Permit

Environmental Protection Act 1994

Environmental authority EPPR00536313

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

Environmental authority number: EPPR00536313

Environmental authority takes effect on 03 May 2018

Environmental authority holder(s)

Name(s)	Registered address
C S ENERGY LIMITED	Level 2, HQ (North Tower) 540 Wickham Street FORTITUDE VALLEY QLD 4006

Environmentally relevant activity and location details

Environmentally relevant activity/activities	Location(s)
Prescribed ERA, ERA 08 - Chemical Storage, 1: Storing a total of 50t or more of chemicals of dangerous goods class 1 or class 2, division 2.3 under subsection (1)(a)	Lot 1/RP615528
Prescribed ERA, ERA 08 - Chemical Storage, 1: Storing a total of 50t or more of chemicals of dangerous goods class 1 or class 2, division 2.3 under subsection (1)(a)	Lot 4/SP103557
Prescribed ERA, ERA 56 - Regulated Waste Storage, Receiving and storing regulated waste	Lot 1/RP615528
Prescribed ERA, ERA 56 - Regulated Waste Storage, Receiving and storing regulated waste	Lot 4/SP103557
Prescribed ERA, ERA 63 - Sewage Treatment, 1: Operating sewage treatment works, other than no-release works, with a total daily peak design capacity of, (b-ii) more than 100 but not more than 1500EP otherwise	Lot 1/RP615528
Prescribed ERA, ERA 63 - Sewage Treatment, 1: Operating sewage treatment works, other than no-release works, with a total daily peak design capacity of, (b-ii) more than 100 but not more than 1500EP otherwise	Lot 4/SP103557
Prescribed ERA, ERA 08 - Chemical Storage, 3: Storing more than 500 cubic metres of chemicals of class C1 or C2 combustible liquids under AS 1940 or dangerous goods class 3 under subsection (1)(c)	Lot 1/RP615528
Prescribed ERA, ERA 08 - Chemical Storage, 3: Storing more than 500 cubic metres of chemicals of	Lot 4/SP103557

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Environmentally relevant activity/activities	Location(s)
class C1 or C2 combustible liquids under AS 1940 or dangerous goods class 3 under subsection (1)(c)	
Prescribed ERA, ERA 60 - Waste disposal, 1: Operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1)(a), (d) more than 200,000t	Lot 1/RP615528
Prescribed ERA, ERA 60 - Waste disposal, 1: Operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1)(a), (d) more than 200,000t	Lot 4/SP103557
Prescribed ERA, ERA 14 - Electricity Generation, 2: Generating electricity by using a fuel, other than gas, at a rated capacity of, (b) more than 150MW electrical	Lot 1/RP615528
Prescribed ERA, ERA 14 - Electricity Generation, 2: Generating electricity by using a fuel, other than gas, at a rated capacity of, (b) more than 150MW electrical	Lot 4/SP103557

Additional information for applicants

Environmentally relevant activities

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

An EA authorises the carrying out of an ERA and does not authorise any environmental harm unless a condition stated by the EA 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 an owner or occupier of contaminated land give written notice to the administering authority if they become aware of the following:

- the happening of an event involving a hazardous contaminant on the contaminated land (notice must be given within 24 hours); or
- a change in the condition of the contaminated land (notice must be given within 24 hours); or
- a notifiable activity (as defined in Schedule 3) having been carried out, or is being carried out, on the contaminated land (notice must be given within 20 business days);

that is causing, or is reasonably likely to cause, serious or material environmental harm.

For further information, including the form for giving written notice, refer to the Queensland Government website www.qld.gov.au, using the search term ‘duty to notify’.

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Take effect

Please note that, in accordance with section 200 of the EP Act, an EA has effect:

a) if the authority is for a prescribed ERA and it states that it takes effect on the day nominated by the holder of the authority in a written notice given to the administering authority-on the nominated day; or
b) if the authority states a day or an event for it to take effect-on the stated day or when the stated event happens; or
c) otherwise-on the day the authority is issued.

However, if the EA is authorising an activity that requires an additional authorisation (a relevant tenure for a resource activity, a development permit under the Planning Act 2016 or an SDA Approval under the State Development and Public Works Organisation Act 1971), this EA will not take effect until the additional authorisation has taken effect.

If this EA takes effect when the additional authorisation takes effect, you must provide the administering authority written notice within 5 business days of receiving notification of the related additional authorisation taking effect.

If you have incorrectly claimed that an additional authorisation is not required, carrying out the ERA without the additional authorisation is not legal and could result in your prosecution for providing false or misleading information or operating without a valid environmental authority.

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

Date issued: 03 May 2018

Enquiries:
Waste and Contaminated Land Assessment
Department of Environment and Heritage Protection
Phone: 1300 130 372
Email: palm@ehp.qld.gov.au

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)

Legislative Requirements and Conditions of Environmental Authority

Schedule 2A – General Conditions

Records

2(A1) Any record of document required to be kept by a condition of this environmental authority must be kept at the licenced place for a period of at least five (5) years and be available for examination by an authorised person. For daily and weekly records, the record retention requirements of this condition are satisfied if any daily and weekly records are kept for a period of three (3) years and these records are then kept in the form of annual summaries after that period. The records are to be kept either on paper on in electronic form.

2(A2) Except where otherwise specified in this environmental authority, copies of any record or document required to be kept as a condition of this environmental authority must be provided to any authorised person or the Administering Authority on request.

Alterations

2(A3) The holder of this environmental authority must submit details of any amendment to Management Plans or the Integrated Environmental Management System (IEMS) to the Administering Authority with the annual return which immediately follows the implementation of any such amendment.

Integrated Environmental Management Systems (IEMS)

2(A4) The Integrated Environmental Management System, as submitted to the administering authority must be implemented by the holder of this environmental authority.

Emergency Release of Air Emissions – Exceedance of Release Limits

2(A5) The holder of the environmental authority must notify the administering authority, of a direction made by the Australian Energy Market Operator (AEMO) under section 116 of the National Electricity (Queensland) Law or clause 4.8.9 of the National Electricity Rules, no later than 72 hours after the direction is given, when the limits prescribed in Condition 2(B3) are exceeded.

The notification must include:

(a) The date and time that the direction was issued by AEMO; and

(b) The duration that the relevant direction remained in force.

2(A6) The limits prescribed in condition 2(B3) are not applicable to a unit of the power station if the unit is operating in accordance with a direction made by AEMO as stated in 2(A5). During a direction as stated in 2(A5) the holder of the environmental authority must comply with the limits defined in Schedule 2G Table 7 – Temporary release limits during a direction by AEMO.

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2(A7) Notwithstanding this condition no environmental harm will be caused by any releases in excess of limits specified.

Schedule 2B – Air

Release of Contaminants to the Atmosphere

2(B1) Except as authorised by conditions 2(B4) and 2(B5), products of combustion must only be released to the atmosphere from those release points specified in Schedule 2G, Table 1.

2(B2) Products of combustion must be released to the atmosphere from a release point at a height not less than the corresponding height stated for that release point in Schedule 2G, Table 1.

2(B3) Products of combustion produced during Normal Unit Operating Conditions must not be released to the atmosphere from a release point at a concentration in excess of those stated in Schedule 2G, Table 2.

Fugitive Emissions

2(B4) Ducting and extraction systems that transfer contaminants from one location to another must be constructed, operated and maintained so as to minimise any leakage of contaminants to the atmosphere occurring from these sources.

2(B5) In the event of emissions of contaminants occurring from industrial plant or ducting and extraction systems that transfer contaminants from one location to another, the fault or omission that resulted in that emission must be corrected as soon as practicable.

Dust Control

2(B6) The holder of this environmental authority must take all reasonable and practicable measures to minimise the release of dust and particulate matter to the atmosphere beyond the licenced premises.

Fuel Burning

2(B7) The fuels which may be burned in the boiler are coal, natural gas, liquid petroleum gas, and distillate. Recycled fuel oils and fuel oil may be used at start up, shut down and for flame support. Co-firing fuels must be approved in writing by the administering authority prior to use, other than any fuels otherwise approved by the administering authority.

2(B8) The sulphur content of any coal blend burned in power generation on an as received basis is not to exceed 0.35 per cent by weight on a monthly average and any fuel oils burned must not exceed 0.5% sulphur on a monthly weighted average.

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Schedule 2C – Water

Release of Contaminants to Waters

2(C1) The holder of this environmental authority is authorised to release contaminants from the licenced place at the locations listed in condition 2(C2) in accordance with the requirements of this schedule.

Release Point Details

2(C2) 'A' station:

a) Release Point R1: Stormwater and seepage runoff from Ash Dam 1,

b) Release Point R2: Process water, stormwater and seepage runoff from Ash Dam 2 / Callide A Wetland.

2(C3) Monitoring of release points R1 and R2 will be undertaken when discharge occurs as per Schedule 2G, Table 4 to ensure compliance with the parameters noted in Schedule 2G, Table 5.

Schedule 2D – Stormwater Management

Stormwater Management Plan

2(D1) The holder of this environmental authority must implement a Stormwater Management Plan. This management plan must be reviewed every five (5) years.

General Conditions

2(D2) The maintenance and cleaning of equipment or plant at 'A' Station must be carried out in designated areas. Process waters released from R1 and R2 are not to cause environmental harm.

2(D3) Any spillage of wastes, contaminants or other materials must be cleaned up as quickly as practicable.

2(D4) All bunding must be constructed of materials that are impervious to the materials stored.

2(D5) All permanent drum storage areas must be bunded and where practicable covered or roofed. Drums located in a temporary storage area or in use must be placed on portable bunds.

2(D6) The holder of this environmental authority must ensure that any stormwater released from bunds does not contain levels of contaminants that would cause environmental harm.

2(D7) Collected waste oil and sludge from the gravity separators must be removed and disposed of as required in a manner that does not cause environmental harm.

2(D8) Oil separator(s) and oil separating equipment must be regularly inspected and effectively maintained.

Schedule 2E – Land Application

Ash Release Location

2(E1) The Ash release area is described as the Waste Containment Facility as defined in Schedule 2I.

2(E2) The holder of this environmental authority is authorised to release ash and effluent to the waste containment facility from A, B and C sites including effluent and ash from:

- the sedimentation dams,
- effluent from the chemical drains,
- demineralisation and treatment plant,
- Callide C blowdown water,
- cooling tower blowdown,
- effluent from chemical cleans,
- washdown waters,
- quantities of oils and petroleum products that will not cause environmental harm,
- dirty drains,
- boiler blowdown,
- blowdown water treatment plant,
- ash dam B seepage pond waters,
- coal plant wastes,
- cooling tower sludges,
- waste ion exchange resins,
- bag filters (and including the bag filters),
- laboratory drains, and
- A and B station sewage effluent.

2(E3) Biosolids from the sewage treatment plant may be disposed of in the designated area adjacent to the sewage treatment plant. Such disposal must be made in a manner not to cause environmental harm.

Ash Dam Management Plan

2(E4) By 1 December 2005:

(a) The holder of this environmental authority must develop and implement an Ash Dam Management Plan for Ash Dam B (consisting of Spill Management Plan, Corrective Action

Plan, Emergency Action Plan, Ash Management Plan and Operations and Maintenance Manual) which provides for the following functions:

- minimisation of waste, where practicable;

- operation, maintenance, surveillance, and decommissioning of Ash Dam B and Ash Dam 4;

- optimisation of ash storage facilities;

- suppression of dust under extreme dry weather conditions;

- inspection and reporting on the integrity of Ash Dam B and Ash Dam 4, monitoring the storage capacity of Ash Dam B and the development of alternative ash storage facilities; and

- managing the risk of discharge from Ash Dam B.

(b) The Ash Dam Management Plan is to be prepared and certified by a suitably qualified and experienced person.

(c) The Ash Dam Management Plan must be submitted to the administering authority.

(d) Ash Dam B must be operated in accordance with the Ash Dam Management Plan.

2(E5) Upon construction of any modifications to either Ash Dam B or Ash Dam 4, the Ash Dam Management Plan must be amended to incorporate the modifications, which when amended is to be certified by a suitably qualified and experienced person.

2(E6) The Ash Dam Management Plan must be reviewed at least every three years. If the Ash Dam Management Plan is amended, the holder of this environmental authority must submit the revised Ash Dam Management Plan and certification to the administering authority within three months of any amendment.

Ash Dam Operational Criteria

2(E7) Ash Dam B must be designed so that the target for the annual risk of a discharge through the spillway is less than 0.01 AEP, measured at 1 November each year and calculated utilising the operational water balance model referred to in 2(E9).

2(E8) If the risk of a discharge through the spillway of Ash Dam B exceeds 0.01 AEP measured at 1 November each year, the holder of this environmental authority must implement a Contingency Plan (developed from the Corrective Action Plan) to reduce the risk of spill to below 0.01 AEP.

2(E9) The holder of this environmental authority must maintain an operational water balance model for Ash Dam B and its catchments and utilise it to determine the risk of a discharge through the Ash Dam B spillway. The operational water balance model must be prepared by a suitably qualified and experienced person, updated at least annually, and made available to the administering authority on request.

2(E10) On becoming aware that the risk of a discharge through the Ash Dam B spillway is greater than 0.01 AEP for a single 72 hour storm, or there is insufficient freeboard to meet the allowance for wave action generated by a 0.01 AEP wind, the holder of this environmental authority must:

(a) Notify the administering authority (in writing) within 24 hours; and

(b) Submit a Contingency Plan (developed from the Corrective Action Plan) to the administering authority and have due regard to its comments. The plan must detail the management measures, risk of discharge, the quantity of possible discharge and monitoring required to assess the level of environmental impact.

Preparing and Certifying the Design Plan

2(E11) Before constructing or modifying Ash Dam B or Ash Dam 4, a suitably qualified and experienced person must:

(a) Prepare a design plan in accordance with an appropriate engineering standard; and

(b) Certify that the design plan meets an appropriate engineering standard and is consistent with the conditions in the environmental authority.

Submitting the Certified Design Plan

2(E12) Before construction of modifications to Ash Dam B or Ash Dam 4, the holder of this environmental authority must submit the certified design plan to the administering authority.

2(E13) The design plan is deemed to be acceptable if the administering authority has not rejected the design plan within 28 days of its submission.

Completion of Construction

2(E14) Construction or modification shall be done only in accordance with an accepted design plan.

2(E15) When construction of the modification to Ash Dam B or Ash Dam 4 is complete, the holder of this environmental authority must:

(a) Obtain certification from a suitably qualified and experienced person that the construction of the modification to Ash Dam B or Ash Dam 4 is in accordance with the certified design plan; and

(b) If the modification is in accordance with the certified design plan, submit the construction certification to the administering authority; or

(c) If changes have occurred, submit a set of “as built” drawings and the construction certification to the administering authority.

Inspection of Ash Dam B and Ash Dam 4

2(E16) Ash Dam B must be inspected by a suitably qualified and experienced person on or about 1st October but no later than 1st November each year or at any time if alarming, unusual or otherwise unsatisfactory conditions are observed.

2(E17) Ash Dam 4 must be inspected by a suitably qualified and experienced person once every five (5) years from the date of issue (1979) of the original licence on or about 1st October but no later than 1st November or at any time if alarming, unusual or otherwise unsatisfactory conditions are observed.

2(E18) For each inspection, the suitably qualified and experienced person must assess the condition of the dam and its foundations, determine the hydraulic adequacy of the dam, and assess the adequacy of the works with respect to dam safety.

2(E19) For each inspection, two copies of the suitably qualified and experienced person's report and any recommendations as to measures to be taken to ensure the integrity of the dam must be provided to the administering authority within 28 days of the inspection.

Decommissioning of Ash Dam B and Ash Dam 4

2(E20) A Decommissioning Strategy for inclusion in the Ash Dam Management Plan must be documented and submitted to the administering authority at least 5 years prior to commencement of decommissioning.

2(E21) Ash Dam B and Ash Dam 4 must be decommissioned in accordance with the Decommissioning Strategy to a stable landform.

Rehabilitation Requirements

2(E22) The holder of this environmental authority must develop, implement and submit to the administering authority a Final Land Use and Rehabilitation Plan for that part of the Waste Containment Facility to be decommissioned at least two years prior to such decommissioning. The Plan must include, but is not limited to, the following:

(a) Disturbance type;

(b) Disturbance area;

(c) Proposed final surface level and contours, final drainage system and species of vegetation to be planted for the rehabilitation program;

(d) A description of rehabilitation management techniques incorporating works and monitoring programs and timetables;

(e) Indicators for success; and

(f) Keeping of appropriate records of rehabilitation measures implemented including taking of photographs demonstrative of rehabilitation achieved and the preparation of annual rehabilitation progress reports.

2(E23) Any amendments to the Rehabilitation Plan are to be submitted to the administering authority.

2(E24) A summary of the annual rehabilitation progress report must be submitted to the administering authority with each annual return, from when the Final Land Use and Rehabilitation Plan 2(E22) is implemented, until the environmental authority is surrendered or the administering authority advises that this reporting is no longer required (whichever is the earlier).

2(E25) Subject to acceptance by the administering authority, uncontaminated stormwater runoff from any rehabilitated area may be released from the licenced place.

Water Quality Monitoring of Releases from the Ash Dam B Seepage Interception System

2(E26) The holder of this environmental authority is responsible for ensuring that the seepage pond pump-back system to Ash Dam B is managed to ensure a low water level in the seepage ponds.

2(E27) The holder of this authority is authorised to release stormwater overflows from the seepage ponds, and is to provide the administering authority with:

(a) An estimate of the quantity of stormwater discharged; and

(b) An assessment of the stormwater discharge quality. All determinations of the quality must be made in accordance with conditions 2(G5) and 2(G6). The samples obtained must be analysed for:

(i) pH;

(ii) specific electrical conductivity;

(iii) total dissolved salts (calculated); and

(iv) dissolved oxygen.

Schedule 2F – Waste Management

General

2(F1) The holder of this environmental authority is authorised to burn in the boilers:

(a) coal to which waste oils and sludges from separators have been added;

(b) waste ion exchange resin and absorbent materials that have been used to soak up oil spills;

(c) chemical clean waste generated on site and approved by the Administering Authority.

2(F2) Natural vegetation may be burned periodically to reduce fire risk on the site. This does not exempt the holder of this environmental authority from compliance with any other Acts, Bylaws, Regulations, Rules or Ordinances of any Local Authority or Government Department regarding vegetation management or vegetation burning.

2(F3) Where a no-cost recycling service is available, recyclable waste must not be deposited in the general waste stream.

Waste Storage and Handling Conditions

2(F4) Drum storage of waste or processed materials must be clearly labelled and sealed or covered to prevent loss of contents or exposure of contents to the atmosphere as well as bunded in accordance with conditions 2(D5) and 2(D6).

2(F5) All loading and unloading of bulk materials must take place only within designated vehicle loading and unloading areas.

2(F6) **Waste Management Plan**

The holder of this environmental authority must maintain a current Waste Management Plan.

Schedule 2G – Self Monitoring and Reporting

Complaint Recording

2(G1) All complaints of an environmental nature received by the holder of this environmental authority relating to operations at the licenced place must be recorded with the following details:

a) time and date of complaints;

b) type of communication (telephone, letter, personal etc); name, contact address and contact number of complainant (NOTE: if the complainant does not wish to be identified, then 'not identified' is to be recorded);

c) response and investigation undertaken as a result of the complaint;

d) name of person responsible for investigating complaint; and

e) action taken as a result of the complaint investigation and signature of the responsible person.

Monitoring of Contaminant Releases to the Atmosphere

2(G2) The holder of this environmental authority must conduct a monitoring program of contaminant releases to the atmosphere at the release points specified in Schedule 2G, Table 1. The frequency of monitoring is specified in Schedule 2G, Table 3 and must comply with the following:

a) Monitoring provisions for the release points listed in Schedule 2G Table 2 must comply with the Australian Standard AS 4323 1 – 1995 "Stationary source emissions Method 1: Selection of sampling provisions", or the Department of Environment's Air Quality Sampling Manual 1997 and any subsequent versions.

b) The following tests must be performed for each required emission point specified in Schedule 2G Table 2:

- Particulates
- Nitrogen Oxides;

c) Where practicable, samples taken must be representative of the contaminants discharged under normal operating conditions.

Monitoring of Contaminant Releases to Waters

2(G3) The submitted ground water monitoring program must be maintained. The ground water monitoring program must include measuring groundwater constituents as listed in Schedule 2G, Table 6.

2(G4) Water monitoring will be undertaken by the holder of this environmental authority as noted in Schedule 2G Table 4, Schedule 2G Table 5 and Schedule 2G Table 6.

2(G5) All determinations of water quality must be done in accordance with the methods prescribed in the Environmental Protection Agency Water Quality Sampling Manual, 2nd Edition, December 1999, or more recent additions or supplements to that document as they become available, or the latest edition of the CS Energy Corporate Sciences Standards Methods Manuals.

2(G6) All determinations of the quality of contaminants released must be performed by a person or body with appropriate experience or training.

Report Submission

2(G7) The holder of this environmental authority must ensure that the results of all monitoring performed during the 12 months preceding the last Annual Return in accordance with this environmental authority are summarised annually and made available to the administering authority upon request.

Underground Water Monitoring

2(G8) The holder of this environmental authority must maintain bores for the purpose of sampling and analysing groundwater in accordance with condition 2(G3).

Schedule 2G Table 1

Source Description	Release Point Number	Minimum Release Height (Metres)
Callide Stack B1	CB1	210
Callide Stack A1	CA1	64
Callide Stack A2	CA2	64

Schedule 2G Table 2

Contaminant	Release Point Number	Release Limit	Release Limit Units
NOx	CB1	1200 not to be exceeded	Parts Per Million

Particulates	CB1	4 hour moving average not to exceed 340	mg/m^3
NOx	CA1, CA2	850 not be exceeded	Parts Per Million
Particulates	CA1, CA2	4 hour moving average shall not exceed 100 over 80% of the time per calendar month	mg/m^3

Schedule 2G, Table 2 Notes:

1. The concentration of solid particles (expressed as a 4 hour moving average) referenced to dry gas, 0 degrees Celsius, 101.32 kPa and corrected to 12% by volume by CO_2

2. The concentration of oxides of Nitrogen referenced to dry gas, 0 degrees Celsius, 101.32 kPA and corrected to 7% by volume of O_2.

Schedule 2G Table 3

Frequency	Release Point Number	Determination Required
Continuous	CA1, CA2, CB1	Particulates
Quarterly	CA1, CA2, CB1	Nitrogen Oxides

Schedule 2G Table 4

Quality Characteristic Determination	Frequency	Release Point
Quantity of water released	Twice weekly during discharge	R1 and R2
pH	Weekly during discharge	R1 and R2
Dissolved Oxygen	Weekly during discharge	R1 and R2
Suspended Solids	Weekly during discharge	R1 and R2
Total Dissolved Salts	Weekly during discharge	R1 and R2
Chloride	Weekly during discharge	R1 and R2

Schedule 2G Table 5

Quality Characteristic Determination	Discharge Limit	Limit Type
pH	6.5 – 9.0	Range
Dissolved Oxygen (mg/L)	2 mg/L	Minimum

Suspended Solids (mg/L)	100 mg/L	Maximum
Total Dissolved Salts (calculated mg/L)	1450 mg/L	Maximum
Chloride (mg/L)	400 mg/L	Maximum

Schedule 2G Table 6

Quality Characteristic Determination	Frequency	Location
pH	Annually	Groundwater Monitoring
Conductivity	Annually	Groundwater Monitoring
Total Arsenic	Annually	Groundwater Monitoring
Total Barium	Annually	Groundwater Monitoring
Total Calcium	Annually	Groundwater Monitoring
Chloride	Annually	Groundwater Monitoring
Total Chromium	Annually	Groundwater Monitoring
Total Copper	Annually	Groundwater Monitoring
Total Flouride	Annually	Groundwater Monitoring
Total Magnesium	Annually	Groundwater Monitoring
Total Molybdenum	Annually	Groundwater Monitoring
Total Potassium	Annually	Groundwater Monitoring
Total Selenium	Annually	Groundwater Monitoring
Total Sodium	Annually	Groundwater Monitoring
Total Strontium	Annually	Groundwater Monitoring
Total Sulphate	Annually	Groundwater Monitoring
Total Vanadium	Annually	Groundwater Monitoring
Total Zinc	Annually	Groundwater Monitoring

Schedule 2G Table 7 - Temporary release limits during a direction by AEMO

Emission or release	Release limit	Release point(s)	Duration of release limit
Particulate emissions	680mg/m3 (4-hour moving average)	CA1, CA2, CB1	For the duration of a direction by AEMO plus the 5-hour period immediately following the end of a direction.
Nitrogen Oxides	2400 (ppm)	CA1, CA2, CB1	For the duration of a direction by AEMO

Schedule 2I – Definitions

For the purposes of this environmental authority any term not otherwise defined in the Act and any subordinate legislation made pursuant to the Act or in the Definitions Schedule of this Environmental Authority has the meaning conferred to that term in its common usage.

In the event of any inconsistency arising between the meaning of any term provided in the Definitions Schedule of this Environmental Authority and any common usage of that term, the meaning conferred in the Definitions schedule of this environmental authority prevails.

For the purposes of this environmental authority, the following definitions apply:

"Act" means the Environmental Protection Act 1994.

"Administering Authority" means the Environmental Protection Agency or its successor.

"Land" means land excluding waters and the atmosphere.

"mg/L" means milligram per litre.

"Cubic Metre" ("m^3") means the volume of dry gaseous contaminant which occupies 1 cubic metre at a temperature of zero degrees Celsius and at an absolute pressure of 101.3 kilopascals.

"Waste Containment Facility" means the ash containment facilities including Ash Dam B and its associated seepage collection trenches and ponds, ash dam 1, ash dam 3 and ash dam 4, evaporation areas, the drains reclaim dam and the wetlands and sedimentation ponds associated with ash dam 2.

"Ash" means the residue after burning coal.

"Normal Unit Operating Conditions" is the normal operating state of a unit and means that the unit is operating on a stable coal flame with oil support no longer necessary.

"Products of Combustion" comprise all the solid and gaseous products from the combustion of fuel and include residual sulphur trioxide used to enhance precipitator performance.

"Process Water" means any water arising from the power station operating systems.

"4-hour moving average" means a calculation based upon continuous monitoring data collected over the previous 4 hours, which is updated at an interval of not more than 10 minutes.

"Continuous" means the use of automatic monitoring and recording instrumentation where data is logged at regular intervals no longer than 1 minute, with a minimum data capture rate of 80%.

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Schedule 4A – General Conditions

Access to Copy of Environmental Authority

4(A1) A copy of this environmental authority must be kept in a location readily accessible to personnel carrying out the activity.

Records

4(A2) Any record or document required to be kept by a condition of this Environmental Authority must be kept at the licenced place for a period of at least five years and be available for examination by an authorised person. For daily and weekly records, the record retention requirements of this condition will be satisfied if any daily and weekly records are kept for a period of at least three (3) years and these records are then kept in the form of annual summaries after that period. The records are to be kept either electronically or on paper.

Schedule 4D – Stormwater Management

4(D1) Any spillage of wastes, contaminants or other materials must be cleaned up as quickly as practicable.

4(D2) All bunding must be constructed of materials that are impervious to the materials stored.

4(D3) All permanent drum storage areas must be bunded and where practicable covered or roofed. Drums located in a temporary storage area or in use must be placed on portable bunds.

4(D4) The holder of this environmental authority must ensure that any stormwater released from bunds does not contain levels of contaminants that would cause environmental harm.

4(D5) Collected waste oil and sludge from the gravity separators must be removed and disposed of as required in a manner that does not cause environmental harm.

4(D6) Oil separator(s) and oil separating equipment must be regularly inspected and effectively maintained.

4(D7) Drum storage of waste or processed materials must be clearly labelled and sealed or covered to prevent loss of contents or exposure of contents to the atmosphere as well as bunded in accordance with conditions 4(D3) and 4(D4).

4(D8) All loading and unloading of bulk materials must take place only within designated vehicle loading and unloading areas.

Department of Environment and Heritage Protection
www.ehp.qld.gov.au ABN 46 640 294 485

Queensland Government