

Permit

Environmental Protection Act 1994

Environmental authority EPPR00946213

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

Environmental authority number: EPPR00946213

Environmental authority takes effect on 27 September 2019

Environmental authority holder(s)

Name(s)	Registered address
POSTAN1 PTY LTD	51 Amelia St FORTITUDE VALLEY QLD 4006 Australia

Environmentally relevant activity and location details

Environmentally relevant activity/activities	Location(s)
Prescribed ERA, ERA 63 - Sewage Treatment, 1: Operating sewage treatment works, other than no-release works, with a total daily peak design capacity of, (a-i) 21 to 100EP if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme	Lot 1/SP155174
Prescribed ERA, ERA 63 - Sewage Treatment, 1: Operating sewage treatment works, other than no-release works, with a total daily peak design capacity of, (a-i) 21 to 100EP if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme	Lot 32/FS74
Prescribed ERA, ERA 63 - Sewage Treatment, 1: Operating sewage treatment works, other than no-release works, with a total daily peak design capacity of, (a-i) 21 to 100EP if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme	Lot 601/H9541

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.

Environmental authority

An EA authorises the carrying out of an ERA and does not authorise any environmental harm unless a condition stated by the EA specifically authorises environmental harm.

A person carrying out an ERA must also be a registered suitable operator under the Environmental Protection Act 1994 (EP Act).

Contaminated land

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

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

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

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

Take effect

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

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

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

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

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

Dorota Rosiak
Department of Environment and Science
Delegate of the administering authority
Environmental Protection Act 1994

Enquiries:
Extraction, Energy and Chemical Industries
Assessment
Department of Environment and Science
Phone: 1300 130 372
Email: palm@des.qld.gov.au

Date issued: 30 September 2019



Environmental authority

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)

Environmental authority – EPPR00946213

Obligations under the *Environmental Protection Act 1994*

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- 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.

Development Approval

This permit is not a development approval under the *Planning Act 2016*. The conditions of this environmental authority are separate, and in addition to, any conditions that may be on the development approval. If a copy of this environmental authority is attached to a development approval, it is for information only, and may not be current. Please contact the Department of Environment and Science to ensure that you have the most current version of the environmental authority relating to this site.

Environmental authority – EPPR00946213

Conditions of environmental authority

Environmentally relevant activity	Location
ERA 63 - Sewage Treatment 1: Operating sewage treatment works, other than no-release works, with a total daily peak design capacity of (a-i) 21 to 100EP if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme	Cnr Happy Valley Drive and Yidney Drive, Happy Valley, Fraser Island Part of Lot 1/SP155174, and Lot 601/H9541.

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

Agency interest: Activity	
Condition number	Condition
A1	Prevent and/or minimise likelihood of environmental harm In carrying out the environmentally relevant activities, you must take all reasonable and practicable measures to prevent and / or to minimise the likelihood of environmental harm being caused. Any environmentally relevant activity, that, if carried out incompetently, or negligently, may cause environmental harm, in a manner that could have been prevented, shall be carried out in a proper manner in accordance with the conditions of this approval.
A2	Maintenance of Plant and Equipment The holder of this environmental authority must: (i) install all plant and equipment necessary to ensure compliance with the conditions of this environmental authority; and (ii) maintain such plant and equipment in a proper and efficient condition; and (iii) operate such plant and equipment in a proper and efficient manner. In this condition, "plant and equipment" includes: a. plant and equipment used to prevent and/or minimise the likelihood of environmental harm being caused; b. devices and structures to contain foreseeable escapes of contaminants and waste; c. vehicles used to transport waste; d. devices and structures used to store, handle, treat and dispose of waste; e. monitoring equipment and associated alarms; and f. back-up systems that act in the event of failure of the primary system.
A3	Display of Environmental Authority A copy of this environmental authority must be kept in a location readily accessible to personnel carrying out the activity.

Environmental authority – EPPR00946213

A4	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 environmental authority. An example of a substantial increase in the risk of environmental harm is an increase of 10% or more in the quantity of the contaminant to be released into the environment.
A5	Calibration All instruments and devices used for the measurement or monitoring of any parameter under any condition of this environmental authority must be calibrated, and appropriately operated and maintained.
A6	Site based management plan From commencement of the activity, 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 impact of these sources and what actions will be taken to prevent the likelihood of environmental harm being caused. The SBMP must also provide for the review and 'continual improvement' in the overall environmental performance of all Environmentally Relevant Activities that are carried out. The site based management plan must address the following matters: (i) Environmental commitments - a commitment by senior management to achieve environmental goals. (ii) Identification of environmental issues and potential impacts. (iii) Control measures for routine operations to minimise likelihood of environmental harm. (iv) Contingency plans and emergency procedures for non-routine situations. (v) Organisational structure and responsibility. (vi) Effective communication. (vii) Monitoring of the contaminant releases. (viii) Conducting environmental impact assessments. (ix) Staff training. (x) Record keeping. (xi) Periodic review of environmental performance and continual improvement.
A7	A copy of the Site Based Management Plan and any subsequent amendment of the Site Based Management Plan must be kept at the place to which this environmental authority relates and be available for examination by an authorised person on request.
A8	Records Record, compile and keep all monitoring results required by this document and present this information to the administering authority when requested, in a specified format.
A9	Responsible Contact Person

Environmental authority – EPPR00946213

	The holder of this environmental authority shall ensure that a person is designated with responsibility for: (i) monitoring and recording the operation and performance of the sewage treatment plant and effluent disposal areas in accordance with the conditions of this environmental authority; (ii) reporting to the Administering Authority in the event of circumstances indicating that conditions of this environmental authority may be contravened; and (iii) reporting to the service agent of the sewage treatment plant in the event of equipment malfunction which may cause conditions of this environmental authority to be contravened.
A10	The holder of this environmental authority shall provide contact details of the person designated in condition A9 of this environmental authority to the Administering Authority: (i) within one month of the effective date of this environmental authority; and (ii) if a new designated contact person is appointed. Note: Contact details should include full name, residential address and telephone number.
A11	A current Operators Manual relating to the operation of the waste water treatment plant system is to be provided on site .
A12	The operator(s) of the system is to have undergone training in the operation of the waste water treatment plant acceptable to the administering authority relating to the operation of the waste water treatment plant system.
A13	An independent annual operational and performance audit is to be undertaken for the waste water treatment plant and disposal system and is to be carried out and submitted to the administering authority with the annual return that follows the first twelve (12) months operation of the plant.
Agency interest: Air	
Condition number	Condition
B1	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 odour sensitive place .
Agency interest: Water	
Condition number	Condition
C1	Release of Contaminants to Waters Contaminants that will or may cause environmental harm must not be directly or indirectly released from the place to which this environmental authority relates to any waters or the bed and banks of any waters except, to a sewer as permitted or otherwise agreed from time to time by the relevant Local Government.
C2	Pumps

Environmental authority – EPPR00946213

	Pumps whose failure would or would be likely to result in a direct or indirect release of contaminants to waters must be fitted with stand-by pumps and pump-failure alarms. Pumps and pump failure alarms must be able to operate without mains if such power failure occurs and, when in operation, must be detectable to those responsible for remedial action.									
C3	Maintenance and Clean-up Any spillage of wastes, contaminants or other materials must be cleaned up as quickly as practicable. Such spillages must not be cleaned up by hosing, sweeping or otherwise releasing such wastes, contaminants or material to any stormwater drainage system, roadside gutter or waters .									
C4	Groundwater Monitoring Program The holder of this environmental authority must develop and implement a groundwater monitoring program (GMP) to assess the impacts of land disposal of effluent to demonstrate contaminates are not released to ground water. The GMP shall include, but not be limited to the following; (i) the proposed monitoring bore locations, including control locations and reasons for their selection; (ii) the proposed sampling depths; (iii) description of water quality objectives to be achieved; (iv) the frequency of sampling and analysis; (v) a ground water monitoring system that includes a sufficient number of wells installed at locations and depths that yield representative groundwater samples from the uppermost aquifer and that establish: (a) background groundwater quality in hydraulically up-gradient or background well(s) that have not been affected by any potential leakage of contaminants to groundwater from the place to which this environmental authority relates; and (b) quality of groundwater down-gradient of any potential leakage of contaminants to groundwater for the place to which this environmental authority relates.									
C5	Groundwater monitoring bores for sampling groundwater required by condition C4 must be positioned and commissioned after gaining appropriate approvals from, and after consultation with the Department of Natural Resources, Mines and Energy.									
C6	The Groundwater Monitoring Program required by condition C4 must provide for the holder of this environmental authority to make determinations and keep records of the quality of at least the following contaminants for the quality characteristics and at the frequency specified in <i>Agency interest: Water - Table 1</i> . Agency interest: Water - Table 1 - Monitoring Frequencies for Groundwater <table><tr><th>Quality Characteristic</th><th>Units</th><th>Frequency</th></tr><tr><td>Total Nitrogen</td><td>mg/L</td><td>Quarterly</td></tr><tr><td>Ammonia Nitrogen</td><td>mg/L</td><td>Quarterly</td></tr></table>	Quality Characteristic	Units	Frequency	Total Nitrogen	mg/L	Quarterly	Ammonia Nitrogen	mg/L	Quarterly
Quality Characteristic	Units	Frequency								
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Environmental authority – EPPR00946213

	<table><tr><td>Nitrate Nitrogen</td><td>mg/L</td><td>Quarterly</td></tr><tr><td>Nitrite Nitrogen</td><td>mg/L</td><td>Quarterly</td></tr><tr><td>Total Phosphorus</td><td>mg/L</td><td>Quarterly</td></tr><tr><td>pH</td><td>pH scale</td><td>Quarterly</td></tr><tr><td>Thermotolerant Coliforms</td><td>cfu/100mL</td><td>Quarterly</td></tr></table>	Nitrate Nitrogen	mg/L	Quarterly	Nitrite Nitrogen	mg/L	Quarterly	Total Phosphorus	mg/L	Quarterly	pH	pH scale	Quarterly	Thermotolerant Coliforms	cfu/100mL	Quarterly		
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C7	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.																	
Agency interest: Noise and vibration																		
Condition number	Condition																	
D1	Noise nuisance Noise from activities must not cause an environmental nuisance at any noise sensitive place or any commercial place .																	
D2	In the event of a complaint about noise that constitutes annoyance being made to the administering authority, that the administering authority considers is not frivolous or vexatious, then the emission of noise from each of the licensed places must not result in levels greater than those specified in <i>Agency interest: Noise and vibration - Table 1</i>. Agency interest: Noise and vibration - Table 1 <table><tr><td>Time period</td><td>Noise level at a 'Noise sensitive place' measured as the Adjusted Maximum Sound Pressure Level $L_{Amax,adj,T}$ ^{Note 1}</td></tr><tr><td>7am - 6pm</td><td>Background noise level plus 5 dB(A)</td></tr><tr><td>6pm - 10pm</td><td>Background noise level plus 5 dB(A)</td></tr><tr><td>10pm - 7am</td><td>Background noise level plus 3 dB(A)</td></tr><tr><td>Time period</td><td>Noise level at a 'Commercial place' measured as the Adjusted Maximum Sound Pressure Level $L_{Amax,adj,T}$</td></tr><tr><td>7am - 6pm</td><td>Background noise level plus 10 dB(A)</td></tr><tr><td>6pm - 10pm</td><td>Background noise level plus 10 dB(A)</td></tr><tr><td>10pm - 7am</td><td>Background noise level plus 8 dB(A)</td></tr></table> Note 1: $L_{A10,adj,15\ mins}$ levels may be substituted for $L_{Amax,adj,15mins}$ levels if evidence is provided that $L_{A10,adj,15mins}$ levels are representative of component noise levels from source(s)/premises under investigation.		Time period	Noise level at a 'Noise sensitive place' measured as the Adjusted Maximum Sound Pressure Level $L_{Amax,adj,T}$ ^{Note 1}	7am - 6pm	Background noise level plus 5 dB(A)	6pm - 10pm	Background noise level plus 5 dB(A)	10pm - 7am	Background noise level plus 3 dB(A)	Time period	Noise level at a 'Commercial place' measured as the Adjusted Maximum Sound Pressure Level $L_{Amax,adj,T}$	7am - 6pm	Background noise level plus 10 dB(A)	6pm - 10pm	Background noise level plus 10 dB(A)	10pm - 7am	Background noise level plus 8 dB(A)
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D3	Noise monitoring When requested by the Administering Authority , noise monitoring must be undertaken to investigate any complaint of noise nuisance, and the results notified within 14 days to the administering authority . Monitoring must include: (i) $L_{Amax\ adj,\ T}$ (ii) background noise level (iii) the level and frequency of occurrence of impulsive or tonal noise; (iv) atmospheric conditions including wind speed and direction;																	

Environmental authority – EPPR00946213

	(v) effects due to extraneous factors such as traffic noise; and (vi) location, date and time of recording.			
D4	The method of measurement and reporting of noise levels must comply with the latest edition of the administering authority's Noise Measurement Manual.			
Agency interest: Waste				
Condition number	Condition			
E1	Off Site Movement Where regulated waste is removed from the place to which this environmental authority relates (other than by a release as permitted under another condition of this environmental authority), the holder of this environmental authority must monitor and keep records of the following: (i) the date, quantity and type of waste removed; and (ii) name of the waste transporter and/or disposal operator that removed the waste; and (iii) the intended treatment/disposal destination of the waste. (NOTE: Records of documents maintained in compliance with a waste tracking system established under the <i>Environmental Protection Act 1994</i> or any other law for regulated waste will be deemed to satisfy this condition.)			
E2	Notification of Improper Disposal of Regulated Waste If the holder of this environmental authority becomes aware that a person has removed regulated waste from the place to which this environmental authority relates and disposed of the regulated waste in a manner which is not authorised by this environmental authority or improper or unlawful, then the holder of this environmental authority must, as soon as practicable, notify the administering authority of all relevant facts, matters and circumstances known concerning the disposal.			
Agency interest: Land				
Condition				
F1	Land Disposal Treated sewage effluent must not be used for any other purpose at the place to which this approval relates other than for disposal to land by sub-surface irrigation and in accordance with the conditions of this environmental authority.			
F2	The quality of treated sewage effluent must comply, at the sampling and in-situ measurement points specified in Agency interest: Land, with each of the release limits specified in <i>Agency interest: Land - Table 1</i> for each quality characteristic. Agency interest: Land - Table 1 - Release Quality Characteristic Limits for Treated Sewage Effluent <table><tr><td>Quality Characteristics</td><td>Release Limit to Irrigation</td><td>Limit Type</td></tr></table>	Quality Characteristics	Release Limit to Irrigation	Limit Type
Quality Characteristics	Release Limit to Irrigation	Limit Type		

Environmental authority – EPPR00946213

	5-day Biochemical Oxygen Demand (inhibited) (mg/L)	20	Maximum
	Suspended Solids (mg/L)	30	Maximum
	Turbidity (NTU)	2	Maximum
	pH	6.5-8.5	Range
	Free chlorine residual (mg/L)	0.3-1.0	Range
	Thermotolerant Coliforms (colony forming units/100mL)	10 ⁽¹⁾	Median
⁽¹⁾ a minimum of 5 samples taken at not less than half-hourly intervals in any one day with four out of five samples containing less than 40 organisms per 100mL			
F3	Contaminant Release Location A sub-surface and/or drip irrigation area of at least 1178 m ² must be provided and maintained for the disposal of treated sewage effluent.		
F4	All grass/vegetation clippings must be removed from the contaminant release areas upon harvesting.		
F5	Quantity of Contaminants Released to Land The total quantity of contaminants released to land from the sewage treatment plant must not exceed an average of 15 kL per day (calculated by a moving average over any 28 day period) and must not exceed a maximum of 22 kL per day.		
F6	The daily quantity of contaminants released to the sub-surface irrigation area must be determined or estimated by an appropriate method, for example, a flow meter.		
F7	The holder of this environmental authority must keep records of the quantity of treated sewage effluent distributed to each irrigation area.		
F8	Contaminant Release Precautions The contaminant release areas must be maintained in a proper and efficient condition so as to provide adequate assimilation, percolation, evaporation and transpiration of the released contaminants.		
F9	There must be no ponding of effluent on the surface of the land in any irrigation area.		
F10	The holder of this environmental authority must take all reasonable measures to provide for the uniform distribution of contaminants over the disposal area through the sub-surface irrigation system. Reasonable measures would include, but not be limited to, following the sub-surface irrigation manufacturers, or their authorised agents, recommendations with regard to: (i) using adequate sized irrigation supply mains to ensure adequate flow and pressure to all distribution lines; (ii) the spacing between the distribution pipes to ensure that the treated effluent is distributed uniformly over the contaminant release area; and (iii) maintenance and monitoring procedures to ensure that the system continues to operate effectively.		

Environmental authority – EPPR00946213

F11	The effluent distribution system and the contaminant disposal area must be maintained in a proper and efficient condition so as to provide adequate assimilation, percolation, evaporation and transpiration of the released contaminants.																											
F12	Irrigation System Requirements Pipelines and fittings used for treated sewage effluent irrigation must be clearly identified. Standard household water taps, hoses, cocks, and garden fittings must not be fitted to treated sewage effluent irrigation pipelines, and the irrigation system must not be connected to other service pipelines.																											
F13	Above-ground and buried facilities [pipelines, etc.] in areas of public access are to be distinctively colour-coded (deep purple, wrapped).																											
F14	Notices warning persons not to use or drink or have contact with the treated sewage effluent must be prominently displayed and must be maintained in a clearly visible and legible condition. The signs must: (i) be displayed at places where persons can gain access to or have contact with the treated sewage effluent, for example, at taps, cocks, valves and contaminant release area(s); and (ii) be distinctively colour coded and marked with the words: WARNING: RECLAIMED WATER - DO NOT DRINK and are to include an appropriate warning symbol as well as text; and (i) be in English, and, where necessary, in another appropriate language(s).																											
F15	Lockable valves or removable handles must be fitted to treated sewage effluent pipelines where there is public access to the pipelines and any part of the treated sewage effluent distribution system.																											
F16	Monitoring of Contaminant Releases from the Sewage Treatment Plant The holder of this environmental authority is responsible for the making of determinations and keeping of records of the quality of the contaminants released from the sewage treatment plant for the quality characteristics and at the frequency specified in <i>Agency interest: Land - Table 2</i> . Agency interest: Land - Table 2 - Monitoring Frequencies for Treated Sewage Effluent Used for Sub-Surface Irrigation <table><tr><th>Quality Characteristic</th><th>Units</th><th>Frequency</th></tr><tr><td>5-day Biochemical Oxygen Demand (inhibited)</td><td>mg/L</td><td>Quarterly</td></tr><tr><td>Suspended Solids</td><td>mg/L</td><td>Quarterly</td></tr><tr><td>Turbidity</td><td>NTU</td><td>Continuous</td></tr><tr><td>pH</td><td>pH scale</td><td>Quarterly</td></tr><tr><td>Free chlorine residual</td><td>mg/L</td><td>Weekly</td></tr><tr><td>Thermotolerant Coliforms</td><td>cfu/100mL</td><td>Quarterly*</td></tr><tr><td>Total Nitrogen</td><td>mg/L</td><td>Quarterly</td></tr><tr><td>Total Phosphorous</td><td>mg/L</td><td>Quarterly</td></tr></table> * using a minimum of 5 samples taken at not less than half-hourly intervals in any one day.	Quality Characteristic	Units	Frequency	5-day Biochemical Oxygen Demand (inhibited)	mg/L	Quarterly	Suspended Solids	mg/L	Quarterly	Turbidity	NTU	Continuous	pH	pH scale	Quarterly	Free chlorine residual	mg/L	Weekly	Thermotolerant Coliforms	cfu/100mL	Quarterly*	Total Nitrogen	mg/L	Quarterly	Total Phosphorous	mg/L	Quarterly
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Total Phosphorous	mg/L	Quarterly																										

Environmental authority – EPPR00946213

F17	Determinations of the quality of contaminants released to check conformity with the release quality characteristics limits specified in the <i>Agency interest: Land - Table 1</i> must be undertaken at the sampling and in-situ measurement point(s) described as: (i) the outlet of the treated effluent storage tank.
F18	All determinations of the quality of contaminants released must be: (i) made in accordance with methods prescribed in the latest edition of the Environment Protection Agency Water Quality Sampling Manual; and (ii) (carried out on samples that are representative of the discharge.
F19	Storage of fuels and chemicals Spillage of all chemicals and fuels must be contained within an on- site containment system and controlled in a manner that prevents environmental harm. NOTE: All petroleum product storage's must be designed, constructed and maintained in accordance with AS 1940 - Storage and Handling of Flammable and Combustible Liquids.
Agency interest: Community	
Condition	
G1	Complaint response All complaints received must be recorded including investigations undertaken, conclusions formed and action taken. This information must be made available to the administering authority on request.

Environmental authority – EPPR00946213

Definitions

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.

Administering authority means the Environment and Science or its successor.

You means the holder of this environmental authority or owner / occupier of the **land** which is the subject of this environmental authority.

Site means the place to which this environmental authority relates or the premises to which this environmental authority relates.

Dust sensitive place means:

- a **dwelling**, mobile home or caravan park, residential marina or other residential place;
- a motel, hotel or hostel;
- a kindergarten, school, university or other educational institution;
- a medical centre or hospital;
- a **protected area**;
- a park or gardens; or
- a place used as an office or for business or commercial purposes.

and includes the curtilage of any such place.

Odour sensitive place has the same meaning as a **dust sensitive place**.

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

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

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

$L_{Amax,adj,T}$ means the average maximum A-weighted sound pressure level, adjusted for noise character and measured over any 10 minute period, using Fast response.

Background noise level means either:

$L_{A90,T}$ being the A-weighted sound pressure level exceeded for 90 percent of the time period not less than 15 minutes, using Fast response, or

$L_{A_{bg},T}$ being the A-weighted sound pressure level obtained using Fast response and arithmetically averaging the lowest levels of the ambient sound pressure level during a representative time period of not less than 15 minutes.

$L_{A10,adj,10\text{ mins}}$ means the A-weighted sound pressure level, (adjusted for tonal character and impulsiveness of the sound) exceeded for 10% of any 10 minute measurement period, using Fast response.

Environmental authority – EPPR00946213

Noise affected premises means a "noise sensitive place" or a "commercial place"

Noise sensitive place means -

- a dwelling, 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**; or
- a park or gardens.

and includes the curtilage of such place.

Commercial place means a place used as an office or for business or commercial purposes.

Intrusive noise means noise that, because of its frequency, duration, level, tonal characteristics, impulsiveness or vibration:

- is clearly audible to, or can be felt by, an individual; and
- annoys the individual.

In determining whether a noise annoys an individual and is unreasonably intrusive, regard must be given to Australian Standard 1055.2 - 1997 Acoustics - Description and Measurement of Environmental Noise Part 2 - Application to Specific Situations.

Protected area means:

- a protected area under the Nature Conservation Act 1992; or
- a marine park under the Marine Parks Act 2004; or
- a World Heritage Area.

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.

Land in the "Agency interest: land" of this document means land excluding **waters** and the atmosphere.

mg/L means milligrams per litre.

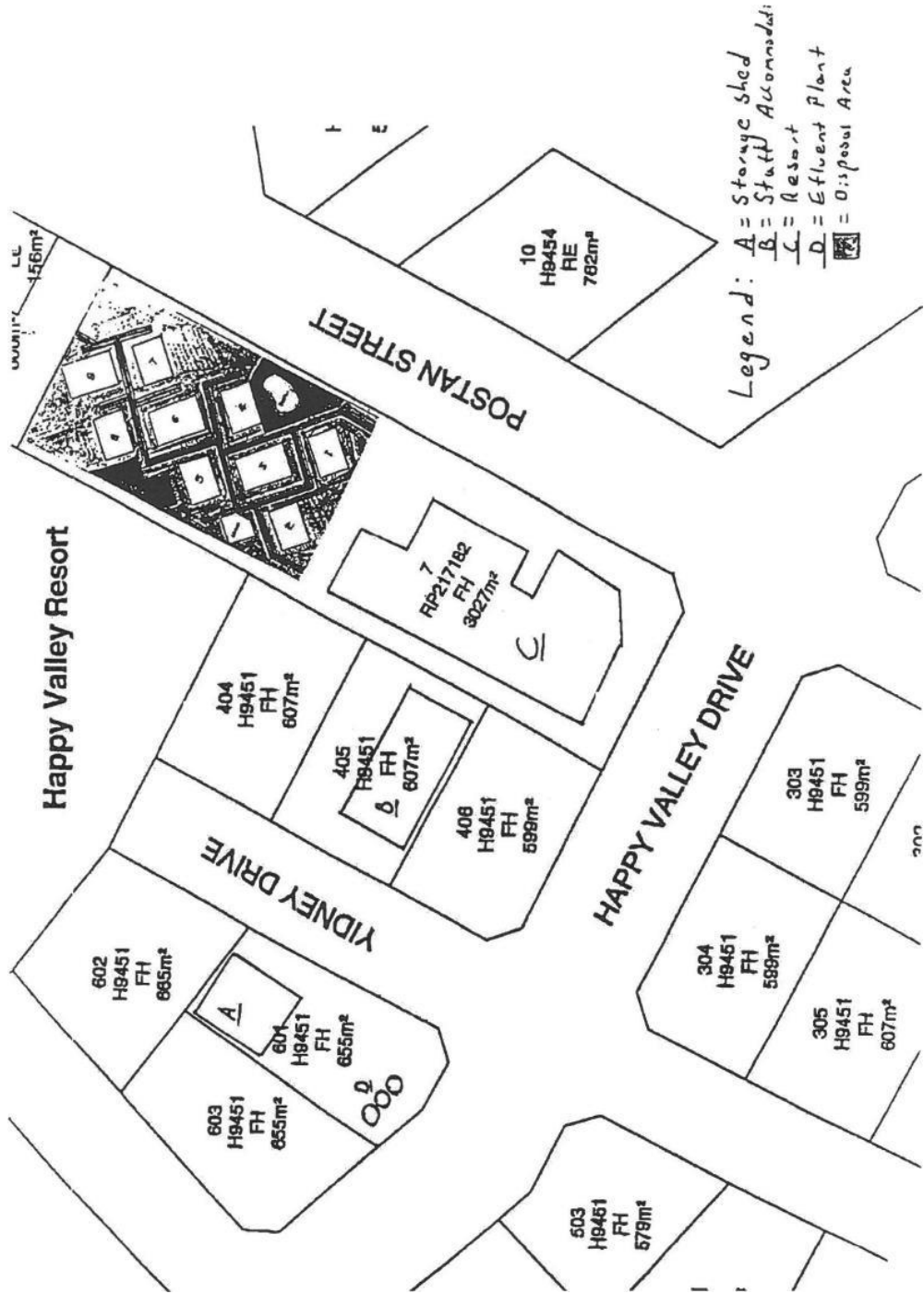
NTU means nephelometric turbidity units

Regulated waste means non-domestic waste mentioned in Schedule 9 of the Environmental Protection Regulation 2019.

Annual return means the return required by the annual notice (under section 316IA of the *Environment Protection Act, 1994*).

Appendix 1: Maps/Plans

Figure 1 Site plan showing sewage treatment plant ("effluent plant") and effluent irrigation area ("disposal area") in relation to other infrastructure on site. (Not to scale)



END OF PERMIT

