

Permit¹

Environmental Protection Act 1994

Environmental authority

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

Permit¹ number: EPPR03210515

Environmental authority takes effect 01 September 2015

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
Erneve Pty Ltd	65 Pasturage Road CABOOLTURE QLD 4510

Environmentally relevant activity and location details

Environmentally relevant activity(ies)	Location(s)
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.	308-312 Old Bay Road, Burpengary - Lot 3 Plan RP190432, Lot 2 Plan RP190432, Lot 2 Plan RP51144, Lot 1 Plan RP51144, Lot 169 Plan S31259

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.

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

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.



Signature



Date

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

Enquiries:
Department of Environment and Heritage
Protection
GPO Box 2454
BRISBANE QLD 4001
Phone: 1300 130 372
Fax: 07 3330 6037
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)

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
G1	Activities conducted under this environmental authority must be conducted in accordance with the following limitations: a) Total inflows to the combined sewage treatment works are limited to a peak design capacity of 160 KL per day; b) The activity is only permitted to occur on Lot 3 Plan RP190432, Lot 2 Plan RP51144, Lot 1 Plan RP51144 and Lot 169 Plan S31259.
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. The only exception to this condition is for <i>in situ</i> monitoring of pH and electrical conductivity.						
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: a) identify potential risks to the environment from the activity during routine operations, closure and an emergency b) establish and maintain control measures that minimise the potential for environmental harm c) ensure plant, equipment and measures are maintained in a proper and effective condition d) ensure plant, equipment and measures are operated in a proper and effective manner e) ensure that staff are trained in and aware of their obligations under the <i>Environmental Protection Act 1994</i> f) 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 .						
G12	Buffer zones must be established between the between treated effluent irrigation areas and the boundary of the specific environmental values in accordance with Table 1 – Buffer Zones. Table 1. Buffer Zones <table border="1"> <thead> <tr> <th>Environmental value</th><th>Minimum buffer distance</th></tr> </thead> <tbody> <tr> <td>Ramsar wetlands and referable wetlands</td><td>50m</td></tr> <tr> <td>All other waters</td><td>10m</td></tr> </tbody> </table>	Environmental value	Minimum buffer distance	Ramsar wetlands and referable wetlands	50m	All other waters	10m
Environmental value	Minimum buffer distance						
Ramsar wetlands and referable wetlands	50m						
All other waters	10m						
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: Water							
Condition number	Condition						
WT1	Other than releases of treated effluent to the constructed wetland and the constructed storage lake , contaminants must not be released to any waters .						

WT2	In addition to WT1, the release to waters must not produce any slick or other visible evidence of oil or grease, nor contain visible floating oil, grease, scum, litter or other visually objectionable matter.																																			
WT3	Structures, including the constructed wetland and constructed storage lake , used for the storage or treatment of effluent or wastes must be constructed, installed and maintained to: a) prevent any release of effluent or wastes from the structures, other than under condition (L1); b) ensure the stability of the structures.																																			
Agency interest: Land																																				
Condition number	Condition																																			
L1	The only contaminant to be released to land is treated effluent in accordance with the Table 2 – Treated effluent release limits to irrigation areas and the associated requirements. Table 2. Treated effluent release limits to irrigation areas <table><tr><th>Quality Characteristic (units)</th><th>Release limit from constructed storage lake</th><th>Release limit from commercial storage tank⁵</th><th>Limit type</th><th>Minimum monitoring frequency^{1,2,3}</th></tr><tr><td>Volume (L/ha/day)</td><td>19,000</td><td>20,000</td><td>Maximum</td><td>Daily</td></tr><tr><td>Total Nitrogen (mg/L as N)⁴</td><td>1.5</td><td>15</td><td>Maximum</td><td>Monthly</td></tr><tr><td>Total Phosphorus (mg/L as P)⁴</td><td>0.1</td><td>2</td><td>Maximum</td><td>Monthly</td></tr><tr><td>pH (pH units)</td><td>6.5-8.0</td><td>6.5-8.0</td><td>Range</td><td>Monthly</td></tr><tr><td>E.coli (CFU/100ml)</td><td>10</td><td>10</td><td>Maximum</td><td>Monthly</td></tr><tr><td>Electrical Conductivity (µS/cm)</td><td>470</td><td>470</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 of the constructed storage pond and commercial storage⁵ tank 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 TSS was only required to be monitored once a week, then a TSS sample would not be required after the first week following cessation of the release). - Indicators for TN and TP are recommended to be done as grab samples. - The commercial storage tank located in the south-west corner of Lot 3 Plan RP190432, which contains commercial sewage wastes which have been treated via the sewage treatment plant works.	Quality Characteristic (units)	Release limit from constructed storage lake	Release limit from commercial storage tank ⁵	Limit type	Minimum monitoring frequency ^{1,2,3}	Volume (L/ha/day)	19,000	20,000	Maximum	Daily	Total Nitrogen (mg/L as N) ⁴	1.5	15	Maximum	Monthly	Total Phosphorus (mg/L as P) ⁴	0.1	2	Maximum	Monthly	pH (pH units)	6.5-8.0	6.5-8.0	Range	Monthly	E.coli (CFU/100ml)	10	10	Maximum	Monthly	Electrical Conductivity (µS/cm)	470	470	Maximum	Monthly
Quality Characteristic (units)	Release limit from constructed storage lake	Release limit from commercial storage tank ⁵	Limit type	Minimum monitoring frequency ^{1,2,3}																																
Volume (L/ha/day)	19,000	20,000	Maximum	Daily																																
Total Nitrogen (mg/L as N) ⁴	1.5	15	Maximum	Monthly																																
Total Phosphorus (mg/L as P) ⁴	0.1	2	Maximum	Monthly																																
pH (pH units)	6.5-8.0	6.5-8.0	Range	Monthly																																
E.coli (CFU/100ml)	10	10	Maximum	Monthly																																
Electrical Conductivity (µS/cm)	470	470	Maximum	Monthly																																

L2	Treated effluent released to land must be done in accordance with documentation that ensures: a) drainage to groundwater and subsurface flows of contaminants to surface waters are prevented b) surface pondage and run-off of effluent is prevented c) degradation of soil structure is minimised d) soil sodicity and the build-up of nutrients and heavy metals in the soil and subsoil are minimised e) spray drift or overspray does not carry beyond effluent disposal areas f) effluent disposal areas are maintained with an appropriate crop in a viable state for transpiration and nutrient uptake g) in addition to the requirements of condition (G12), sufficient buffer zones are maintained between irrigation 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 lawfully disposed of offsite.

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.

Constructed storage lake means the lake located in the north-west portion/corner of Lot 2 Plan RP51144, constructed for the purpose of storing effluent treated through the residential sewage treatment systems and constructed wetland.

Constructed wetland means the wetland located in the north-west portion/corner of Lot 2 Plan RP51144, constructed for the purpose of treating effluent from the residential sewage treatment systems.

Day means any 24 hour period.

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

Environmental value 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.

Ramsar wetlands means an area subject to the Convention on Wetlands of International Importance, especially as Waterfowl Habitat' (Ramsar, Iran, 2 February 1971).

Referable wetlands means an area shown as a wetland on the Map of referable wetlands.

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.

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.

You means the holder of the environmental authority.

END OF PERMIT

Notice

Environmental Protection Act 1994

Decision on application for a suspended environmental authority

This notice is issued by the administering authority¹ pursuant to section 284F of the Environmental Protection Act 1994 to advise you of the decision made following the application to suspend an environmental authority.

To: Erneve Pty Ltd
65 Pasturage Road
CABOOLTURE QLD 4510

Email: wayned@brolgalakes.com.au

Attention: Mr Wayne Drinkwater

Your reference: EPPR03210515
Our reference: 429757

Decision made on the application to suspend an environmental authority

1. Application details

Your application to suspend an environmental authority EPPR03210515 dated 05 August 2015 for the period of 1 September 2016 to 30 August 2017 was received by the administering authority on 24 October 2016.

Property/location description: 308-312 Old Bay Road, Burpengary Lot 3 Plan RP190432, Lot 2 Plan RP190432, Lot 2 Plan RP51144, Lot 1 Plan RP51144, Lot 169 Plan S31259

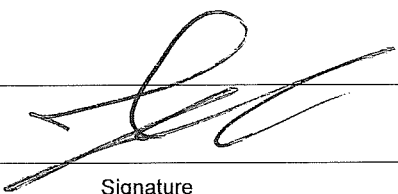
2. Decision

The administering authority has decided to approve the application to suspend an environmental authority.

The environmental authority is suspended for the period of 1 September 2016 to 30 August 2017 unless you terminate the suspension earlier.

¹ The Department of Environment and Heritage Protection is the administering authority under the *Environmental Protection Act 1994*.

Decision on application for a suspended environmental authority



Signature

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

21/11/2016

Date

Enquiries:

Lisa Fritz
Industry and Development Assessment
Phone: 4529 8329
Fax: 4529 8388
Email: lisa.fritz@ehp.qld.gov.au