenure of the action area relevant to the project area? \***

The M- 27 well site is located on Freehold Land and within the Petroleum Licence No 1 (PL1) tenement.

## 3. Existing environment

### 3.1 Physical description

**3.1.1 Describe the current condition of the project area's environment.**

The project area and the surrounding local region is described as having a virtually flat topography. The immediate project and surrounding region has been subject to extensive clearing and agricultural practices for over 100 years and is listed as rural. The land adjoining all boundaries is listed as privately owner agricultural land. The immediate and surrounding area has also been exposed to permitted petroleum activities for more than 3 decades. Both activities exist and as the immediate project area is clear of any vegetation the land condition is described as disturbed land.

The Moonie Oil Field is accessed by the Moonie Highway and then via Green and Whites road both of which are sealed. The Moonie Oil Field access road (Boland Road) intersects with Green and whites Road (refer to Attachment 4)and is a formed gravel road and has been used by large scale heavy vehicles (tankers) on a daily basis for several decades.

The project area is not located within the Western Downs flood hazard zoning areas (as recently identified by the Western Downs Regional Council) and as such was not damaged in recent flood events. Although the soil was saturated and normal acceptable runoff did occur.

The proposed CCUS project is approved as a Petroleum Activity by the Queensland Department of Resources See Attachment

Identification of the line of sight distance of the project area to major towns (km) in Queensland is illustrated in Attachment 5, and listed below,

Moonie 13.5 km

Tara 55 km

Dalby 117 km

Chinchilla 115 km

Millmerran 101

Goondiwindi 90 km

Toowoomba 169 km

Roma 190 km

St George 156 km

Brisbane 283 km

### 3.1.2 Describe any existing or proposed uses for the project area.

The Moonie Oil Field (PL1) is nestled amongst agricultural land used for extensive grazing and seasonal cropping farming operations. The economic benefits to the region are discussed in more detail in an economic assessment (see Attachment 6) prepared and submitted to the Queensland DES as a supporting document to the recent Environmental Authority (May 2022) Amendment application.

Future use: It is proposed to construct the Carbon Capture Utilisation and Storage operation at well site M- 27 amongst agricultural land used for extensive grazing and cropping farming operations.

### 3.1.3 Describe any outstanding natural features and/or any other important or unique values that applies to the project area.

There are no significant specific natural features or values that apply or are relevant to the immediate area. The topography is described as nearly flat and the soil being classified as Gilgal. The Southwood National Park is located approximately 8 km to the west of the lease, however this will not be impacted by the proposal. While minor creek Toombilla Creek and the Moonie River lies 5km to the North of the project area. A recent MNES tool report has been generated and is attached. The MNES tool reported several migratory bird species for the region, however this project will not impact these species as flora will not be disturbed other than is allowed in the existing EA for petroleum activities. This matter will be discussed further in section The Bridgeport Environmental Management Plan (EMP) has specific procedures for construction and operational activities which will be applied to this project.

### 3.1.4 Describe the gradient (or depth range if action is to be taken in a marine area) relevant to the project area.

The elevation of the M 27 is approximately 280m above sea level. The immediate project area has a slope of less than 2%.

## 3.2 Flora and fauna

### 3.2.1 Describe the flora and fauna within the affected area and attach any investigations of surveys if applicable.

As the surface area of the project is small and already disturbed and given the EMP procedures to be employed during construction and operations, the project will not directly or indirectly impact Ramsar wetlands, listed threatened ecological communities, listed threatened species, or listed migratory species if they may be or may not be present in the region.

Brigalow and Poplar Box remnant Woodland species can be found in the region along fence lines and stock routes, however due to agricultural and permitted petroleum activities activities they are not present in the immediate proposed project area (see Att. 8 EA Amendment Terrestrial Ecological Study May 2022). The construction of the storage tanks and injection facility will be purposely located in previously disturbed lands adjacent to the existing access road and fence line and will not impact any species located along the fence line. An avoidance area along the immediate fence line has been self imposed to prevent disturbance to this area.

### **3.2.2 Describe the vegetation (including the status of native vegetation and soil) within the project area.**

In the immediate project area (<2 hectares) there are three trees which are classified as regrowth and are located along an access track that will not be cleared or impacted by the project construction or operations. The remainder of the immediate project area has been previously cleared and cropped. The soil surface has been highly modified for the purpose of creating a drilling pad and laydown area. This area will be reused by construction of the current project. The greater area will be used for agricultural purposes of grazing and mixed cropping. No native vegetation will occur in this area as it is intensely farmed, please refer to Attachments 7 & 8 above.

## **3.3 Heritage**

### **3.3.1 Describe any Commonwealth heritage places overseas or other places recognised as having heritage values that apply to the project area.**

The SFA does not include any Commonwealth Heritage places or places with known heritage values.

### **3.3.2 Describe any Indigenous heritage values that apply to the project area.**

The immediate area has been previously surveyed and no artefacts or significant areas were identified. However, the existing CHMP has a process of managing new finds should they occur.

## 3.4 Hydrology

### 3.4.1 Describe the hydrology characteristics that apply to the project area and attach any hydrological investigations or surveys if applicable. \*

Surface waters: for the immediate project surface area the Western Downs Regional Council has modelled potential flood zones for a 1 in 100 year flood event. The project area and the immediate surrounding area are above the declared flood zone.

The Hydrogeological features reflect the geological formations present at site, the geological features are detailed in Attachment 9: Chapter 6 EA Amendment, the Geology and Geomorphology of the Moonie Oil Field-May-2022

Hydrological studies: In conjunction with the U of Q a study of the groundwater and the potential impacts by the injection of the CO<sub>2</sub> and the Moonie Oil Field has been undertaken and modelled it is included as an Attachment 10: Chapter 8 EA Amendment, Hydrogeology Of the Moonie Oil Field-May-2022

During the first 8 years the modelling predicts a modest increase in the height of groundwater within the immediate local area (<1 m), however this decreases further from the injection well.

The Groundwater Geochemistry of the project is discussed in Attachment 11, Chapter 8 EA Amendment Groundwater Geochemistry -May-2022.

Assessment of impact on groundwaters is detailed in Attachment 12, Chapter 12 EA Amendment, the assessment of the Impact on Groundwater-May-2022

Assessment of impact on the Receiving Environment is detailed in Att. 13 and the Assessment of the impact of operations is detailed in Att. 14.

## 4. Impacts and mitigation

### 4.1 Impact details

#### Potential Matters of National Environmental Significance (MNES) relevant to your proposed action area.

EPBC Act section	Controlling provision	Impacted	Reviewed
S12	World Heritage	No	Yes
S15B	National Heritage	No	Yes
S16	Ramsar Wetland	No	Yes
S18	Threatened Species and Ecological Communities	No	Yes
S20	Migratory Species	No	Yes
S21	Nuclear	No	Yes
S23	Commonwealth Marine Area	No	Yes
S24B	Great Barrier Reef	No	Yes
S24D	Water resource in relation to large coal mining development or coal seam gas	No	Yes

EPBC Act section	Controlling provision	Impacted	Reviewed
S26	Commonwealth Land	No	Yes
S27B	Commonwealth heritage places overseas	No	Yes
S28	Commonwealth or Commonwealth Agency	No	Yes

#### 4.1.1 World Heritage

You have identified your proposed action will likely directly and/or indirectly impact the following protected matters.

A direct impact is a direct consequence of an action taken – for example, clearing of habitat for a threatened species or permanent shading on an ecological community as the result of installing solar panels.

An indirect impact is an 'indirect consequence' such as a downstream impact or a facilitated third-party action.

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##### 4.1.1.1 Is the proposed action likely to have any direct and/or indirect impact on any of these protected matters? \*

No

##### 4.1.1.3 Briefly describe why your action is unlikely to have a direct and/or indirect impact. \*

The action is unlikely to have a direct or indirect impact or indirect consequence as no world heritage areas were identified.

#### 4.1.2 National Heritage

You have identified your proposed action will likely directly and/or indirectly impact the following protected matters.

A direct impact is a direct consequence of an action taken – for example, clearing of habitat for a threatened species or permanent shading on an ecological community as the result of installing solar panels.

An indirect impact is an 'indirect consequence' such as a downstream impact or a facilitated third-party action.

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##### 4.1.2.1 Is the proposed action likely to have any direct and/or indirect impact on any of these protected matters? \*

No

##### 4.1.2.3 Briefly describe why your action is unlikely to have a direct and/or indirect impact. \*

The project will not impact or trigger matters related to National Heritage as no matters exist within or near the project area please refer to the MNES tool report

**4.1.3 Ramsar Wetland**

You have identified your proposed action will likely directly and/or indirectly impact the following protected matters.

A direct impact is a direct consequence of an action taken – for example, clearing of habitat for a threatened species or permanent shading on an ecological community as the result of installing solar panels.

An indirect impact is an 'indirect consequence' such as a downstream impact or a facilitated third-party action.

Direct impact	Indirect impact	Ramsar wetland
No	No	Banrock Station Wetland Complex
No	No	Banrock Station Wetland Complex
No	No	Riverland
No	No	Riverland
No	No	The Coorong, and Lakes Alexandrina and Albert Wetland
No	No	The Coorong, and Lakes Alexandrina and Albert Wetland

**4.1.3.1 Is the proposed action likely to have any direct and/or indirect impact on any of these protected matters? \***

No

**4.1.3.3 Briefly describe why your action is unlikely to have a direct and/or indirect impact. \***

The project is not linked or near any of the RAMSAR wetlands. The MNES report tool revealed the closest RAMSAR wetlands is more than 1100 km from the project, refer to the MNES tool report

**4.1.4 Threatened Species and Ecological Communities**

You have identified your proposed action will likely directly and/or indirectly impact the following protected matters.

A direct impact is a direct consequence of an action taken – for example, clearing of habitat for a threatened species or permanent shading on an ecological community as the result of installing solar panels.

An indirect impact is an 'indirect consequence' such as a downstream impact or a facilitated third-party action.

**Threatened species**

Direct impact	Indirect impact	Species
No	No	Calidris ferruginea
No	No	Calidris ferruginea
No	No	Chalinolobus dwyeri
No	No	Chalinolobus dwyeri

Direct impact	Indirect impact	Species
No	No	Delma torquata
No	No	Delma torquata
No	No	Egernia rugosa
No	No	Egernia rugosa
No	No	Erythrorchis radiatus
No	No	Erythrorchis radiatus
No	No	Falco hypoleucos
No	No	Falco hypoleucos
No	No	Furina dunmalli
No	No	Furina dunmalli
No	No	Geophaps scripta scripta
No	No	Geophaps scripta scripta
No	No	Grantiella picta
No	No	Grantiella picta
No	No	Hirundapus caudacutus
No	No	Hirundapus caudacutus
No	No	Homopholis belsonii
No	No	Homopholis belsonii
No	No	Lepidium monoplocoides
No	No	Lepidium monoplocoides
No	No	Nyctophilus corbeni
No	No	Nyctophilus corbeni
No	No	Phascolarctos cinereus (combined populations of Qld, NSW and the ACT)
No	No	Phascolarctos cinereus (combined populations of Qld, NSW and the ACT)
No	No	Rostratula australis
No	No	Rostratula australis
No	No	Xerothamnella herbacea
No	No	Xerothamnella herbacea

### Ecological communities

Direct impact	Indirect impact	Ecological community
No	No	Brigalow (Acacia harpophylla dominant and co-dominant)
No	No	Coolibah - Black Box Woodlands of the Darling Riverine Plains and the Brigalow Belt South Bioregions
No	No	Poplar Box Grassy Woodland on Alluvial Plains
No	No	Weeping Myall Woodlands

**4.1.4.1 Is the proposed action likely to have any direct and/or indirect impact on any of these protected matters? \***

No

**4.1.4.3 Briefly describe why your action is unlikely to have a direct and/or indirect impact. \***

The project will be constructed on a brownfield site, originally cleared by agricultural practices and subsequently by permitted construction of a drilling pad. The drilling pad and slight extension of the pad to the North into the adjacent land previously cleared with no existing vegetation will be used for construction purposes and then operations. There will be no clearing of any vegetation related to Threatened Species or Ecological Communities as listed above. Together with the application of the Bridgeport EMP and due diligence it is unlikely to have direct or indirect impact.

**4.1.5 Migratory Species**

You have identified your proposed action will likely directly and/or indirectly impact the following protected matters.

A direct impact is a direct consequence of an action taken – for example, clearing of habitat for a threatened species or permanent shading on an ecological community as the result of installing solar panels.

An indirect impact is an 'indirect consequence' such as a downstream impact or a facilitated third-party action.

Direct impact	Indirect impact	Species
No	No	Actitis hypoleucos
No	No	Apus pacificus
No	No	Calidris acuminata
No	No	Calidris ferruginea
No	No	Calidris melanotos
No	No	Cuculus optatus
No	No	Gallinago hardwickii
No	No	Hirundapus caudacutus
No	No	Motacilla flava
No	No	Myiagra cyanoleuca

**4.1.5.1 Is the proposed action likely to have any direct and/or indirect impact on any of these protected matters? \***

No

**4.1.5.3 Briefly describe why your action is unlikely to have a direct and/or indirect impact. \***

The project during construction and operations is located on a brownfield site previously cleared of any vegetation. Well M- 27 which will be the injection well. M- 27 is currently operating and consists of a visible vertical wellhead with a well pad in the immediate area of 5m wide by 5m long surrounded by a drilling pad and agricultural land as such is not attractive to migratory species, and non have been recorded here. During construction and operations the receival facility and monitoring equipment will be installed and then remotely operated apart from occasional deliveries. Given the small footprint and the absence of attractive habitat no direct or indirect impact will occur. No downstream impact or a facilitated third-party action will necessitate an impact.

The project will be controlled by through the Bridgeport Environmental Management Pan which contains management procedures for construction and operations that avoid downstream impact or impact from a facilitated third-party action.

**4.1.6 Nuclear**

**4.1.6.1 Is the proposed action likely to have any direct and/or indirect impact on this protected matter? \***

No

**4.1.6.3 Briefly describe why your action is unlikely to have a direct and/or indirect impact. \***

The proposed amendment to the existing EA to permit . CCUs will not have any direct or indirect impact on Nuclear.

**4.1.7 Commonwealth Marine Area**

You have identified your proposed action will likely directly and/or indirectly impact the following protected matters.

A direct impact is a direct consequence of an action taken – for example, clearing of habitat for a threatened species or permanent shading on an ecological community as the result of installing solar panels.

An indirect impact is an 'indirect consequence' such as a downstream impact or a facilitated third-party action.

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**4.1.7.1 Is the proposed action likely to have any direct and/or indirect impact on any of these protected matters? \***

No

**4.1.7.3 Briefly describe why your action is unlikely to have a direct and/or indirect impact. \***

The project is not located in a Marine area and will have no immediate or downstream impacts.

**4.1.8 Great Barrier Reef**

**4.1.8.1 Is the proposed action likely to have any direct and/or indirect impact on this protected matter? \***

No

**4.1.8.3 Briefly describe why your action is unlikely to have a direct and/or indirect impact. \***

The project will not have any direct or indirect impact on the Great Barrier Reef as there are no downstream impacts.

**4.1.9 Water resource in relation to large coal mining development or coal seam gas****4.1.9.1 Is the proposed action likely to have any direct and/or indirect impact on this protected matter? \***

No

**4.1.9.3 Briefly describe why your action is unlikely to have a direct and/or indirect impact. \***

The project will have no direct or indirect impacts on Water resource in relation to large coal mining development or coal seam gas projects as the existing operations are located at 1500 to 1800 m below the surface and accessing rock formation which are well below any potential CSG operations. The construction of existing and future boreholes are sealed from from CSG operations.

**4.1.10 Commonwealth Land**

You have identified your proposed action will likely directly and/or indirectly impact the following protected matters.

A direct impact is a direct consequence of an action taken – for example, clearing of habitat for a threatened species or permanent shading on an ecological community as the result of installing solar panels.

An indirect impact is an 'indirect consequence' such as a downstream impact or a facilitated third-party action.

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**4.1.10.1 Is the proposed action likely to have any direct and/or indirect impact on any of these protected matters? \***

No

**4.1.10.3 Briefly describe why your action is unlikely to have a direct and/or indirect impact. \***

The project is not located on Commonwealth land or near Commonwealth land and will have no direct or indirect impacts to Commonwealth Land. The project construction and operations will be located on less than 2 hectares of land within a farming operation. The CCUS will be located 1,500 to 1,800 m below the surface.

#### 4.1.11 Commonwealth heritage places overseas

You have identified your proposed action will likely directly and/or indirectly impact the following protected matters.

A direct impact is a direct consequence of an action taken – for example, clearing of habitat for a threatened species or permanent shading on an ecological community as the result of installing solar panels.

An indirect impact is an 'indirect consequence' such as a downstream impact or a facilitated third-party action.

##### 4.1.11.1 Is the proposed action likely to have any direct and/or indirect impact on any of these protected matters? \*

No

##### 4.1.11.3 Briefly describe why your action is unlikely to have a direct and/or indirect impact. \*

This project will have no direct or indirect impact on Commonwealth heritage places overseas.

#### 4.1.12 Commonwealth or Commonwealth Agency

##### 4.1.12.1 Is the proposed action to be taken by the Commonwealth or a Commonwealth Agency? \*

No

## 4.2 Impact summary

#### Conclusion on the likelihood of significant impacts

You have indicated that the proposed action will likely have a significant impact on the following Matters of National Environmental Significance:

*None*

#### Conclusion on the likelihood of unlikely significant impacts

You have indicated that the proposed action will unlikely have a significant impact on the following Matters of National Environmental Significance:

- World Heritage (S12)
- National Heritage (S15B)
- Ramsar Wetland (S16)
- Threatened Species and Ecological Communities (S18)
- Migratory Species (S20)

- Nuclear (S21)
- Commonwealth Marine Area (S23)
- Great Barrier Reef (S24B)
- Water resource in relation to large coal mining development or coal seam gas (S24D)
- Commonwealth Land (S26)
- Commonwealth heritage places overseas (S27B)
- Commonwealth or Commonwealth Agency (S28)

## 4.3 Alternatives

### 4.3.1 Do you have any possible alternatives for your proposed action to be considered as part of your referral? \*

No

### 4.3.8 Describe why alternatives for your proposed action were not possible. \*

Two assessments of alternatives have been undertaken. The U of Q assessed the Surat Basin for the most probable sites for Carbon Sequestration in the Surat basin and chose the Moonie Oil Field as an ideal location for CCUS amongst other projects (refer to Att1). The Company then assessed the Moonie Oil Field and concluded as a trial the best location within the Moonie Oil Field was the existing M- 27 well centrally located within the PL 1 lease with 5 surrounding production boreholes being ideally located for monitoring purposes. Other options within the field were assessed however for technical reasons related to the positioning within the oil field the other sites were not selected.

## 5. Lodgement

### 5.1 Attachments

#### 1.2.1 Overview of the proposed action

#1.	Att1 Pages from the EA Amendment Executive Summary-May-2022	Document	Att1, the project Executive Summary, and Att1a Proposed additional project area.
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#### 1.2.6 Commonwealth or state legislation, planning frameworks or policy documents that are relevant to the proposed action

#1.	Att2 Letter from Qld DOR 02/2022	Document	This letter confirms EOR (Enhanced Oil Recovery) as a petroleum activity
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#### 1.2.7 Public consultation regarding the project area

#1.	Att3 Advertisement for Expression of Interest, Toowoomba Chronicle 18/10/2022	Document	An Advertisement in then local Newspaper requesting comments on the proposed project
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## 3.1.1 Current condition of the project area's environment

#1.	Attachment 4 Location Map Attachment 5 Line of Sight Distances to greater population centres	Document	Att 4 is a map detailing the location of the Moonie Oil Field and Att 5 which is a satellite photo of the larger region illustrating line of sight distances to larger population centres.
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## 3.1.2 Existing or proposed uses for the project area

#1.	Att 6 EA Amendment Chapter 18 Community & Economic Benefit May 2022	Document	An economic assessment of the project
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## 3.2.1 Flora and fauna within the affected area

#1.	Att7 EPBS MNES Survey Report May 2022, Att8 EA Amendment Terrestrial Ecological Survey May 2022	Document	Att. 7 details the MNES survey result and Att 8 details the Terrestrial Ecological Survey undertaken by Bridgeport
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## 3.4.1 Hydrology characteristics that apply to the project area

#1.	Att 14, Assessment of Impact: Operations, EA Amendment, May 2022	Document	This document reviews the potential impact of ongoing project operations.
#2.	Att 9 Geology, Att 10 Hydrogeology, Att 11 Groundwater Geochemistry Att 12 Groundwater Impact Assess	Document	The attached documents describe and then assess impact on the Moonie Oil field reservoir

## 5.2 Declarations

### Completed Referring party's declaration

The Referring party is the person preparing the information in this referral.

ABN	608515939
Organisation name	Bridgeport (Surat Basin ) Pty. Ltd.
Organisation address	L7 111 Pacific Highway North Sydney NSW 2060
Representative's name	Ralph Guinness
Representative's job title	Group Environmental Advisor
Phone	02 8960 8400
Email	RGunness@bridgeport.net.au

Address

L7 111 Pacific Highway North Sydney NSW 2060

- Check this box to indicate you have read the referral form. \*
- I would like to receive notifications and track the referral progress through the EPBC portal. \*
- By checking this box, I, **Ralph Guinness of Bridgeport (Surat Basin ) Pty. Ltd.**, declare that to the best of my knowledge the information I have given on, or attached to this EPBC Act Referral is complete, current and correct. I understand that giving false or misleading information is a serious offence. \*
- I would like to receive notifications and track the referral progress through the EPBC portal. \*

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### Completed Person proposing to take the action's declaration

The Person proposing to take the action is the individual, business, government agency or trustee that will be responsible for the proposed action.

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Same as Referring party information.

- Check this box to indicate you have read the referral form. \*
- I would like to receive notifications and track the referral progress through the EPBC portal. \*
- I, **Ralph Guinness of Bridgeport (Surat Basin ) Pty. Ltd.**, declare that to the best of my knowledge the information I have given on, or attached to the EPBC Act Referral is complete, current and correct. I understand that giving false or misleading information is a serious offence. I declare that I am not taking the action on behalf or for the benefit of any other person or entity. \*
- I would like to receive notifications and track the referral progress through the EPBC portal. \*

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### Completed Proposed designated proponent's declaration

The Proposed designated proponent is the individual or organisation proposed to be responsible for meeting the requirements of the EPBC Act during the assessment process, if the Minister decides that this project is a controlled action.

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Same as Person proposing to take the action information.

- Check this box to indicate you have read the referral form. \*
- I would like to receive notifications and track the referral progress through the EPBC portal. \*
- I, **Ralph Guinness of Bridgeport (Surat Basin ) Pty. Ltd.**, the Proposed designated proponent, consent to the designation of myself as the Proposed designated proponent for the purposes of the action described in this EPBC Act Referral. \*
- I would like to receive notifications and track the referral progress through the EPBC portal. \*