Permit[1]

Environmental Protection Act 1994

Environmental authority EPPR03180115 Abbot Point Terminal 0

This environmental authority is issued by the administering authority under Chapter 5 of the Environmental Protection Act 1994.

Permit[1] number: EPPR03180115

Environmental authority takes effect on the Commissioning of the Activity

The first annual fee is payable within 20 business days of the effective date.

The anniversary date of this environmental authority is the same day each year as the effective date. An annual return and the payment of the annual fee will be due each year on this day.

Environmental authority holder(s)

Name	Registered address
Adani Australia Coal Terminal Pty Ltd	Level 25, 10 Eagle St BRISBANE QLD 4001

Environmentally relevant activity and location details

Environmentally relevant activity(ies)	Location(s)
50(1a) Bulk mineral handling Bulk material handling consists of loading or unloading 100t or more of minerals in a day or stockpiling 50,000t or more of minerals within 5km of the highest astronomical tide or 1km of a watercourse. 63(1b)(ii) Sewage treatment Sewage treatment consists of operating sewage treatment works, other than no-release works, with a total daily peak design capacity of more than 100 but not more than 1500EP otherwise.	Abbot Point Coal Terminal Bowen Terminal 0 – Stage 1. Adani Coal Terminal STP, Abbot Point Road BOWEN Lot 51 Plan SP243724; Adani Coal Terminal, Abbot Point Road BOWEN Lot 3 Plan SP227557, Lot 54 Plan SP243724, Lot 56 Plan SP243724, Lot 49 Plan SP185904, Lot 21 Plan SP271830, Lot 48 Plan SP243724, Lot 51 Plan SP243724.

[1] Permit includes licences, approvals, permits, authorisations, certificates, sanctions or equivalent/similar as required by legislation

Additional information for applicants

Environmentally relevant activities

The description of any environmentally relevant activity (ERA) for which an environmental authority is issued is a restatement of the ERA as defined by legislation at the time the approval is issued. Where there is any inconsistency between that description of an ERA and the conditions stated by an environmental authority as to the scale, intensity or manner of carrying out an ERA, then the conditions prevail to the extent of the inconsistency.

An environmental authority authorises the carrying out of an ERA and does not authorise any environmental harm unless a condition stated by the authority specifically authorises environmental harm.

A person carrying out an ERA must also be a registered suitable operator under the *Environmental Protection Act 1994* (EP Act).

Contaminated land

It is a requirement of the EP Act that if an owner or occupier of land becomes aware a notifiable activity (as defined in Schedule 3 and Schedule 4) is being carried out on the land, or that the land has been, or is being, contaminated by a hazardous contaminant, the owner or occupier must, within 22 business days after becoming so aware, give written notice to the chief executive.

K. J. Bennink

Signature

7 December 2015

Date

Kate Bennink
Department of Environment and Heritage Protection
Delegate of the administering authority
Environmental Protection Act 1994

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Obligations under the *Environmental Protection Act 1994*

In addition to the requirements found in the conditions of this environmental authority, the holder must also meet their obligations under the EP Act, and the regulations made under the EP Act. For example, the holder must comply with the following provisions of the Act:

- general environmental duty (section 319)
- duty to notify environmental harm (section 320-320G)
- offence of causing serious or material environmental harm (sections 437-439)
- offence of causing environmental nuisance (section 440)
- offence of depositing prescribed water contaminants in waters and related matters (section 440ZG)
- offence to place contaminant where environmental harm or nuisance may be caused (section 443)

Conditions of environmental authority

The environmentally relevant activity(ies) conducted at the location as described above must be conducted in accordance with the following site specific conditions of approval.

Agency interest: General	
Condition number	**Condition**
A1	This environmental authority authorises: (a) bulk materials handling of no more than 40 million tonnes per annum (Mtpa) of throughput coal. (b) construction and operation of a sewage treatment plant with a maximum daily treatment design capacity of 300,000L per day.
A2	All reasonable and practicable **measures** must be taken to prevent or minimise environmental harm caused by the activities.
A3	The **activity** must be undertaken in accordance with written procedures that: (a) identify potential risks to the environment from the **activity** during routine operations and emergencies; and (b) establish and maintain control **measures** that minimise the potential for environmental harm; and (c) ensure plant, equipment and **measures** are maintained in a proper and effective condition; and (d) ensure plant, equipment and **measures** are operated in a proper and effective manner; and (e) ensure that staff are trained and aware of their obligations under the *Environmental Protection Act 1994*; and (f) ensure that reviews of environmental performance are undertaken at least annually.
A4	The holder of this environmental authority must notify the **administering authority** as soon as possible, but no later than 24 hours, after becoming aware of any emergency or incident that results in non-compliance with the conditions of this environmental authority.

A5	Within 10 business days following the initial notification of an emergency or incident, or receipt of monitoring results, whichever is the latter, further written advice must be provided to the **administering authority**, including the following: (a) results and interpretation of any samples taken and analysed; (b) outcomes of actions taken at the time to prevent or minimise unlawful environmental harm; and (c) proposed actions to prevent a recurrence of the emergency or incident.
A6	The holder of this environmental authority must record all environmental complaints received about the **activity** including: (a) name, address and contact number for of the complainant; (b) time and date of complaint; (c) reasons for the complaint; (d) investigations undertaken; (e) conclusions formed; (f) actions taken to resolve the complaint; (g) any abatement **measures** implemented; and (h) person responsible for resolving the complaint.
A7	All records that are required by the conditions of this environmental authority must be kept for a period of at least 5 years and provided to the **administering authority** upon request.
A8	An **appropriately qualified person(s)** must monitor, record and interpret all parameters that are required to be monitored by this environmental authority and in the manner specified by this environmental authority.
A9	All analyses required under this environmental authority must be carried out by a laboratory that has National Association of Testing Authorities (NATA) certification, or an equivalent certification, for such analyses.
A10	When required by the **administering authority**, monitoring must be undertaken in the manner prescribed by the **administering authority**, to investigate a complaint that is not considered by the **administering authority** to be frivolous or vexatious, of **environmental nuisance** arising from the **activity**. The monitoring results must be provided to the **administering authority** upon request.
A11	All chemicals and fuels must be stored and handled in accordance with the latest edition of AS1940. Where no relevant Australian Standard exists, store such materials within an effective on-site containment system.

Agency interest: Air	
Condition number	**Condition**
B1	Odours and airborne **contaminants** released as a result of the **activity** must not cause an **environmental nuisance** at any **sensitive** or **commercial place**.

B2	The holder must take all reasonable and practical measures to meet the following objectives at any **sensitive** or **commercial place**: - Dust deposition of 120 milligrams per square metre per day (120mg/m^2/day) averaged over one month, and - Particulate matter generated by the activities with an aerodynamic diameter of less than 10 micrometres (PM10) of 50 micrograms per cubic metre (50 µg/m^3) suspended in the atmosphere over a 24 hour averaging time. NOTE: A commercial place does not include Abbot Point Terminal 1.
B3	An air monitoring program must be developed, implemented and maintained to achieve compliance with condition **B1** and **B2**.

Agency interest: Noise	
Condition number	**Condition**
C1	Other than as permitted within this environmental authority, noise generated by the **activity** must not cause **environmental nuisance** to any **sensitive** or **commercial place**.
C2	A noise monitoring station, Noise Monitoring Point 1, must be installed on the eastern side of the Caley Valley Wetlands.
C3	The coordinates of Noise Monitoring Point 1 must be provided to the **administering authority** for approval prior to the environmental authority becoming effective.
C4	Noise from the **activity** must not include substantial low frequency noise components and the holder must take all reasonable and practical measures to meet the noise objective identified in **Table C1 – Noise Objective** at Noise Monitoring Point 1.

Table C1 – Noise Objective

Noise Level measured in dB(A)	Monday to Sunday (including Public Holidays)
LAeq adj, 1 hr	55

Agency interest: Waste	
Condition number	**Condition**
D1	All waste generated in carrying out the **activity** must be lawfully reused, recycled or removed to a facility that can lawfully accept the waste.

Agency interest: Water	
Condition number	**Condition**
E1	**Contaminants** that will, or have the potential to cause environmental harm must not be released directly or indirectly to any surface **waters** or groundwater, except as permitted under the conditions of this environmental authority.
E2	Releases may only occur after the environmental authority holder of Abbot Point T1 has been notified of the proposed release.
E3	Unless otherwise permitted under the conditions of this environmental authority, the release of contaminated water must only occur from the release points specified in **Table E1 – Contaminated water release points, sources and receiving waters** and depicted in **Figure 1 – Location of Release Points** attached to this environmental authority.

Table E1 – Contaminated water release points, sources and receiving waters

Release Point (RP)	Latitude (decimal degree, GDA94)	Longitude (decimal degree, GDA94)	Contaminated Water Source and Location	Receiving Environment Description
RP1	-19.890317	148.079606	T0 Stage 1, Stormwater Management System	T1 Water Management System
RP2	-19.896823	148.079651	T0 Stage 1, Stormwater Management System	T1 Water Management System

Agency interest: Sewage	
Condition number	**Condition**
F1	Treated sewage effluent must only be released to RP1 and RP2.
F2	When circumstances prevent the beneficial reuse of treated sewage effluent such as during or following rain events, alternative **measures** must be taken to lawfully dispose of or store the effluent.
F3	Treated effluent from the sewage treatment plant must be monitored in accordance with **Table F1 – Sewage Treatment Plant monitoring requirements**.

Table F1 – Sewage Treatment Plant monitoring requirements

Monitoring Point	Quality Characteristics	Monitoring frequency
Final Effluent – Final Tank Tap	Total Suspended Solids	Monthly
	pH	Monthly
	E.coli	Monthly
	Total Nitrogen	Monthly
	Total Phosphorus	Monthly
	Biochemical Oxygen Demand (as BOD_5)	Monthly

F4	Sewage pumping stations and plant to which this environmental authority relates must be fitted with an alarm system(s) that, as a minimum, notifies the operator of the following: a) the failure of essential sewage treatment system infrastructure b) electrical faults and power outage c) overflows from plant and pump stations.

Agency interest: Land	
Condition number	**Condition**
G1	Treatment and management of acid sulfate soils must comply with the latest edition of the *Queensland Acid Sulfate Soil Technical Manual.*

Agency interest: Biodiversity	
Condition number	**Condition**
H1	The type and placement of all offshore light fittings must minimise impacts to the marine environment where practicable and safe to do so.
H2	The holder of this environmental authority must contribute to a monitoring program to ensure that the migratory shorebirds and waterbird populations associated with the Caley Valley Wetlands are not impacted as a result of the cumulative activities of activities carried out under this environmental authority and other activities at Abbot Point.

Definitions

Key terms and/or phrases used in this document are defined in this section and **bolded** throughout this document. Applicants should note that where a term is not defined, the definition in the *Environmental Protection Act 1994*, its regulations or environmental protection policies must be used. If a word remains undefined it has its ordinary meaning.

Activity means the environmentally relevant activities, whether resource activities or prescribed activities, to which the environmental authority relates.

Administering authority means the Department of Environment and Heritage Protection or its successor or predecessors.

Appropriately qualified person(s) means a person or persons who has professional qualifications, training, skills or experience relevant to the nominated subject matter and can give authoritative assessment, advice and analysis to performance relative to the subject matter using the relevant protocols, standards, methods or literature.

Commercial place means a place used as a workplace, an office or for business or commercial purposes and includes a place within the curtilage of such a place reasonably used by persons at that place.

Contaminant as defined under Chapter 1 of the *Environmental Protection Act 1994.*

Environmental nuisance as defined under Chapter 1 of the *Environmental Protection Act 1994.*

$L_{Aeq\ adj,\ 1hr}$ means an A-weighted sound pressure level of a continuous steady sound, adjusted for tonal character, that within a 1 hour period has the same mean square sound pressure of a sound that varies with time.

Measures has the broadest interpretation and includes plant, equipment, physical objects, monitoring, procedures, actions, directions and competency.

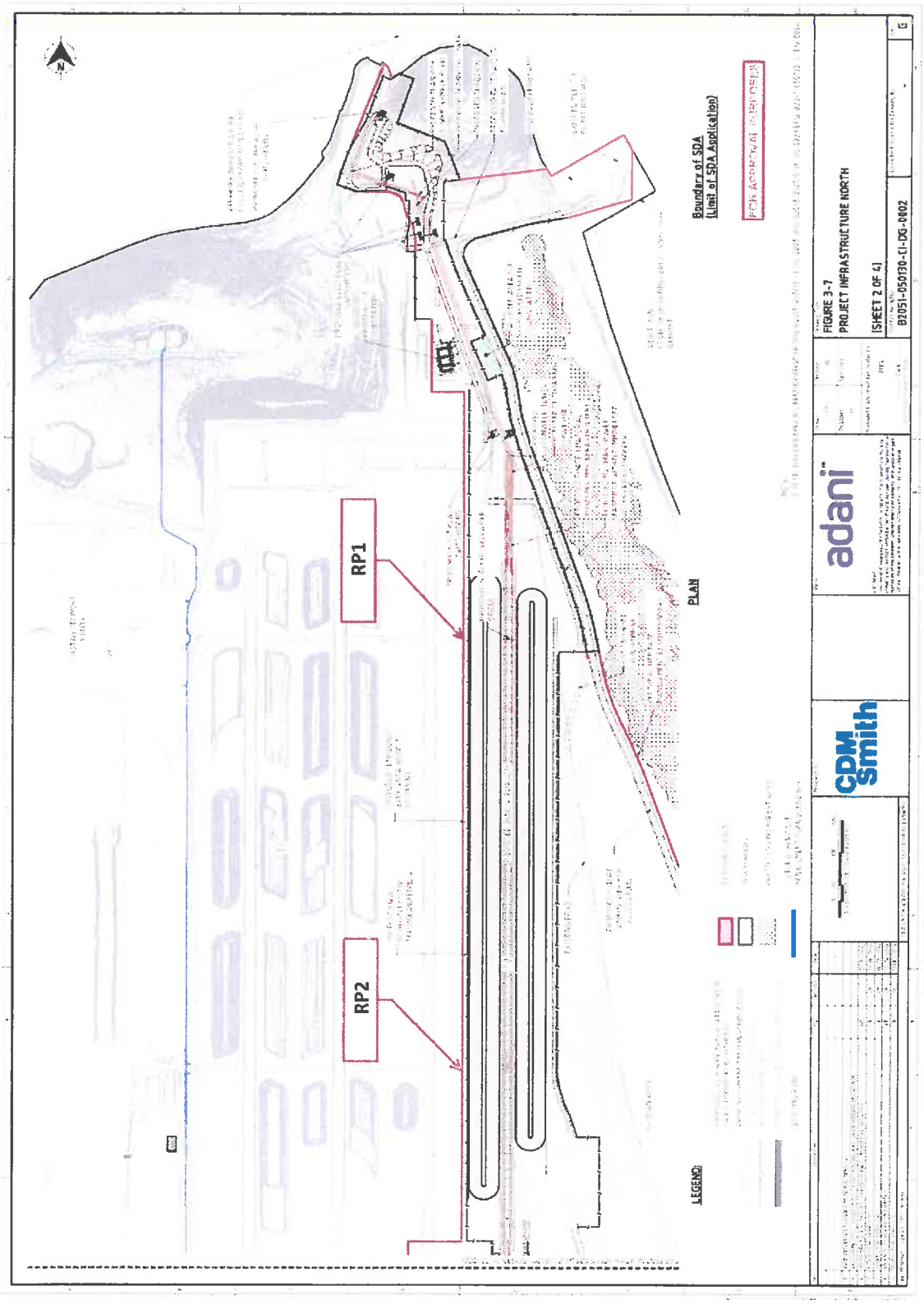
Sensitive place includes the following and includes a place within the curtilage of such a place reasonably used by persons at that place:

(a) a dwelling, residential allotment, mobile home or caravan park, residential marina or other residential premises; or
(b) a motel, hotel or hostel; or
(c) a kindergarten, school, university or other educational institution; or
(d) a medical centre or hospital; or
(e) a protected area under the *Nature Conservation Act 1992*, the *Marine Parks Act 2004* or a World Heritage Area; or
(f) a public thoroughfare, park or gardens; or
(g) for noise, a place defined as a sensitive receptor for the purposes of the *Environmental Protection (Noise) Policy 2008*.

Substantial low frequency noise means a noise emission that has an unbalanced frequency spectrum shown in a one-third octave band measurements, with a predominant component within the frequency range 10 to 200 Hz. It includes any noise emission likely to cause an overall sound pressure level at a noise **sensitive place** exceeding 55 dB(Z).

Waters includes river, stream, lake, lagoon, pond, swamp, wetland, unconfined surface water, unconfined water, natural or artificial watercourse, bed and bank of any **waters**, dams, non-tidal or tidal **waters** (including the sea), stormwater channel, stormwater drain, roadside gutter, stormwater run-off, and groundwater and any part thereof.

Figure 1 – Location of Release Points



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