



**Licence No. 40942**

**BUCKLAND DRY CREEK PTY  
LTD**

Saltfields, Eastern Side of Gulf St Vincent, SA

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**ISSUED:**

01 Apr 2021

**EXPIRY:**

31 Mar 2022

**ACN:**

114 007 153

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Environmental Authorisation  
under Part 6 of the  
*Environment Protection  
Act 1993*

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**South Australian  
Environment  
Protection Authority**  
GPO Box 2607  
Adelaide SA 5001  
Tel: 08 8204 2004

EPA



# Environment Protection Authority

**LICENCE NUMBER** 40942

## LICENSEE DETAILS

Licence Holder: BUCKLAND DRY CREEK PTY LTD

ACN: 114 007 153

Registered Address: 412 Hanson Road North Road, DRY CREEK SA 5094

Premises Address(es): Saltfields, Eastern Side of Gulf St Vincent, SA

## LICENSED ACTIVITIES

The Licensee is authorised to undertake, at the location(s) shown above, the following prescribed activities of environmental significance under Schedule 1 Part A of the Act, subject to the conditions in this Licence.

- |         |   |
|---------|---|
| 1(1)    | Chemical storage and warehousing facilities |
| 1(2)(b) | Chemical works (salt production)            |
| 8(7)    | Discharges to marine or inland waters       |

## TERMS OF LICENCE

Commencement Date: 01 Apr 2021

Expiry Date: 31 Mar 2022

Amended Date: 01 Apr 2021

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## Licence Explanatory Notes – Do Not Form Part of the Licence

### Compliance with this licence

The EPA seeks to ensure that all reasonable and practicable measures are taken to protect, restore and enhance the quality of the environment according to the principles of ecologically sustainable development. To achieve this objective, the EPA uses a number of regulatory decision making principles and actions outlined in the 'Compliance and enforcement regulatory options and tools' document available on the EPA website.

### Notification – serious or material environmental harm caused or threatened

If serious or material environmental harm from pollution is caused or threatened in the course of an activity, the licence holder must, as soon as reasonably practicable after becoming aware of the harm or threatened harm, notify the EPA (preferably on EPA emergency phone number 1800 100 833) of the harm or threatened harm, its nature, the circumstances in which it occurred and the action taken to deal with it in accordance with section 83 of the [Environment Protection Act 1993](#) (the Act). In the event that the primary emergency phone number is out of order, the licence holder should phone (08) 8204 2004.

### Variations, transfers and surrender of a licence

The EPA may impose or vary the conditions of a licence by notice in writing to the licence holder in accordance with sections 45 and 46 of the Act. Public notice may be required where the variation of licence conditions results in a relaxation of the requirements imposed for the protection or restoration of the environment and results in an adverse effect on any adjoining land or its amenity.

If a licence holder wishes to vary the conditions of a licence, transfer a licence to another entity, or surrender a licence, the licence holder must submit an application to the EPA in accordance with the applicable provisions of the Act (sections 45, 49 and 56, respectively). A licence remains in effect and in its original form until such time as any proposed variation, application for surrender, or transfer has been made and approved in writing by the EPA.

### Suspension or cancellation of a licence

The EPA may suspend or cancel a licence by notice in writing to the licence holder in accordance with section 55 of the Act if satisfied the licence holder has either obtained the licence improperly, contravened a requirement under the Act or if the holder is a body corporate, a director of the body corporate has been guilty of misconduct of a prescribed kind (whether in this State or elsewhere).

### Responsibilities under Environment Protection legislation

In addition to the conditions of any licence, a licence holder must comply with their obligations under all State and Federal legislation (as amended from time to time) including: the [Environment Protection Act 1993](#); the [Environment Protection Regulations 2009](#); all Environment Protection Policies made under the [Environment Protection Act 1993](#); and any National Environment Protection Measures not operating as an Environment Protection Policy under the [Environment Protection Act 1993](#)

### Public Register Information

The EPA maintains and makes available a Public Register of details related to its determinations and other information it considers appropriate (i.e. excluding trade processes or financial information) in accordance with section 109 of the Act. These details include, but are not limited to:

- licensing and beverage container applications and approvals
- enforcement actions
- site contamination
- serious or material environmental harm caused or threatened in the course of an activity
- environment improvement programmes and environment performance agreements
- environment assessment reports; results of testing, monitoring or evaluation required by a licence
- EPA advice or direction regarding development approvals referred to the EPA by a planning authority

## Definitions

Unless the contrary intention appears, terms used in this licence that are defined in the Act (including any regulations or environment protection policies made pursuant to the Act) have the respective meanings assigned to those terms by the Act.

**THE ACT:** The *Environment Protection Act 1993*

**PREMISES:** The whole of the land comprised in Titles Register - Certificate of Title, Crown Lease and Crown Record.

CR5757/821  
CT5881/409  
CR5744/712  
CR5744/713  
CR5744/715  
CR5751/448  
CR5757/317  
CR5760/407  
CR5766/819  
CR5766/820  
CT5154/618  
CR5744/249  
CR5744/250  
CT5197/309  
CT5197/307  
CT5197/304  
CT5197/302  
CT5197/300  
CT5197/301  
CT5197/298  
CT5197/297  
CT5197/294  
CT5197/315  
CR5766/821  
CR5766/822  
CR5766/824  
CR5766/825  
CR5766/826  
CT5887/225  
CR5766/827  
CR5766/828  
CR5766/829  
CR5766/831  
CR5766/832  
CR5766/833  
CR5766/834  
CR5766/835  
CR5766/836  
CR5766/837  
CR5766/838  
CR5769/617  
CR5844/945

CR5766/823  
CR5757/815  
CT5278/129  
CR5748/918  
CR5748/919  
CR5748/921  
CR5748/922  
CR5744/714  
CT5207/813  
CR5779/709  
CT5875/910  
CR5760/408  
CR5928/176  
CT5885/596  
CT5930/304  
CT5906/440  
CT5382/774  
CT6161/956  
CT6168/801  
CT6168/802  
CT6168/803  
CT6168/800  
CT6181/27  
CT6181/30  
CT6181/314  
CT6181/357  
CT6181/31  
CT6181/28  
CR6179/598  
CR6199/731  
CR6186/517  
CT6187/447  
CR6216/148  
CR6212/478  
CR6212/480  
CR6212/479  
CR6220/967  
CT6224/932  
CR6238/132  
CT6238/131

**ACID SULPHATE SOIL:** means a soil or soil horizon which contains sulfides or an acid soil horizon affected by oxidation of sulfides.

**AUTHORISATION FEE PAYMENT DATE:** means the anniversary of the grant or renewal of this authorisation.

**BITTERNS:** means a solution of bromides, magnesium, and calcium salts remaining after sodium chloride is crystallised out of seawater.

**ENVIRONMENTAL HARM:** means the same as is defined in section 5 of the Environment Protection Act 1993.

**MONOSULPHIDIC BLACK OOZE:** means organic ooze enriched by iron monosulfides.

**WASTE:** means -

1. As defined under the Environment Protection Act 1993,

1(a) any discarded, dumped, rejected, abandoned, unwanted or surplus matter, whether or not intended for sale or for purification or resource recovery by a separate operation from that which produced the matter; or

1(b) any matter declared by regulation to be waste for the purposes of this Act (following consultation by the Minister on the regulation with prescribed bodies in accordance with the regulations); or

1(c) any matter declared by an environment protection policy to be waste for the purposes of this Act,

whether or not of value.

2. However, waste does not include—

2(a) an approved recovered resource whilst it is being dealt with in accordance with the declaration of that resource—see section 4A; or

2(b) anything declared by regulation or an environment protection policy not to be waste for the purposes of this Act,

even though the resource or the thing so declared might otherwise, but for the declaration, fall within the definition of waste in subsection (1).

## **Acronyms**

**EPA:** means Environment Protection Authority



## Conditions of Licence

The Licensee is authorised to conduct the prescribed activities as described in this Licence at the Premises nominated, subject to the following conditions:

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### 1 CONTROL OF EMISSIONS

#### 1.1 DISCHARGE LOCATIONS (U - 30)

The Licensee must only discharge to coastal waters at the locations set out in Table 1 of Attachment 1 appended to this licence.

#### 1.2 DISCHARGES (U - 31)

The Licensee must:

- 1.2.1 ensure that any saline water discharged from Location A complies with the compliance criteria set out in Table 2 of Attachment 1 appended to this licence; and
- 1.2.2 only discharge Bitterns from Location B and ensure that the discharge complies with the compliance criteria set out in Table 2 of Attachment 1 appended to this licence.

#### 1.3 DUST PREVENTION (S - 8)

The Licensee must take all reasonable and practicable measures, including development of an appropriate Dust Management Plan, to prevent dust from leaving the Premises.

#### 1.4 MONITORING AND REPORTING - BOLIVAR CHANNEL DISCHARGE (U - 811)

The Licensee must:

- 1.4.1 undertake continuous in-line monitoring of salinity at Location A (as identified in Table 2 of Attachment 1 appended to this licence);

- 1.4.2 submit a report to the satisfaction of the EPA, setting out the results of the continuous in-line monitoring and analysis of the discharges, according to the following schedule:
- a for the months of January, February and March, the report must be submitted by the end of April in that year;
  - b for the months of April, May and June, the report must be submitted by the end of July in that year;
  - c for the months of July, August and September, the report must be submitted by the end of October in that year; and
  - d for the months of October, November and December, the report must be submitted by the end of January in the following year.

## **1.5 NOISE PREVENTION (S - 13)**

The Licensee must take all reasonable and practicable measures, including development of an appropriate Noise Management Plan, to prevent noise from leaving the Premises.

## **1.6 ODOUR PREVENTION (S - 11)**

The Licensee must take all reasonable and practicable measures, including development of an appropriate Odour Management Plan, to prevent odour from leaving the Premises.

## **1.7 SALINITY EXCEEDANCE - BOLIVAR CHANNEL OUTFALL (U - 728)**

The Licensee must:

- 1.7.1 cease the discharge of saline water from the Bolivar Channel Outfall if the compliance criteria set out in Table 2 of Attachment 1 appended to this licence is exceeded;
- 1.7.2 notify the EPA within 24 hours of the exceedance;
- 1.7.3 provide written notification within 72 hours of the exceedance;
- 1.7.4 ensure the written notification includes a root cause analysis of why the exceedance occurred and what measures were implemented to rectify the exceedance; and
- 1.7.5 not recommence the discharge of saline water unless approved in writing by the EPA or the compliance criteria for discharge is met.

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## **2 OPERATIONAL MANAGEMENT**

### **2.1 COMPLAINTS REGISTER (S - 1)**

The Licensee must:

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- 2.1.1 prepare and maintain a register of all complaints concerning environmental issues.
- 2.1.2 ensure the register includes:
  - a the date and time that the complaint was made;
  - b details of the complaint including the likely cause of events giving rise to the complaint;
  - c the contact details of the complainant (if permitted by the complainant); and
  - d details of any action taken in response to the complaint by the Licensee.

## **2.2 DISCHARGE CRITERIA MANAGEMENT PLAN (U - 1368)**

The Licensee must:

- 2.2.1 review and revise a Discharge Criteria Management Plan (DCMP) to the satisfaction of the EPA by the compliance date below;
- 2.2.2 ensure that the DCMP includes, but is not limited to the following:
  - a a methodology to ensure that the discharge of saline water does not exceed the compliance criteria for Location A set out in Table 2 of Attachment 1 appended to this licence;
  - b actions to be undertaken by the Licensee in the event that the compliance criteria for Location A set out in Table 2 of Attachment 1 are exceeded.

**Compliance Date: 17-May-2021**

## **2.3 POND WATER LEVEL CONTROL PLAN (U - 1365)**

The Licensee must:

- 2.3.1 review and revise the Plan controlling pond water levels and submit to the satisfaction of the EPA by the compliance date listed below.
- 2.3.2 ensure that the Plan includes, but is not limited to:
  - a actions to address exposure and mobilisation of monosulfidic black ooze and acid sulphate soils and;
  - b actions to address the creation and mobilisation of hyper-saline water; and
  - c the levels of water to be maintained in each of the ponds; and
  - d the measures that will be taken to ensure the water levels are maintained at the proposed levels in each of the ponds; and
  - e the method of monitoring to ensure the water levels are maintained at the proposed levels in each of the ponds; and
  - f the timeframe for revision of the Plan.

**Compliance Date: 17-May-2021**

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### **3 MONITORING AND REPORTING**

#### **3.1 MONITORING PLAN (U - 1366)**

The Licensee must, no less than 10 business days prior to undertaking discharge of saline water from location C (as identified in Attachment 1, Table 1 of this licence):

- 3.1.1 revise and submit to the EPA the Gawler Discharge Trial Plan (Monitoring Plan) dated 12 February 2015 to the satisfaction of the EPA;
- 3.1.2 ensure that the Monitoring Plan includes, but is not limited to the following:
  - a the objectives of the monitoring;
  - b methodology to measure salinity changes within the Gawler River Channel following discharge events;
  - c schedule for the monitoring of discharge events;
  - d methodology and frequency of reporting the results of monitoring to the EPA

#### **NOTES**

The EPA will assess the Monitoring Plan against the EPA Guideline 'Regulatory monitoring and testing - Monitoring plans requirements'.

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### **4 ADMINISTRATION**

#### **4.1 ANNUAL RETURN AND PAYMENT OF ANNUAL FEES (A - 4)**

For the purposes of section 48(2)(a) of the Act, the date in each year for the lodgement of the Annual Return is no later than 90 days before the anniversary of the grant or renewal of the Licence; and

- 4.1.1 For the purposes of section 48(2)(b) of the Act, the date in each year for the payment of Annual Authorisation Fee is the anniversary of the grant of the Licence.

#### **4.2 APPROVAL OF OPERATING PROCESSES (A - 6)**

The Licensee must not undertake changes to operating processes conducted pursuant to the Licence at the Premises without written approval from the EPA, where such changes:

- 4.2.1 have the potential to increase emissions or alter the nature of pollutants or waste currently generated by, or from the licensed activity; or
- 4.2.2 have the potential to increase the risk of environmental harm; or
- 4.2.3 would relocate the point of discharge of pollution or waste at the Premises.

#### **4.3 APPROVAL OF WORKS (A - 5)**

The Licensee must not construct or alter a building or structure, or install or alter any plant or equipment, for use of an activity undertaken pursuant to the Licence at the Premises without written approval from the EPA, where such changes:

- 4.3.1 have the potential to increase the emissions or alter the nature of pollutants or waste currently generated by, or from the licensed activity; or
- 4.3.2 have the potential to increase the risk of environmental harm; or
- 4.3.3 would relocate the point of discharge of pollution or waste at the Premises.

#### **4.4 CHANGE OF LICENSEE DETAILS (A - 3)**

If the Licensee's name or postal address (or both) changes, the Licensee must inform the EPA within 28 days of the change occurring.

#### **4.5 LICENCE RENEWAL (A - 2)**

For the purposes of section 43(3) of the Act, an application for Renewal of the Licence must be made no later than 90 days before the expiry date of the Licence.

#### **4.6 OBLIGATIONS TO EMPLOYEES, AGENTS AND CONTRACTORS (A - 1)**

The Licensee must ensure that every employee, agent or contractor responsible for undertaking any activity regulated by the Licence, is informed as to the conditions of the Licence.

#### **4.7 VARIATION OF CONDITIONS OF LICENCE (pursuant to section 45(3) of the Environment Protection Act, 1993) (U - 1367)**

The EPA may:

- 4.7.1 impose conditions or vary conditions of this licence at any time by notice in writing to the Licensee in the following circumstances:
  - a in relation to:
    - i odour, noise and dust emissions;
    - ii environmental pollutants (including saline discharges, bitterns, acidic discharges);
    - iii revision and implementation of plans required by this licence.

## Attachments

LICENCEATTACHMENT1.pdf



# ATTACHMENT 1 EPA LICENCE 40942

## Table 1: Discharge Locations

Discharge Identification	Discharge Name	Location Description	Latitude	Longitude
<b>A</b>	Bolivar Channel Outfall	Immediately upstream of the SA Water Bolivar WWTP Outfall Weir called Weir 2	-34.6968°	138.4821°
<b>B</b>	Bitterns Discharge	Pump 8 Discharge Point	-34.815615°	138.557044°
		E Row Drain Flap	-34.795350°	138.578516°
<b>C</b>	Gawler River Discharge	Immediately downstream of the Gawler River Weir	-34.671857°	138.466507°

**Table 2: Compliance Criteria**

<b>Location Identification</b>	<b>Location</b>	<b>Latitude/Longitude</b>	<b>Nature of Discharge</b>	<b>PARAMETER</b>	<b>COMPLIANCE CRITERIA</b>
<b>A1</b>	Site 3 - Downstream of the SA Water Bolivar WWTP Outfall weir	Latitude -34.6991	Bolivar Channel Outfall Saline Water Discharge	Salinity	No more than 45 parts per thousand measured on a 6 hour rolling average
		Longitude 138.4757			
<b>A2</b>	Site 1a - Downstream of the SA Water Bolivar WWTP Outfall weir	Latitude -34.7006			
		Longitude 138.4749			
<b>B</b>	Pump 8 Discharge Point	Latitude -34.815615°	Bitterns Discharge	Suspended Solids	No more than 80 milligrams per litre + 80% seasonal maximum
		Longitude 138.557044°		pH	6.5 – 9.2
	E Row Drain Flap	Latitude -34.795350°		Salinity	The hydrography of stream flow causes a permanent change in isohaline patterns of no more than 10% of the background variation
		Longitude 138.578516°		Oxygen (dissolved)	The discharge is subject to turbulent flow to ensure that it is discharged with highest possible Oxygen saturation