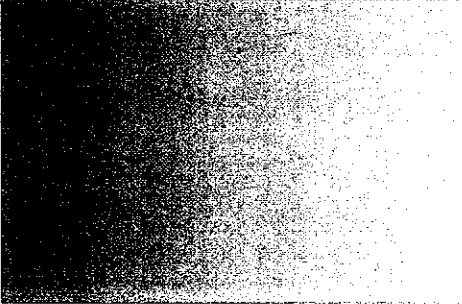




Registration certificate

Environmental Protection Act 1994

Registration certificate

No: ENRE03776812

This registration certificate is issued by the administering authority and is a replacement document for the approval issued on: 30 March 2012.

The anniversary day for the purposes of the Annual Return remains: 30 March.

This registration certificate is a requirement of section 73F of the *Environmental Protection Act 1994* and authorises the registered operator to undertake the activity listed below at the following place; subject to the conditions set out in a development approval attached to the premises, or the relevant code of environmental compliance.

Registered Operator:-

Barry Woodall
T/A Bouganvilla Caravan Park
399 Brendonna Road
GLADSTONE QLD 4680

Development Approval Number: SPDE03681512

Place:-

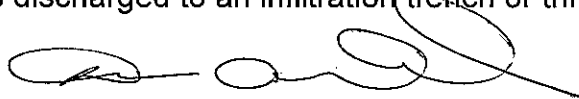
Lot 1 Plan SP246140

Located at:-

399 Brendonna Road, GLADSTONE QLD 4680

Registered Activity: -

ERA 63 Sewage treatment Threshold 2(a) - operating sewage treatment works, other than no-release works, with a total daily peak design capacity of 21 to 100EP (i) if treated effluent is discharged to an infiltration trench or through an irrigation scheme



Delegate
Department of Environment and Heritage Protection
Environmental Protection Act 1994

26 October 2012

DERM Permit ¹ number: SPDE03681512

Assessment manager reference (if any):	SPDE03681512
Date application received:	3 January 2012
Permit type:	Development permit
Date of decision:	27 February 2012
Decision:	For a decision notice the application is approved subject to conditions, and the assessment manager's conditions are stated in this permit
Relevant laws and policies:	<i>Environmental Protection Act 1994</i> and any related statutory instruments and subordinate legislation
Jurisdiction(s):	<i>Sustainable Planning Regulation 2009</i> - Schedule 3, Part 1, Table 2, item 1

Development Description(s)

Property/Location		Development
399 Brendonna Road, Burua Qld 4680	Lot 1 RP612886	ERA 63 Sewage treatment Threshold 2(a)(i) – operating sewage treatment works, other than no-release works, with a total daily peak design capacity of more than 21 to 100EP – if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme.

¹ Permit includes licences, approvals, permits, authorisations, certificates, sanctions or equivalent/similar as required by legislation administered by the Department of Environment and Resource Management.

Reason(s) for inclusion of conditions

In accordance with section 244 of the *Sustainable Planning Act 2009*, the reason(s) for inclusion of conditions stated in this permit required for the application are as follows.

The conditions are included pursuant to section 73B of the Environmental Protection Act 1994.

Additional information for applicants

Environmentally Relevant Activities

The description of any environmentally relevant activity (ERA) for which a development approval 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 a development approval as to the scale, intensity or manner of carrying out an ERA, then the conditions prevail to the extent of the inconsistency.

A development permit authorising the carrying out of an ERA does not authorise any environmental harm unless a condition stated by the permit specifically authorises environmental harm.

A person carrying out an ERA must hold a registration certificate issued under the *Environmental Protection Act 1994*, or must be acting under a registration certificate, for the ERA.

Contaminated land

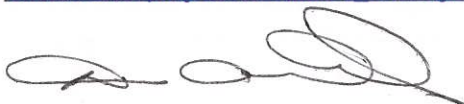
It is a requirement of the *Environmental Protection Act 1994* that if an owner or occupier of land becomes aware a Notifiable Activity (as defined in Schedule 3 and Schedule 4 of the *Environmental Protection Act 1994*) is being carried out on the land, or that the land has been, or is being, contaminated by a hazardous contaminant, the owner or occupier must, within 22 business days after becoming so aware, give written notice to the Department of Environment and Resource Management.

Aboriginal Cultural Heritage

Under section 23 of the Aboriginal Cultural Heritage Act 2003 a person who carries out an activity must take all reasonable and practicable measures to ensure the activity does not harm Aboriginal cultural heritage (the "cultural heritage duty of care"). Maximum penalties for breaching the duty of care are \$1,000,000 for a corporation and \$100,000 for an individual.

Applicants will comply with the duty of care in relation to Aboriginal cultural heritage if they are acting in accordance with cultural heritage duty of care guidelines gazetted under the Aboriginal Cultural Heritage Act 2003, available on the DERM website, or in accordance with an agreement with the Aboriginal party for the area or a cultural heritage management plan approved under part 7 of the Aboriginal Cultural Heritage Act 2003.

Applicants are also encouraged to undertake a search of the Aboriginal Cultural Heritage Database and the Aboriginal Cultural Heritage Register, administered by the Cultural Heritage Coordination Unit, DERM. Application forms to undertake a free search of the Cultural Heritage Register and the Database may be obtained by contacting the Cultural Heritage Coordination Unit on (07) 3239 3647 or on the DERM website www.derm.qld.gov.au/cultural_heritage.



Delegate

Don Arnold

Delegate of the Chief Executive administering the
Environmental Protection Act 1994.

Department of Environment and Resource Management
27 February 2012

CONDITIONS OF APPROVAL

Agency Interest:

- G- General
- A- Air
- N- Noise
- W- Waste
- WA1- Water
- L- Land
- S- Social
- D- Definitions

Agency Interest: General

G1 Scale and Intensity

This development approval authorises the operation of sewage treatment works with a daily peak design capacity of 18,000 litres.

G2 Prevent and/or minimise likelihood of environmental harm

In carrying out an Environmentally Relevant Activity (ERA) to which this approval relates, all reasonable and practicable measures must be taken to prevent and/or minimise the likelihood of environmental harm being caused.

G3 Maintenance of measures, plant and equipment

The registered operator of this development approval must:

- a) Install all measures, plant and equipment necessary to ensure compliance with conditions of this approval; and
- b) Maintain such measures, plant and equipment in a proper and efficient condition; and
- c) Operate such measures, plant and equipment in a proper and efficient manner.

G4 Alterations

No change, replacement or operation of any plant or equipment is permitted if the change, replacement or operation of the plant or equipment increases, or is likely to substantially increase the risk of environmental harm above that expressly provided by this development approval.

G5 Site Based Management Plan

Within three (3) months of the date of commencement of this development approval, a site based management plan (SBMP) must be implemented. The SBMP must identify all sources of environmental harm, including but not limited to the actual and potential release of all contaminants, the potential

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impact of these sources and what actions will be taken to prevent the likelihood of environmental harm being caused. The SBMP must include a program for the irrigation of treated effluent and address the following matters:

- a) Environmental commitments – a commitment by senior management to achieve specified and relevant environmental goals.
- b) Identification of environmental issues and potential impacts.
- c) Control measures for routine operations to minimise likelihood of environmental harm.
- d) Contingency plans and emergency procedures for non-routine situations.
- e) Organisational structure and responsibility.
- f) Effective communication.
- g) Monitoring of contaminant releases.
- h) Conducting environmental impact assessments.
- i) Staff training.
- j) Record keeping.
- k) Periodic review of environmental performance and continual improvement.

G6 The SBMP must not be implemented or amended in a way that contravenes any condition of this development approval.

G7 Records

Record, compile and keep all monitoring results required by this approval and provide this information to the administering authority upon request.

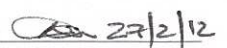
G8 All records required by this approval must be kept for five (5) years.

G9 Cease Activities in the Event of Material or Serious Environmental Harm

If the registered operator becomes aware of material or serious environmental harm as a result of carrying out the activity, the said activity must cease immediately and remedial measures be implemented forthwith.

G10 Notification

Within 24 hours of any person operating under this development approval becoming aware of any emergency or incident which results in the release of contaminants not in accordance, or reasonably expected to be not in accordance with the conditions of this development approval, the holder must notify the administering authority of the release.

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G11 Written advice detailing the following information must be provided to the administering authority within fourteen (14) business days following any notification in accordance with condition G10:

- a) The name of the operator, including their approval/registration certificate number; and
- b) The name and telephone number of a designated contact person; and
- c) The quantity and substance released; and
- d) The location of the release/event; and
- e) The time and date of the release/event; and
- f) The time the registered operator became aware of the release/event; and
- g) The suspected cause of the release/event; and
- h) A description of the resulting effects of the release/event; and
- i) The results of any sampling performed in relation to the release/event; and
- j) Actions taken to mitigate any environmental harm (including environmental nuisance) caused by the release/event; and
- k) Proposed actions to prevent a reoccurrence of the release/event.

G12 Incident Recording

The registered operator must maintain records of the time, date and duration of equipment malfunctions, where the failure results, or is reasonably likely to result in the release of contaminants which cause environmental harm.

G13 Equipment Calibration

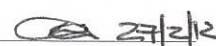
All instruments, equipment and measuring devices used for measuring or monitoring in accordance with any condition of this development approval must be calibrated and appropriately operated and maintained. Records must be kept of any calibration undertaken.

G14 Trained / Experience Operator(s)

The daily operation of the sewage treatment works must be carried out by a person(s) with appropriate experience and qualifications to ensure the effective operation of the works.

G15 Spill Kit

An appropriate spill kit, personal protective equipment and relevant operator instructions/emergency procedure guides for the management of wastes and chemicals associated with the sewage treatment works must be kept at the site.

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G16 Spill Kit Training

Anyone operating under this development approval must be trained in the use of the spill kit.

G17 Backup Power Supply

A backup power supply of a capacity sufficient to maintain operation of the sewage treatment works must be available and used in the event that mains power supply is interrupted.

G18 Sampling

All analysis and tests required to be conducted under this development approval must be carried out by a laboratory that has National Association Testing Authorities (NATA) certification for such analysis and tests, except as otherwise prior approved by the administering authority.

G19 Exception Reporting

The registered operator must notify the administering authority in writing of any monitoring result which indicates an exceedance of this development approval within twenty four (24) hours of completion of analysis. The written notification must include:

- a) The full analysis results; and
- b) Details of investigation or corrective actions taken; and
- c) Any subsequent analysis.

G20 Third Party Environmental Auditing

Compliance with the conditions of this development approval and with the requirements of the SBMP required in (G5) must be independently audited within six (6) months of commencement of the date of this development approval.

G21 The audit required by condition (G20) must be conducted by a suitably qualified third party auditor, nominated by the registered operator and accepted by the administering authority.

G22 In relation to the audit required by condition (G20), the registered operator must submit a final version of the auditor's report to the administering authority within twenty eight (28) business days of completing the audit. The report must be accompanied by a statutory declaration from the auditor, stating that the report accurately represents the findings of the auditor.

G23 The total financial cost of the third party audit is borne by the registered operator.

G24 Display of Development Approval

A copy of this development approval must be kept readily accessible to all personnel carrying out the activity.

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Agency Interest: Air

A1 Nuisance

The release of noxious or offensive odours or any other noxious or offensive airborne contaminants resulting from the activity must not cause a nuisance at any nuisance sensitive or commercial place.

- A2** When requested by the administering authority, monitoring must be undertaken to investigate any complaint of environmental nuisance caused by a release to the atmosphere and the results thereof notified to the administering authority within fourteen (14) business days following completion of the monitoring.

Agency Interest: Noise

N1 Noise Nuisance

Noise must not cause an environmental nuisance at any nuisance sensitive place or commercial place.

Agency Interest: Waste

- W1** Screenings, grit and sewage sludge generated by the sewage treatment works must not be stored on site for any period of time longer than necessary to dewater the screenings, grit and sludge and prepare it for transport to a facility that can lawfully accept such waste for disposal, reuse, recycling or reprocessing.

W2 Waste Transport

All regulated waste removed from the premises to which this development approval relates must be removed by a person who holds a current approval to transport such waste under the provisions of the *Environmental Protection Act 1994*.

W3 Waste Records

Records must be kept of all waste removed from the facility, detailing the following information:

- a) Date the waste was removed; and
- b) Description of the waste; and
- c) Quantity of the waste; and
- d) Destination of the waste.

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Agency Interest: Water**WA1 Monitoring Generally**

All determinations of water quality must be:

- a) Made in accordance with methods prescribed in the latest edition of the Department of Environment & Resource Management *Water Quality Sampling Manual* or subsequent versions; and
- b) Carried out on samples that are representative of the media being tested.

WA2 Release to Waters

Contaminants must not be released to any water(s) or the bed and banks of any water(s).

WA3 Stormwater Management

There must be no release of stormwater runoff that has been in contact with any contaminants at the site to any waters, roadside gutter or stormwater drain.

WA4 A groundwater monitoring network must be installed with monitoring bores at the locations stated in Table 1 – Groundwater Monitoring Locations.

Table 1 – Groundwater monitoring locations

Bore number	Bore type	Description	Bore location
GW1	Monitoring bore	West of irrigation area	S: 23° 57'0.8" E: 151°12'56.8"
GW2	Monitoring bore	North-East of irrigation area	S: 23°57'5.34" E: 151°13'8.67"

WA5 Monitoring bores must be capped and locked when not in use.

WA6 Monitoring bores must be identifiable with corresponding bore number as outlined in Table 1 – Groundwater monitoring locations.

WA7 Monitoring must be conducted and records kept of groundwater quality for the relevant monitoring bores required by condition WA4 of this development approval.

WA8 Groundwater monitoring must at least be conducted for the water parameter and at the frequency stated in Table 2 – Groundwater Monitoring.

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Table 2 – Groundwater Monitoring

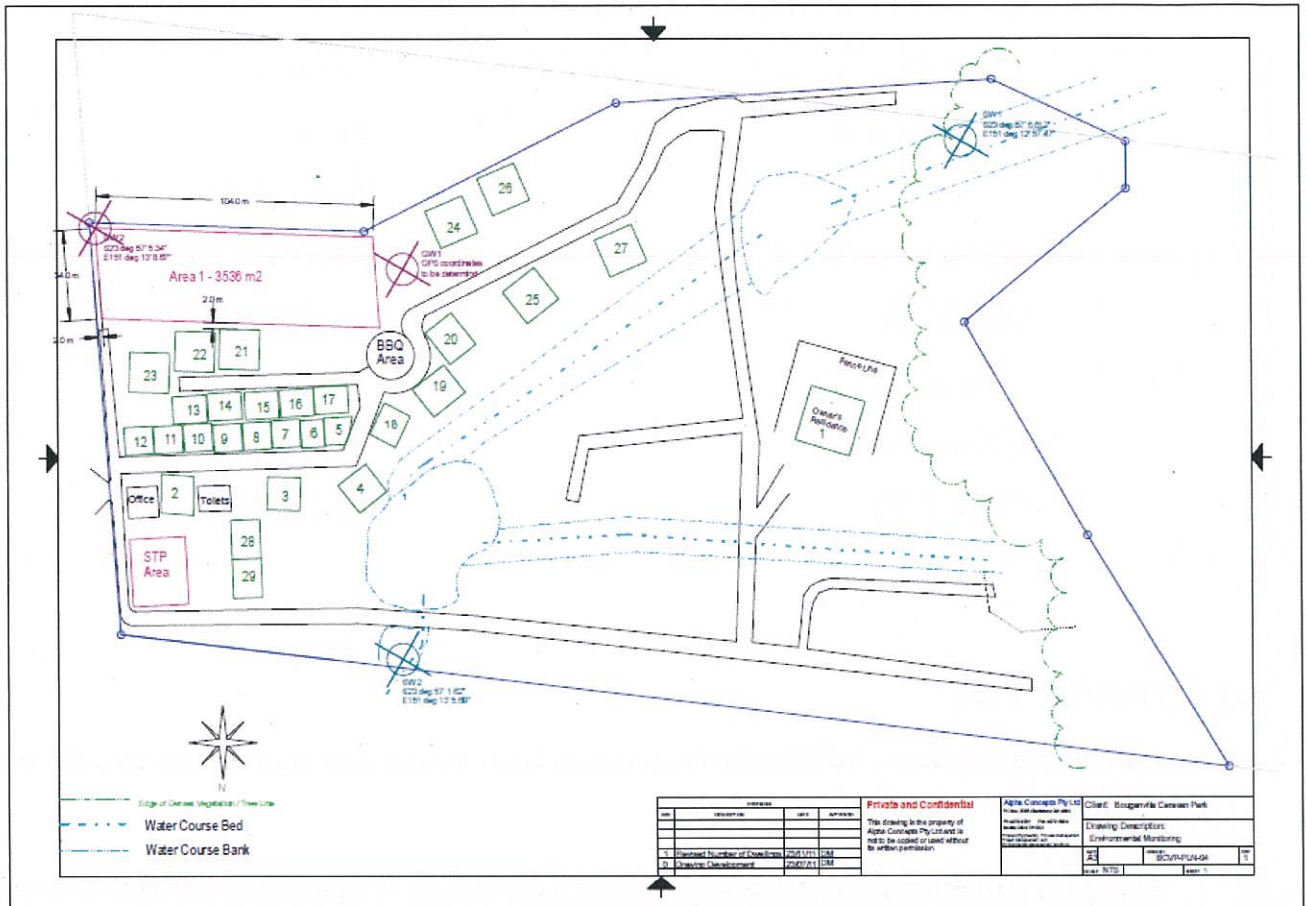
Parameter	Frequency
Standing Water Level	Annually
pH	Annually
Electrical Conductivity	Annually
Total Nitrogen	Annually
Nitrate	Annually
Total Phosphorous	Annually
Total Coliforms	Annually

Agency Interest: Land

- L1** The maximum release of treated effluent to the approved irrigation area must not exceed 8,900 litres per day.
- L2** All existing wastewater treatment facilities, including septic tanks and package treatment plants must be decommissioned within six (6) months of the date of this development approval.
- L3** **Release to Land**
Treated sewage effluent must only be irrigated to land in the location identified as Area 1 in Schedule L Map 1 – Site Map.

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Schedule L Map 1 – Site Map



- L4** The only contaminants permitted to be released to land are treated sewage effluent that is in compliance with the limits stated in Table 3 – Contaminant Release Limits to Land and the conditions of this development approval.
- L5** Notwithstanding the quality characteristic limits specified in Table 3 – Contaminant Release Limits to Land, releases of treated sewage effluent must not have any properties nor contain any organisms or other contaminants in concentrations that are capable of causing environmental harm.

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Table 3 – Contaminant Release Limits to Land

Quality Characteristic	Units	Minimum	Maximum	Monitoring frequency ¹	Monitoring frequency ²
5-day Biochemical Oxygen Demand (inhibited)	mg/L	-	20	Monthly	Quarterly
Total Suspended Solids	mg/L	-	30	Monthly	Quarterly
pH	Scale	6.5	8.5	Monthly	Quarterly
Total Nitrogen	mg/L as Nitrogen	-	30	Monthly	Quarterly
Total Phosphorus	mg/L as Phosphorous	-	10	Monthly	Quarterly
Electrical Conductivity	microSiemens per cm	-	1600	Monthly	Quarterly
E. coli	Colony forming units/100mL	-	<100	Monthly	Quarterly
Residual chloride	mg/L	-	2	Monthly	Quarterly

NOTES:

1. Monitoring frequency to be implemented for a minimum of 3 months following commencement of the ERA to which this approval relates.
2. Monitoring frequency to be implemented following 3 months of demonstrated compliance with quality characteristics outlined for Monitoring Frequency 1.
2. If exceedances are reported during the quarterly monitoring period the operator must revert to monthly monitoring frequencies until conformance is achieved for 3 continuous months, after which quarterly monitoring will resume.

- L6** Monitoring must be undertaken and records kept of a monitoring program of contaminant releases to the irrigation area(s) at the frequency and for the parameters specified in Table 3 – Contaminant Release Limits to Land.
- L7** A minimum area of 3,500m² of land, excluding any necessary buffer zones, must be utilised on each occasion that treated sewage effluent is being irrigated.
- L8** Irrigation of treated sewage effluent must not result in runoff beyond the boundary of the irrigation area.

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L9 Flow Volume

The daily volume of contaminants released to land must be determined by an appropriate method, for example through the use of a calibrated flow meter. Records must be kept of such determinations.

L10 The irrigation of treated sewage effluent must be carried out in a manner such that:

- a) Vegetation is not damaged; and
- b) Soil erosion and soil structure damage is avoided; and
- c) There is no surface ponding of treated sewage effluent; and
- d) Percolation of effluent beyond the plant root zone is minimised; and
- e) The capacity of the land to assimilate nitrogen, phosphorus, salts, organic matter as measured by oxygen demand and water is not exceeded; and
- f) The quality of groundwater is not adversely affected.

L11 Pipelines and fittings associated with the effluent irrigation system must be clearly identified.

L12 Notices must be prominently displayed on areas undergoing irrigation, warning the public that the area is irrigated with recycled water and not to use or drink the recycled water. These notices must be maintained in a visible and legible condition.

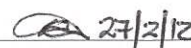
L13 All chemicals and fuels, associated with the sewage treatment works, including any spillage thereof must be contained within an on-site containment system (such as an impervious bund).

L14 Plants (including grasses) growing in the approved irrigation area are to be regularly cut and the cut material must be removed and disposed of to an area other than on the irrigated area.

L15 Wet Weather Storage

A minimum wet weather storage capacity of 45,500 litres must be available.

L16 When conditions prevent the irrigation of recycled water to land (such as during or following rain events), the recycled water must be directed to wet weather storage or alternative measures must be taken to store or lawfully dispose of the recycled water.

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Agency Interest: Social

S1 Complaint Response

Record the following details for all complaints received and provide this information to the administering authority on request:

- a) Time, date, name and contact details of the complainant; and
- b) Reasons for the complaint; and
- c) Any investigations undertaken; and
- d) Conclusions formed; and
- e) Any actions taken.

Definitions

Words and phrases used throughout this permit¹ are defined below. Where a definition for a term used in this permit¹ is sought and the term is not defined within this permit¹ the definitions provided in the relevant legislation shall be used.

Activity means – an environmentally relevant activity, or associated auxiliary activity to which this development approval relates.

Administering authority means – for a matter, the administration and enforcement of which has been devolved to a local government under section 514 of the *Environmental Protection Act 1994* – the local government; or for all other matters – the Chief Executive of the Department of Environment and Resource Management; or another State Government Department, Authority, Storage Operator, Board or Trust, whose role is to administer provisions under another enacted legislation.

Authorised place means – the lot and plans authorised under this development approval for the carrying out of the specified environmentally relevant activities.

Bund means – an earth mound or similar structure (e.g. a concrete block wall), constructed to contain spilled material (eg: petrol, diesel, oil etc.); or a structure to prevent or reduce soil erosion.

Business day – means any day that is not considered a public holiday or weekend

Contaminant means – (Section 11 of the EP Act) a gas, liquid or solid; or an odour; or an organism (whether alive or dead), including a virus; or energy, including noise, heat, radioactivity and electromagnetic radiation; or a combination of contaminants.

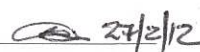
Day/daily means – the twenty four hour period between midnight to midnight.

Deposit means – drop, place or throw a contaminant in waters or onto a place or release the contaminant or otherwise cause it to move into waters or onto a place.

Development approval means – development approval as defined under the Planning Act.

Dwelling means – any of the following structures or vehicles that is principally used as a residence –

- a house, unit, motel, nursing home or other building or part of a building;

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- a caravan, mobile home or other vehicle or structure on land;
- a water craft in a marina.

Effluent means – Treated or untreated liquid waste flowing from agricultural and industrial processes, or treated wastewater discharged from sewage treatment plants.

Environmental nuisance means – (Section 15 of the EP Act) unreasonable interference or likely interference with an environmental value caused by:

- a) noise, dust, odour, light; or
- b) an unhealthy, offensive or unsightly condition because of contamination; or
- c) another way prescribed by regulation (e.g. unreasonable noise or dust emissions).

ERA means – Environmentally Relevant Activity

Irrigation means – the watering of crops, pasture, golf courses, parks, gardens and open spaces, which may involve using different applications (e.g. drip, trickle, spray and flood)

mg/L means – milligrams per litre.

Noxious means – harmful or injurious to health or physical wellbeing.

Nuisance sensitive place means –

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 library, childcare centre, kindergarten, school, college, university or other educational institution; or
- d) a hospital, surgery or other medical institution; or
- e) a park or garden that is open to the public (whether or not on payment of money) for use other than for sport or organised entertainment); or
- f) a protected area; or
- g) a place used as an office, business or commercial purposes;

and includes a place within the curtilage of such a place reasonably used by persons at that place.

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

Person –includes a body of persons, whether incorporated or unincorporated employed and/or operating on site under this development approval.

Prescribed water contaminant – as per Schedule 9 of the *Environmental Protection Regulation 2008*.

Recycled water means – Appropriately treated effluent and urban stormwater suitable for further use.

Registration certificate means – a certificate given under section 73F of the EP Act to the principal holder of an ERA.

Registered operator means – The holder of a registration certificate, for a chapter 4 activity, issued under section 73F and in force.

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Release of a contaminant, includes –

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

Regulated waste - see section 65 of *Environmental Protection Regulation 2008*

Site means - land on or in which it is proposed to carry out the development approved under this development approval.

Third Party Auditor – means a suitably qualified person in the field of environmental auditing that is to be engaged by the registered operator and agreed with the administering authority, for the purposes set out in the conditions to which this approval relates.

Water includes –

water in a watercourse, lake or spring;
underground water;
overland flow water; or
water that has been collected in a dam.

END OF CONDITIONS