Permit

Environmental Protection Act 1994

Environmental authority EPPR00437013

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

Environmental authority number: EPPR00437013

Environmental authority takes effect on the day it is signed by the delegate.

The anniversary date of this environmental authority remains 21 July. The payment of the annual fee will be due each year on this day.

Environmental authority holder

Name	Registered address
The University of Queensland	Cumbrae Stewart Building (No.72), The University of Queensland, ST LUCIA QLD 4072

Environmentally relevant activity and location details

Environmentally relevant activities	Locations
ERA 63 Sewage treatment (1)(c) operating sewage treatment works, other than no-release works, with a total daily peak design capacity of— more than 1,500 but not more than 4,000EP	Gatton Sewage Treatment Plant – Lot 184 Plan CC3374
ERA 63 Sewage treatment (2) operating a sewage pumping station mentioned in subsection (1)(b)	Reservoir Pump Station – Lot 184 Plan CC3374 GPS Coordinates (GDA2020): -27.5496, 152.3362 Thynne Pump Station – Lot 184 Plan CC3374 GPS Coordinates (GDA2020): -27.5541, 152.3373

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).

Queensland Government

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'.

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.

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

	15/06/2023
Signature	Date

Rebecca Griffiths
Department of Environment and Science
Delegate of the administering authority
Environmental Protection Act 1994

Enquiries:
Utilities and Government Organisations Assessment
Department of Environment and Science
Phone: 1300 130 372
Email: palm@des.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)

Other permits required

This permit only provides an approval under the *Environmental Protection Act 1994*. In order to lawfully operate you may also require permits / approvals from your local government authority, other business units within the department and other State Government agencies prior to commencing any activity at the site. For example, this may include permits / approvals with your local Council (for planning approval), the Department of Transport and Main Roads (to access state controlled roads), the Department of Resources (to clear vegetation), and the Department of Agriculture and Fisheries (to clear marine plants or to obtain a quarry material allocation).

Conditions of environmental authority

Part 1

Environmentally relevant activity	Location
ERA 63 Sewage treatment (1)(c) operating sewage treatment works, other than no-release works, with a total daily peak design capacity of— more than 1,500 but not more than 4,000EP	Lot 184 Plan CC3374

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

Agency Interest: General	
Condition number	**Condition**
G1-1	**Activities** must be conducted in accordance with the following: (a) Daily inflows into the sewage treatment plant must not exceed the daily peak design capacity of for standard treatment of 3 times the Design Average Dry Weather Flow (DADWF) of 180kL/**day** on any **day** unless the storm cycle mode is activated.
G1-2	All reasonable and practicable **measures** must be taken to prevent or minimise any **environmental harm** caused, or likely to be caused by the **activities**.
G1-3	Any contravention of a condition of this environmental authority must be reported to the **administering authority** as soon as practicable, but no more than 24 hours of becoming aware of the contravention.
G1-4	Within 14 **days** of providing the notification under condition G1-3, or a longer period agreed to in writing by the **administering authority,** an investigation must be completed into any contravention of a condition of the environmental authority to determine: (a) the potential circumstances and actions that may have contributed to the contravention; and (b) the environmental impact of the contravention; and (c) reasonable **measures** that could be implemented to address the cause of the contravention to prevent future contraventions of this nature.
G1-5	**Measures** identified under condition G1-4(c) must be implemented within: (a) 28 **days** of the investigation required by condition G1-4 being completed; or (b) a longer period agreed to in writing by the **administering authority**.
G1-6	The following details must be recorded for all contraventions of conditions within the environmental authority: (a) date and time the contravention occurred; and (b) nature and details of the contravention; and (c) investigations carried out in response to the contravention as required by condition G1-4; and (d) the results of investigations; and (e) **measures** taken under condition G1-4(c).

G1-7	Other than as permitted by this environmental authority, the **release of a contaminant into the environment** must not occur.
G1-8	All **records** required by the conditions of this environmental authority must be kept for a minimum of five years, and all monitoring results and **raw data** must be kept until surrender of this environmental authority.
G1-9	All **records** required by the conditions of this environmental authority must be provided to the **administering authority** upon request**:** (a) within the timeframe specified by the **administering authority**; and (b) in the format requested by the **administering authority**.
G1-10	An **appropriately qualified person(s)** must **monitor**, record and interpret all parameters that are required to be monitored by this environmental authority.
G1-11	All analyses required under this environmental authority must be carried out by a laboratory that has National Association of Testing Authorities (**NATA**) accreditation or an equivalent certification, for such analyses. The only exception to this condition is for in situ monitoring for pH and electrical conductivity.
G1-12	An annual monitoring report (Annual Monitoring Report) must be prepared and submitted to the **administering authority** by 31 March each year, for the preceding calendar year.
G1-13	The following details must be recorded for all **environmental complaints** received: (a) date and time the complaint was received; and (b) if authorised by the person making the complaint, their name and contact details; and (c) nature and details of the complaint; and (d) investigations carried out in response to the complaint as required by condition G1-14; and (e) the results of investigations; and (f) **measures** taken under condition G1-15.
G1-14	An investigation must be undertaken within 28 **days** (or a longer period agreed to in writing by the administering authority) into all complaints received to determine**:** (a) the potential circumstances and actions on site that may have contributed to the basis of the complaint; and (b) reasonable **measures** that could be implemented to address the complaint.
G1-15	**Measures** identified under condition G1-14 must be implemented within: (a) 28 **days** of the investigation required by condition G14 being finalised; or (b) a longer period agreed to in writing by the **administering authority.**
G1-16	When requested by the **administering authority**, monitoring must be undertaken in the manner and within the timeframe prescribed by the **administering authority,** to investigate any alleged **environmental harm** caused by the **activity**.
G1-17	The results, including an analysis of the results, of monitoring required by condition G1-16 must be provided to the **administering authority:** (a) within 10 **days** after you receive the monitoring results; or

	(b) a longer period agreed to in writing by the administering authority.
G1-18	Written procedures must be developed within 6 months of the date this Environmental Authority takes effect (by 30 December 2023) which: (a) identify all potential risks to the environment from the **activity**, including: (i) during routine operations; and (ii) outside routine operations; and (iii) during closure; and (iv) in an emergency; and (b) identify **measures** to prevent or minimise the potential for **environmental harm** for each of the potential risks identified; and (c) establish an inspection and maintenance program for plant and equipment including calibration and servicing that is in accordance with manufacturer's instructions; and (d) establish a staff training program on obligations under this environmental authority and the *Environmental Protection Act 1994* to be conducted as part of staff inductions and at least annually thereafter; and (e) establish processes to review environmental risks, incidents, performance and complaints.
G1-19	Written procedures required by condition G1-18 must be: (a) implemented; and (b) reviewed at least every two years; and (c) provided to the **administering authority** upon request and within a timeframe specified by the **administering authority**.
G1-20	Plant and equipment necessary to comply with the conditions of this environmental authority must be installed, operated, calibrated and maintained: (a) in a proper and effective manner; and (b) in accordance with the written procedures developed under condition G1-18 for the plant and equipment.
G1-21	Chemicals and fuels in containers of greater than 15 litres must be stored within a **secondary containment system.**
Agency Interest: Air	
Condition number	**Condition**
A1-1	Odours or airborne contaminants from the **activity** must not cause **environmental nuisance** to any **sensitive place** or **commercial place**.
A1-2	**Effluent** spray or overspray must not move beyond the **effluent disposal area.**
A1-3	A minimum buffer distance of 25m must be maintained between the **effluent disposal area** and areas of public access.

Agency Interest: Water	
Condition number	**Condition**
WT1-1	Other than as permitted by this environmental authority, contaminants from the activity must not be released to any **waters**.
WT1-2	Contaminants must not be released to **groundwater** or at a location where they are likely to release to **groundwater**.
WT1-3	Stormwater contaminated by the release of contaminants to the **effluent disposal area** must be managed to minimise or prevent any adverse effect on the environmental values of the receiving environment.
Agency Interest: Land	
Condition number	**Condition**
L1-1	Contaminants generated by the **activity** must only be released to the **Effluent Disposal Area** and **Filter Bed Bays** where the following requirements are complied with: 1. the **release** limits for each quality characteristic are complied with at the **monitoring** locations as specified in *Table 1 – Contaminant limits for releases to land*; and 2. releases are **monitored** at all **monitoring** locations and at the minimum **monitoring** frequency for each quality characteristic specified in *Table 1 – Contaminant limits for releases to land; and* 3. the associated requirements specified under *Table 1 – Contaminant limits for releases to land* are complied with and **records** that demonstrate that compliance are made.

Table 1 – Contaminant limits for releases to land

Monitoring location	**Discharge location**	**Quality characteristic (units)**	**Release limits**			**Minimum monitoring frequency**
			Minimum	**Mean**	**Maximum**	
STP final effluent well	**Effluent disposal area**	Irrigation rate (mm/**day**)	-	-	25	Daily
		Irrigation rate (mm/day)	-	2.5	-	Yearly
		Total Nitrogen TN (**mg/L** as N)	-	30	60	Monthly
		Total Phosphorus TP (**mg/L** as P)	-	10	15	Monthly
		pH (pH units)	6.5	-	8.5	Monthly
		Escherichia coli (E.coli)	-	-	1000	Monthly

			(MPN/100mL or CFU/100mL)				
			Electrical Conductivity (EC) (µS/cm)	-	-	1600	Monthly
Irrigation pump discharge	**Filter Bed Bays**		-	-	-	-	-

Associated requirements

1. **Monitoring** must be undertaken when **effluent** is being disposed, unless **effluent** disposal has ceased for longer than the relevant parameters specified minimum frequency (e.g., if pH was only required to be **monitored** once a week, then a pH sample would not be required after the first week following cessation of the **release**); and
2. Mean calculations required must be taken as a Long-Term Rolling Limit, meaning a limit applied to consecutive samples taken over a 12-month period (on a rolling basis for limit calculations) where consecutive samples are taken at the minimum frequency specified in *Table 1 – Contaminant limits for releases to land;* and
3. The daily irrigation rate **monitoring** must be calculated based on the total area irrigated on that **day**, and the actual volume of **effluent** irrigated on that same **day**; and
4. Volume **monitoring** must be undertaken using a flow meter.

L1-2

Releases to **land** authorised under condition L1-1 must comply with the following:

(a) the **effluent disposal area**, as shown in *Appendix 1 - Site Plan and Effluent Disposal Area* of this environmental authority, must have a minimum surface area of 40.9 hectares; and
(b) **releases** to **land** must only occur in the **effluent disposal area** or **Filter Bed Bays** as shown in *Appendix 1 - Site Plan and Effluent Disposal Area* of this environmental authority; and
(c) the **release** of treated **effluent** to the **effluent disposal area** must only be undertaken where a soil moisture deficit has been measured; and
(d) release of effluent to the Filter Bed Bays must only occur when:
    i) release of effluent to the **effluent disposal area** cannot be undertaken; and
    ii) effluent is unable to be stored in the wet weather storage; and
    iii) all practicable measures have been taken to prevent release of effluent to the **Filter Bed Bays**.

L1-3

The **Filter Bed Bays** must be installed and maintained to:

(a) have a total surface area 1.6 ha; and
(b) be fully surrounded by a bund of at least 0.5m high; and
(c) prevent the uncontrolled release of effluent from the filter bed bays; and
(d) have an available storage of up to 8.1 ML; and
(e) effluent that is released to the **Filter Bed Bays** must be removed from them either to wet weather storage or irrigated to land as soon as practicable.

L1-4

All reasonable and practicable measures must be taken to prevent public access to the **Filter Bed Bays**.

L1-7

All organic material removed from vegetation growing in the **effluent disposal area** must be transported and disposed of in an area other than in the **effluent disposal area**.

<table>
<tr><td>L1-8</td><td>When soil in the effluent disposal area is saturated, effluent must not be released to land.</td></tr>
<tr><td>L1-9</td><td>Wet weather storage, with a minimum volume of 10ML must be installed by within 18 months of the take effect date (by 30 December 2024) and maintained on the site for the storage of effluent.</td></tr>
<tr><td>L1-10</td><td>Ponding of contaminants within the effluent disposal area must not occur.</td></tr>
<tr><td>L1-11</td><td>Contaminants must not run off to areas beyond the effluent disposal area.</td></tr>
<tr><td>L1-12</td><td>Soil structure must not be degraded as a result of the activity.</td></tr>
<tr><td>L1-13</td><td>Soil sodicity and the build-up of nutrients and heavy metals in the soil and subsoil must be minimised.</td></tr>
<tr><td>L1-14</td><td>All reasonable and practicable measures must be taken to maintain the effluent disposal area with an appropriate crop in a viable state.</td></tr>
<tr><td>L1-15</td><td>All reasonable and practicable measures must be taken to prevent public access to the effluent disposal area.</td></tr>
<tr><td>L1-16</td><td>A land monitoring program (LMP) must be:
(a) designed by an appropriately qualified person to monitor the effects of the activity on land; and
(b) reviewed every 2 years by an appropriately qualified person and certified as being appropriate to monitor the effects of the activity on land.</td></tr>
<tr><td>L1-17</td><td>The LMP required by condition L1-16 must include:
(a) taking soil samples at a soil depth range of 0-30cm and 30-60cm from monitoring locations specified in Table 2 – LMP; and
(b) monitoring of the receiving environment at the monitoring location, and at the minimum monitoring frequency, and for the quality characteristics specified in Table 2 – LMP.
Table 2 – LMP
<table>
<tr><th>Monitoring locations</th><th>Quality characteristic (units)</th><th>Units</th><th>Minimum monitoring frequency</th></tr>
<tr><td rowspan="8">At least one reference site, and representative locations within the effluent disposal area.</td><td>Nitrate</td><td>mg/kg</td><td>Every 2 Years</td></tr>
<tr><td>pH</td><td>pH units</td><td>Every 2 Years</td></tr>
<tr><td>Total Kjeldahl nitrogen</td><td>mg/kg</td><td>Every 2 Years</td></tr>
<tr><td>Colwell phosphorus</td><td>mg/kg</td><td>Every 2 Years</td></tr>
<tr><td>Electrical Conductivity (EC) (1:5 Soil/Water mix)</td><td>µS/cm</td><td>Every 2 Years</td></tr>
<tr><td>Exchangeable sodium percentage</td><td>%</td><td>Every 2 Years</td></tr>
<tr><td>Phosphorus Buffering Index</td><td>PBI</td><td>Every 2 Years</td></tr>
</table></td></tr>
<tr><td>L1-18</td><td>The LMP required by condition L1-16 must include observations recorded at the time soil samples are taken, that record the extent to which there is evidence of:</td></tr>
</table>

	(a) **effluent** disposal induced surface runoff occurring to areas outside the **effluent disposal area**; and (b) surface ponding of **effluent** occurring.
L1-19	The LMP required by condition L1-16 must include: (a) the development of **trigger values**; and (b) the development of management actions to mitigate any adverse impacts caused, or likely to be caused, by the **activity**; and (c) the implementation of the management actions if an LMP **trigger value** is reached.
L1-20	The LMP required by condition L1-16 must be submitted to the **administering authority** upon request, and within a timeframe (which must be at least 1 business day) specified by, the **administering authority.**
L1-21	Any comments made by the **administering authority** on the LMP must be addressed to the reasonable satisfaction of, and within a timeframe (which must be at least 5 business days) specified by, the **administering authority**
L1-22	A report summarising the results of the LMP (LMP Report) must be prepared by an **appropriately qualified person** and submitted to the **administering authority** with the Annual Monitoring Report as required under G1-12.
L1-23	The LMP Report required by condition L1-22 must include: (a) a summary of the monitoring data obtained under the LMP in the relevant financial year; and (b) an evaluation of all relevant data obtained under the LMP, and include graphical representations showing all relevant historical data and a comparison of data trends against LMP **trigger values**; and (c) a description of all actions taken to minimise the environmental risk in response to information obtained through the LMP, including actions taken where **trigger values** in the LMP were reached; and (d) the results of those management actions.
L1-24	The LMP Report required by condition L1-22 must include analysis and interpretation of monitoring results by an **appropriately qualified person** that determines: (a) the ongoing capacity of the **effluent disposal area** to sustainably receive contaminant releases from the **activity,** including but not limited to the capacity of the **effluent disposal area** to sustainably adsorb nutrient loads from the **activity**; and (b) whether the **effluent disposal area** is sufficient in size for the volume of **effluent** disposed of to **land**; and (c) whether contaminants generated by the **activity** have migrated beyond the **effluent disposal area**; and (d) how the soil in the **effluent disposal area** has been impacted by the **activity**.
L1-25	The LMP Report required by condition L1-22 must include recommended action(s) to mitigate any adverse impacts caused, or likely to be caused, by the **activity** in respect of contaminant releases to **land**.

L1-26	Any action(s) recommended under condition L1-25 in the LMP Report must be undertaken: (a) as soon as practicable, but no later than 14 **days** after receiving the LMP Report; or (b) another period agreed to in writing by the **administering authority**.
Agency Interest: Noise	
Condition number	**Condition**
N1-1	Noise generated by the **activity** must not cause **environmental nuisance** to any **sensitive place** or **commercial place**.
Agency Interest: Waste	
Condition number	**Condition**
W1-1	All waste generated by the **activity** must be lawfully reused, recycled or lawfully removed to a facility that can lawfully accept the waste.
W1-2	Dewatering and/or storing of any **sludge** generated by the **activity** must be undertaken in an area which provides an impervious barrier to **land** and **waters**.

End of Part 1

Part 2

Environmentally relevant activity	Locations
ERA 63 Sewage treatment (2) operating a sewage pumping station mentioned in subsection (1)(b)	Reservoir Pump Station – Lot 184 Plan CC3374 GPS Coordinates (GDA2020): -27.5496, 152.3362 Thynne Pump Station – Lot 184 Plan CC3374 GPS Coordinates (GDA2020): -27.5541, 152.3373

The environmentally relevant activity conducted at the locations as described above must be conducted in accordance with the following conditions of approval.

Agency Interest: General	
Condition number	**Condition**
G2-1	All reasonable and practicable **measures** must be taken to prevent or minimise **environmental harm** caused by the **activity**.
G2-2	Written procedures must be developed by 30 December 2023 to: (a) identify all potential risks to the environment from the **activity**, including: i) during routine operations; and ii) outside routine operations; and iii) during closure; and iv) in an emergency; and (b) identify **measures** to prevent or minimise the potential for **environmental harm** for each of the potential risks identified; and (c) establish an inspection and maintenance program for plant and equipment, including calibration and servicing that is in accordance with manufacturer's instructions where reasonable and practicable to do so; and (d) establish a staff training program on obligations under this environmental authority and the *Environmental Protection Act 1994* to be conducted as part of staff inductions and at least every two years thereafter; and (e) establish processes to review environmental risks, incidents, performance and complaints.
G2-3	Written procedures required by condition G2-2 must be: (a) implemented; and (b) **reviewed** at least every two years; and (c) provided to the **administering authority** upon request and within a timeframe specified by the **administering authority**.
G2-4	Plant and equipment necessary to comply with the conditions of this environmental authority must be installed, operated and maintained: a) in a proper and effective manner; and b) in accordance with any written procedures developed under condition G2-2 for the plant and equipment.
G2-5	All **records** required by the conditions of this environmental authority must be kept for a minimum of five years.

G2-6	All **records** required by the conditions of this environmental authority must be provided to the **administering authority** upon request at the time and in the format requested by the **administering authority**.
G2-7	Any contravention of conditions G2-1, G2-13, A2-1 or N2-1 of this environmental authority must be reported to the **administering authority** via the Pollution Hotline as soon as practicable, but no more than 24 hours after becoming aware of the contravention.
G2-8	**Records** relating to any contravention of a condition of this environmental authority must be made including full written details of the contravention and any subsequent actions taken.
G2-9	When required by the **administering authority**, monitoring must be undertaken in the manner prescribed by the **administering authority**, to investigate any environmental harm alleged by the **administering authority** caused by the activity.
G2-10	Any report, results and underlying raw data, of monitoring required by condition G2-9 must be provided to the **administering authority** upon request at the time and in the format requested.
G2-11	Details of all **environmental complaints** received must be recorded including: a) date and time the complaint was received; and b) name and contact details of the complainant when provided by the complainant; and c) nature of the complaint; and d) investigations undertaken; and e) conclusions formed; and f) actions taken.
G2-12	By 31 December 2024, essential operational components of pumping stations which may be damaged by flooding must be protected from the 1 in 100 year flood level.
G2-13	**Contaminants** must not be released to **land** or **waters** as a result of the **activity** unless all reasonable and practicable measures have been taken to prevent the release.
G2-14	The **administering authority** must be notified via the Pollution Hotline as soon as practicable, but no more than 24 hours after becoming aware of a sewage release that: a) poses a threat to public health (for example, contamination of **waters** with primary recreation values); or b) results in any observable environmental impact (for example, fish kill, distress to wildlife, marine plants or other aquatic life); or c) involves discharge to, or is likely to impact upon, a sensitive environment (for example, Ramsar wetland, marine park, or area designated as a conservation zone under a relevant planning scheme); or d) is 10,000L or more during dry weather.

Agency Interest: Air	
Condition number	**Condition**
A2-1	Odour or airborne **contaminants** from the activity must not cause **environmental nuisance** at a **sensitive place** or **commercial place**.
Agency Interest: Noise	
Condition number	**Condition**
N2-1	Noise generated by the **activity** must not cause **environmental nuisance** at a **sensitive place** or **commercial place**.

End of Part 2

Definitions

Where a word or phrase in this document is **bolded**, it has its corresponding meaning that is defined below.

Where a word or phrase in this document is **not bolded**, it has the meaning given to it in (in order of priority):

(a) the *Environmental Protection Act 1994*, its regulations or its environmental protection policies;
(b) *Environmental Offsets Act 2014*;
(c) *Regional Planning Interests Act 2014*;
(d) *Waste Reduction and Recycling Act 2011*;
(e) *The Acts Interpretation Act 1954*;
(f) the Macquarie Dictionary (taking account of the context in which the word or phrase is used in this document).

Defined words or phrases in the singular include the plural and vice versa.

Filter Bed Bays means the three (3) filter bed bays identified in *Appendix 1 - Site Plan and Effluent Disposal Area*.

Activity means the environmentally relevant activity(s) to which the environmental authority relates. An activity may be undertaken on the whole or a part of a site.

Administering authority means the Chief Executive administering the *Environmental Protection Act 1994*.

Appropriately qualified person means a person or persons who has professional qualifications, training, skills and experience relevant to the environmental authority (EA) requirements and can give authoritative assessment, advice and analysis in relation to the EA requirements using the relevant protocols, standards, methods and/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(s) means any 24-hour period of a calendar day.

Effluent means the liquid fraction of treated sewage.

Effluent Disposal Area means the effluent disposal area identified in *Appendix 1 - Site Plan and Effluent Disposal Area***.**

Environmental complaints means an expression of dissatisfaction, concern or report, whether written or verbal, about the **activity** and/or its impact on the environment

Environmental harm is any adverse effect, or potential adverse effect (whether temporary or permanent and of whatever magnitude, duration or frequency) on an environmental value, and includes environmental nuisance.

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*.

Groundwater means water that occurs naturally in, or is introduced artificially into, an aquifer.

Land means land excluding waters and the atmosphere.

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

Monitor, monitored and monitoring means monitoring the impact of an activity on the receiving environment and includes analysing, assessing, examining, inspecting, measuring, modelling or reporting any of the following matters—

(a) the quantity, quality, characteristics, timing and variability of the release of any contaminant; and

(b) the effectiveness of any control measure; and
(c) the characteristics of, and impact on, the receiving environment; and
(d) the effectiveness of remedial or rehabilitation measures (if applicable to the relevant monitoring requirement).

Person means an individual and a corporation, as per section 32D of the *Acts Interpretation Act 1954*.

Raw data means primary data collected from a source that has not been processed and includes monitoring sheets, monitoring device readings, laboratory analysis results and certificate of analysis.

Records include breach notifications, written procedures, analysis results, monitoring reports and monitoring programs required under a condition of this authority.

Release of a contaminant into the environment or **release** means to:

(a) deposit, discharge, emit or disturb the contaminant; or
(b) cause or allow the contaminant to be deposited, discharged, emitted or disturbed; or
(c) fail to prevent the contaminant from being deposited, discharged emitted or disturbed; or
(d) allow the contaminant to escape; or
(e) fail to prevent the contaminant from escaping.

Saturated means the soil moisture level is greater than the soil field capacity.

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 any of the following places:

(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 park or garden; or
(g) for noise, a place defined as a sensitive receptor for the purposes of the Environmental Protection (Noise) Policy 2019; or
(h) the area within the curtilage of any of the above places.

Subsoil is the layer (or stratum) of soil immediately underneath the surface topsoil. It is the weathered soil layer extending between the natural topsoil and the unweathered basal layer (geological parent material) below, or similar material on which topsoil can be spread.

Sludge means any residual, semi-solid material that is produced as a by-product from the activity.

The site means the area of land identified as being approved for the carrying out of the activity as per *Appendix 1 - Site Plan and Effluent Disposal Area* of this environmental authority.

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**.**

Viable state or **viability** means able to live and grow.

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.

Appendix 1 - Site Plan and Effluent Disposal Area



END OF ENVIRONMENTAL AUTHORITY