

Department of Environment and Heritage Protection

Permit¹

Environmental Protection Act 1994

Environmental authority - EPPR03567115

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

Permit¹ number: EPPR03567115

Environmental authority takes effect when your related development application takes effect. Prior to the commencement of the activity the administering authority must be given written notice of the proposed date of commencement.

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

Environmental authority holder

Name	Principal address
Ausco Modular Pty Limited	4-44 Formation Street WACOL QLD 4076

Environmentally relevant activity and location details

Environmentally relevant activity	Location
63-(1b)(i) 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, if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme.	568 Williamson Road, Jellinbah QLD Lot 50 Plan SP257934

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).

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



Contaminated land

It is a requirement of the EP Act that an owner or occupier of land give written notice to the chief executive if they become aware of the following:

- a notifiable activity (as defined in Schedule 3) that is being, or has been, carried out on the land ,(notice must be given within 20 business days)
- an event involving a hazardous contaminant on the land, or a change in the condition of the contaminated land, that is causing, or is reasonably likely to cause, serious or material environmental harm (notice must be given within 24 hours).

For further information, including the form for giving written notice, refer to the Queensland Government website <http://www.qld.gov.au/> (using the search term 'managing contaminated land').

J.A.H. Mackenzie

Signature

11-JAN-2016

Date

James Mackenzie
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); and
- offence to place contaminant where environmental harm or nuisance may be caused (section 443).

Conditions of environmental authority

The environmentally relevant activity 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
G1	Activities conducted under this environmental authority must not be conducted contrary to any of the following limitations: 1. Inflows must not exceed the peak design capacity of 53kL per day. 2. A minimum area of 2.7 hectares of land, excluding any necessary buffer zones, must be utilised for the irrigation of treated effluent. 3. A minimum buffer distance of 100m must be maintained between activity and the high banks of any watercourse, lake or wetland.
G2	All reasonable and practicable measures must be taken to prevent the likelihood of environmental harm being caused.
G3	Any breach of a condition of this environmental authority must be reported to the administering authority as soon as practicable, or at most, within 24 hours of becoming aware of the breach. Records must be kept including full details of the breach and any subsequent actions undertaken.
G4	Other than as permitted by this environmental authority, the release of a contaminant into the environment must not occur.
G5	All information and records required by the conditions of this environmental authority must be kept for a minimum of five years with the exception of environmental monitoring results which must be kept until surrender of this environmental authority. All information and records required by the conditions of this environmental authority must be provided to the administering authority upon request and in the format requested.
G6	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.
G7	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.

G8	You must record the following details for all environmental complaints received: a) date and time complaint was received b) name and contact details of the complainant c) nature of the complaint d) investigations undertaken e) conclusions formed f) actions taken.
G9	When required by the administering authority, monitoring must be undertaken in the manner prescribed by the administering authority, to investigate a complaint 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.
G10	The activity must be undertaken in accordance with written procedures that: 1. identify potential risks to the environment from the activity during routine operations, closure and an emergency 2. establish and maintain control measures that minimise the potential for environmental harm 3. ensure plant, equipment and measures are maintained in a proper and effective condition 4. ensure plant, equipment and measures are operated in a proper and effective manner 5. ensure that staff are trained in and aware of their obligations under the <i>Environmental Protection Act 1994</i> 6. ensure that reviews of environmental performance are undertaken at least annually.
G11	Chemicals and fuels in containers of greater than 15 litres must be stored within a secondary containment system.
Agency interest: Air	
Condition number	Condition
A1	Odours or airborne contaminants must not cause environmental nuisance at a sensitive place or commercial place.

Agency interest: Land

Condition number	Condition																												
L1	The only contaminants to be released to land are treated effluent in accordance with the <i>Table 2 – Treated effluent release limits to irrigation area</i>, and the associated requirements. Table 2 - Treated effluent release limits to irrigation area¹ <table><tr><th>Quality Characteristic (units)¹</th><th>Release Limit at Release Point</th><th>Limit type¹</th><th>Minimum Monitoring Frequency^{1,3}</th></tr><tr><td>Volume (L/ha/day)⁴</td><td>21,000</td><td>Maximum</td><td>Daily</td></tr><tr><td>Total Nitrogen (mg/L as N)⁵</td><td>30</td><td>Maximum</td><td>Monthly</td></tr><tr><td>Total Phosphorus (mg/L as P)⁵</td><td>10</td><td>Maximum</td><td>Monthly</td></tr><tr><td>pH (pH units)</td><td>6.5 – 8.5</td><td>Range</td><td>Monthly</td></tr><tr><td><i>E.coli</i> (CFU/100ml)</td><td><10</td><td>Maximum</td><td>Monthly</td></tr><tr><td>Electrical Conductivity (µS/cm)</td><td>1000</td><td>Maximum</td><td>Monthly</td></tr></table> Associated requirements - Monitoring must be in accordance with the administering authority's Water Quality Sampling Manual and all monitoring devices must be effectively calibrated and maintained. - Monitoring is to be undertaken at the outlet for the treated effluent for all parameters. - Monitoring must be undertaken when treated sewage effluent is being irrigated, unless irrigation has ceased for longer than the relevant parameters specified minimum frequency (e.g. if Total Nitrogen was only required to be monitored once a month, then a TN sample would not be required after the first month following cessation of the release). - Volume of release must be calculated based on the total irrigation area when irrigating the maximum volume or the worked out for the area of application based on the actual volume irrigated. - Indicators for TN and TP are recommended to be done as grab samples.	Quality Characteristic (units) ¹	Release Limit at Release Point	Limit type ¹	Minimum Monitoring Frequency ^{1,3}	Volume (L/ha/day) ⁴	21,000	Maximum	Daily	Total Nitrogen (mg/L as N) ⁵	30	Maximum	Monthly	Total Phosphorus (mg/L as P) ⁵	10	Maximum	Monthly	pH (pH units)	6.5 – 8.5	Range	Monthly	<i>E.coli</i> (CFU/100ml)	<10	Maximum	Monthly	Electrical Conductivity (µS/cm)	1000	Maximum	Monthly
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L2	Treated effluent released to land must be done in accordance with documentation that ensures: - drainage to groundwater and subsurface flows of contaminants to surface waters are prevented - surface pondage and run-off of effluent is prevented - degradation of soil structure is minimised - soil sodicity and the build-up of nutrients and heavy metals in the soil and subsoil are minimised - spray drift or overspray does not carry beyond effluent disposal areas - effluent disposal areas are maintained with an appropriate crop in a viable state for transpiration and nutrient uptake - in addition to the requirements of condition G1, sufficient buffer zones are maintained between disposal sites and sensitive environmental receptors.																												
L3	When weather conditions or soil conditions preclude the release of treated sewage effluent to land, effluent must not be irrigated to land.																												

Agency interest: Waste	
Condition number	Condition
WS1	Other than effluent released to land in accordance with conditions (L1) and (L3), all waste generated in carrying out the activity must be reused, recycled or removed to a facility that can lawfully accept the waste.

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.

Day means any 24 hour period.

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

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

NATA means National Association of Testing Authorities.

Noxious means harmful or injurious to health or physical well-being.

Offensive means causing offence or displeasure; is unreasonably disagreeable to the sense; disgusting, nauseous or repulsive.

Release of a contaminant into the environment means to:

- deposit, discharge, emit or disturb the contaminant
- cause or allow the contaminant to be deposited, discharged, emitted or disturbed
- fail to prevent the contaminant from being deposited, discharged emitted or disturbed
- allow the contaminant to escape
- fail to prevent the contaminant from escaping.

Secondary containment system means a system designed, installed and operated to prevent any release of contaminants from the system, or containers within the system, to land, groundwater, or surface waters.

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

- a dwelling, residential allotment, mobile home or caravan park, residential marina or other residential premises; or
- a motel, hotel or hostel; or
- a kindergarten, school, university or other educational institution; or
- a medical centre or hospital; or
- a protected area under the *Nature Conservation Act 1992*, the *Marine Parks Act 1992* or a World Heritage Area; or
- a public thoroughfare, park or gardens; or

- for noise, a place defined as a sensitive receptor for the purposes of the Environmental Protection (Noise) Policy 2008.

Total Nitrogen (TN) means the sum of Organic Nitrogen, Ammonia Nitrogen, Nitrite plus Nitrate Nitrogen, expressed as mg/L as Nitrogen. This includes both the inorganic and organic fraction of nitrogen.

Total Phosphorus (TP) means the sum of the reactive phosphorus, acid-hydrolysable phosphorus and organic phosphorus, as mg/L of Phosphorus. This includes both the inorganic and organic fraction of phosphorus.

Watercourse as defined in Section 8, Schedule 12 of the Environmental Protection Regulation 2008.

Wetland as defined by in Schedule 12 of the Environmental Protection Regulation 2008, means an area shown as a wetland on the map of referable wetlands.

You means the holder of the environmental authority.

END OF PERMIT