Permit

Environmental Protection Act 1994

Environmental authority EPPR00412213

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

Environmental authority number: EPPR00412213

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

The anniversary date of this environmental authority is 12 May each year.

An annual return will be due each year on 01 April.

Environmental authority holder

Name	Registered address
IVORY'S ROCK FOUNDATION	310 Mt Flinders Rd PEAK CROSSING QLD 4306

Environmentally relevant activity and location details

Environmentally relevant activity	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 1500 but not more than 4000EP	Mount Flinders Road, PEAK CROSSING QLD 4306 Lot 1/RP201746 & Lot 2/RP61267 & Lot 2/SP276782

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).

Mobile and temporary activities

If you operate a mobile and temporary environmentally relevant activity (ERA), other than regulated waste transport, you are required to maintain a work diary. You must:

- use the approved form for a work diary (ESR/2015/1696);
- keep the work diary records for 2 years after the last entry;
- inform the administering authority within 7 days of the work diary being lost or stolen;
- record the information required in the work diary for each location within 1 day of leaving the location.

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 12 May each year. The payment of the annual fee will be due each year on this day. An annual return will be due each year on 01 April.

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.

	**24 July 2026**
Signature	Date

Eugene Immisch
Department of the Environment, Tourism, Science and Innovation
Delegate of the administering authority
Environmental Protection Act 1994

Enquiries:
Utilities and Government Organisations Assessment
GPO Box 2454, BRISBANE QLD 4001
Phone: 1300 130 372
Email: palm@detsi.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 Natural Resources and Mines, Manufacturing and Regional and Rural Development (to clear vegetation), and the Department of Primary Industries (to clear marine plants or to obtain a quarry material allocation).

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 the Environment, Tourism, Science and Innovation to ensure that you have the most current version of the environmental authority relating to this site.

Conditions of environmental authority

Environmental relevant activity	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 1500 but not more than 4000EP.	Mount Flinders Road, PEAK CROSSING QLD 4306 Lot 1/RP201746 & Lot 2/RP61267 & Lot 2/SP276782

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

Agency interest: General	
Condition Number	**Condition**
G1.0	**Maintenance of Plant and Equipment** The holder of this environmental authority must: a) install all plant and equipment necessary to ensure compliance with the conditions of this environmental authority; and b) maintain such plant and equipment in a proper and efficient condition; and c) operate such plant and equipment in a proper and efficient manner. In the environmental authority, 'plant and equipment' includes: i. plant and equipment used to prevent and/or minimise the likelihood of environmental harm being caused; and ii. devices and structures to contain foreseeable escapes or contaminants and waste; and iii. vehicles used to transport waste; and iv. devices and structures used to store, handle, treat and dispose of waste; and v. monitoring equipment and associated alarm; and vi. backup systems that act in the event of failure of the primary system.
G2.0	A copy of this environmental authority must be kept in a location readily accessible to personnel carrying out the activity.
G3.0	All persons engaged in the conduct of the activity, including but not limited to employees and contract staff, must be: a) trained in the procedures and practices necessary to: i. comply with the conditions of this environmental authority; and ii. prevent environmental harm during normal operation and emergencies; or b) under the close supervision of such a trained person.
G4.0	Any record or document required to be kept by a condition of this environmental authority must be kept at the premises to which this environmental authority relates for a period of at least five (5) years and be available for examination by an authorised person. The record retention requires of this environmental authority condition will be satisfied if any daily and weekly records are kept for a period of at least three (3) years and these records are then kept in the form of annual summaries after that period.
G5.0	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 ten percent (10%) or more in the quantity of the contaminant to be released in the environment.
G6.0	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.
G7.0	**Site-Based Management Plan** The holder of this environmental authority, must develop and implement an effective and appropriate Site-based Management Plan which details how the holder of this environmental authority will manage the actual and potential environmental impacts resulting from the carrying out of the environmentally relevant activity.
G7.1	The Site-Based Management Plan must address at least the following matters: a) routine operating procedures to prevent or minimise environmental harm, however occasioned or caused during normal operations; and b) maintenance practices and procedures; and c) contingency plans and emergency procedures to deal with foreseeable risks and hazards including corrective responses to prevent and mitigate environmental harm (including any necessary site rehabilitation); and d) monitoring of the release of contaminants into the environment including procedures, methods, record keeping and notification of results; and e) assessment of the environmental impact of any releases of contaminants into the environment including procedures, methods, record keeping and notification of results; and f) handling of environmental complaints; and g) keeping and production of environmental records and reports; and h) lines and methods of communication to be utilised for communication of procedures, plans, incidents, potential environmental problems and results, including a feedback mechanism to ensure that management is made aware of potential environmental problems and any failure of procedures adopted; and i) staff training and awareness of environmental issues related to the operation of the environmentally relevant activities, including responsibilities under the *Environmental Protection Act 1994*.
G7.2	A copy of the Site-Based Management Plan and any subsequent amendment of the Site-Based Management Plan must be kept at the premises to which this environmental authority relates and be available for examination by an authorised person on request.
G8.0	**Complaint Recording** All complaints received by the holder of this environmental authority relating to releases of contaminants from operations at the premises to which this environmental authority relate must be recorded in a log and kept with the following details: a) time, date and nature of complaint; and b) type of communication (telephone, letter, personal etc.); and c) name, contact address and contact telephone number of complainant (Note: if the complainant does not wish to be identified then "Not identified" is to be recorded); and d) response and investigation undertaken as a result of the complaint; and e) name of person responsible for investigating complaint; and f) action taken as a result of the complaint investigation and signature of responsible.

G8.1	The complaints record required by condition G8.0 must be maintained for a period of not less than five (5) years.
G9.0	**Incident Recording** A record must be maintained of events including but not limited to: a) the time, date and duration of equipment malfunctions, that may affect the environmental performance of the premises to which this environmental authority relates; and b) any shutdowns of equipment upon which the environmental performance of the premises to which this environmental authority relates depends.
G10.0	**Notification of Emergencies and Incidents** Where the holder of this environmental authority has not given notification to the administering authority under section 320 of the *Environmental Protection Act 1994,* as soon as practicable after 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 environmental authority, the holder of this environmental authority must notify the administering authority of the release by telephone, facsimile or email.
G10.1	Where the holder of this environmental authority has not given notification to the administering authority under section 320 of the *Environmental Protection Act 1994*, the notification of emergencies or incidents as required by condition G10.0 must include but not be limited to the following: a) the holder of the environmental authority; and b) the location of the emergency or incident; and c) the number of the environmental authority; and d) the name and telephone number of the designated contact person; and e) the time of the release; and f) the time the holder of the environmental authority became aware of the release; and g) the suspected cause of the release; and h) the environmental harm caused, threatened, or suspected to be caused by the release; and i) actions taken to prevent further any release and mitigate any environmental harm caused by the release.
G10.2	Where the holder of this environmental authority has not given notification to the administering authority under section 320 of the *Environmental Protection Act 1994*, not more than fourteen (14) days following the initial notification of an emergency or incident, the holder of the environmental authority must provide written advice of the information supplied in accordance with condition G10.1 in addition to: a) proposed actions to prevent a recurrence of the emergency or incident; and b) outcomes of actions taken at the time to prevent or minimise environmental harm; and c) the results of any environmental monitoring performed.
G11.0	**Exception Reporting** The holder of this environmental authority must notify the administering authority in writing within twenty-eight (28) days of completion of analysis of any result of a monitoring program required by a condition of this environmental authority which indicates an exceedance of any limit specified in this environmental authority.
G11.1	The written notification required by condition G11.0 must include: a) the full analysis results, and b) details of investigation or corrective actions taken, and

	c) any subsequent analysis.
G12.0	**Monitor Reporting** The holder of this environmental authority must ensure that the results of all monitoring performed in accordance with this environmental authority for the period covered by the annual return are submitted with the annual return.
G12.1	Contaminant release quality pertaining to the yearly period, compiled, collected or recorded in accordance with conditions L3.0 and L9.0 shall be presented: a) in a tabular format, showing: i. date, times, and day of week sampled; and ii. all raw data; and iii. any exceedance of levels of all parameters specified in *Table 2 – Contaminant limits for releases to land*; and iv. maximum and minimum values for parameters specified in *Table 2 – Contaminant limits for releases to land*; and b) graphically showing data referred to in part (i) of this condition vs time.
Agency interest: Air	
Condition number	**Condition**
A1.0	Notwithstanding any other condition of this environmental authority, no release of contaminants from the premises to which this environmental authority relates is to cause a noxious or offensive odour beyond the boundaries of the premises to which this environmental authority relates.
Agency interest: Water	
Condition number	**Condition**
WT1.0	**Release of Contaminants to Waters** Contaminants must not be directly or indirectly released from the premises to which this environmental authority relates to any waters or the bed and banks of any waters except: a) as permitted under a condition of this environmental authority; or b) to a sewer as permitted or otherwise agreed from time to time by the relevant Local Government.
WT2.0	**Stormwater Management** Except as otherwise provided by the conditions of the stormwater management schedule and the water schedule of this environmental authority, the environmentally relevant activity must be carried out by such practicable means necessary to prevent and/or minimise the release or likelihood of release of contaminated runoff from the premises to which this environmental authority relates to any stormwater drain or waters or the bed or banks of any such waters. "Contaminated runoff' for the purposes of this condition means stormwater and/or stormwater runoff that contains contaminants that may cause environmental harm.
WT3.0	**Maintenance and Cleanup** 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.
WT3.1	The maintenance and clean-up of vehicles and other equipment or plant must be carried out in areas from where contaminants cannot be released into any waters, roadside gutter or stormwater drainage system.

WT4.0	**Pond Conditions** All ponds used for the storage or treatment of contaminants or wastes must be installed and maintained to prevent any discharge through the bed or banks of the pond from causing environmental harm in any waters (including groundwaters).
WT4.1	All ponds used for the storage or treatment of contaminants or wastes must be constructed and maintained to ensure the stability of the ponds' construction.
WT4.2	Ponds or other structures used for the storage or treatment of contaminants or wastes, including any associated pumps and control equipment, must not be located in any area below the one in ten-year flood level.
WT4.3	Suitable banks and/or diversion drains must be installed and maintained to exclude stormwater runoff from any ponds or other structures used for the storage or treatment of contaminants or wastes.
Agency interest: Noise	
Condition number	**Condition**
N1.0	**Emission of Noise** In the event of a complaint about noise that constitutes intrusive noise being made to the administering authority, that the administering authority considers is not frivolous or vexatious, then the emission of noise from the premises to which this environmental authority relates must not result in levels greater than those specified in *Table 1– Noise Limits*.

Table 1 – Noise Limits

NOISE LIMITS AT A NOISE SENSITIVE PLACE	
Period	**Noise Level at a Noise Sensitive Place Measured at the adjusted Maximum Sound Pressure Level $L_{Amax\ adj,\ T}$**
7 am – 6 pm	Background noise level plus 5 dB(A)
6 pm – 10pm	Background noise level plus 5 dB(A)
10pm – 7 am	Background noise level plus 3 dB(A)
NOISE LIMITS AT A COMERCIAL PLACE	
	Noise Level at a Commercial Place Measured at the adjusted Maximum Sound Pressure Level $L_{Amax\ adj,\ T}$
7 am – 6 pm	Background noise level plus 10 dB(A)
6 pm – 10pm	Background noise level plus 10 dB(A)
10pm – 7 am	Background noise level plus 8 dB(A)

N2.0	**Noise Monitoring** For the purposes of investigating any complaint made of unreasonable intrusive noise and also of checking compliance with condition N1.0, monitoring and recording of the noise levels from the activity/activities must be undertaken for the following descriptions, characteristics and conditions: a) $L_{Amax,\ adj.\ T}$; and b) $L_{Abg,\ T}$ (or $L_{A90,\ T}$); and c) $L_{AN,\ T}$ (where N equals statistical levels of 1, 10, 50, 90 and 99); AND d) Max $L_{Pa\ T}$; and

	e) $L_{Aeq, T}$; and f) the level and frequency of occurrence of impulsive or tonal noise; and g) atmospheric conditions including temperature, relative humidity and wind speed and direction; and h) effects due to extraneous factors such as traffic noise.
N2.1	Noise monitoring must also be undertaken to investigate any complaint of unreasonable intrusive noise upon receipt of a written request from the administering authority to carry out such monitoring.
N2.2	The method of measurement and reporting of noise levels must comply with the administering authorities current version of the Noise Measurement Manual.
N2.3	The measurement and reporting of noise levels must be undertaken by a person or body possessing appropriate experience and qualifications to perform the required measurements.
N2.4	In conjunction with the measurement and recording of the noise, the location, the date and time of the recording must be included in the record.
N2.5	Records must be kept of the results of all monitoring of noise levels and other information required to be recorded in conjunction with such monitoring for a period of at least five (5) years.
Agency interest: Land	
Condition number	**Condition**
L1.0	The only contaminants to be released to land is treated sewage effluent from the wet weather storage dam.
L2.0	Treated effluent generated by the activity must only be released to the Effluent Disposal Areas (Zone A, Zone B, Zone C, and Zone D) shown in Appendix 1 – *Effluent Disposal Areas.*
L3.0	Treated effluent generated by the activity must only be released to the Effluent Disposal Area when the following requirements are complied with: a) the release limits for each quality characteristic are complied with at the monitoring locations as specified in *Table 2 – Contaminant limits for releases to land*; and b) releases are monitored at all monitoring locations and at the minimum monitoring frequency for each quality characteristic specified in *Table 2 – Contaminant limits for releases to land.*

Table 2 - Contaminant limits for releases to land

Monitoring location	Quality characteristic (units)	Release limits			Minimum monitoring frequency
		Minimum	80th percentile	Maximum	
Outlet of the sewage treatment plant prior to discharge to the wet weather storage dam	Irrigation volume (L/day)	-	-	100,000	Daily
	Irrigation rate (mm/day)	-	-	3	Daily
	Total Nitrogen TN (mg/L as N)	-	15	20	Monthly
	Total Phosphorus TP (mg/L as P)	-	-	15	Monthly
	pH (pH units)	6.5	-	8.5	Monthly

		Electrical Conductivity (EC) (µS/cm)	-	-	1,600	Monthly
		Escherichia coli (E.coli) cfu/100mL)	10 organisms per 100 mL as a median value (minimum of 5 samples taken at not less than half-hourly intervals in any one day, with 4 out of the 5 samples containing less than 40 organisms per 100 mL).			Monthly
		Irrigation rate	Mean of 1.2mm/day			Daily
L3.1	Notwithstanding the quality characteristic limits specified in *Table 2 – Contaminant limits for releases to land*, the contaminants must not have any properties nor contain any organisms or contaminants in concentrations which are capable of causing environmental harm.					
L3.2	The irrigation rate monitoring required by condition L3.0 must be calculated using the area of 8.2 ha and the total volume of treated effluent released to the Effluent Disposal Areas in the day.					
L3.3	The mean calculations required by condition L3.0 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 2 – Contaminant limits for releases to land*.					
L4.0	**Quantity of the Contaminants released from the Sewage Treatment Plant** A flow meter must be installed in such a manner as to monitor the daily discharge of effluent from the wet weather storage to the Effluent Disposal Areas.					
L4.1	A flow meter must be installed in such a manner as to monitor the hydraulic flow of effluent from the sewage treatment plant.					
L5.0	The Effluent Disposal Areas must have a minimum surface area of 8.2 ha.					
L6.0	**Wet Weather Storage** When weather conditions or soil conditions preclude the release of contaminants, the contaminants must be directed to a wet weather storage dam.					
L6.1	The wet weather storage dam must be designed to hold a volume of at least four (4) megalitres.					
L6.2	After wet weather all reasonable and practicable measures must be taken (if required) to dispose of effluent to reduce the volume in the wet weather storage dam to less than 75% of the total volume of the storage.					
L6.3	Whenever the level in the wet weather storage dam exceeds ninety-five percent (95%) capacity, the holder of this environmental authority must take action as soon as reasonably practicable to reduce the stored level to less than ninety-five percent (95%) capacity by removal of stored effluent via a licensed contractor for off-site disposal to a licensed sewage treatment plant.					
L7.0	**Contaminant Release Precautions** The release of contaminants to land must not be carried out if soil moisture conditions are such that surface runoff or ponding is likely to occur.					
L7.1	The Effluent Disposal Areas must be maintained in a proper and efficient condition so as to provide adequate assimilation, percolation, evaporation and transpiration of the released contaminants.					
L7.2	Spray from any release of contaminants to land must not drift beyond the boundaries of the premises to which this environmental authority relates.					

L7.3	Public access to any Effluent Disposal Areas must be denied during the release of contaminants to land and for twenty-four (24) hours following the release or until the release area has dried.
L7.4	Notices warning the public not to use or drink the release of contaminants to land must be prominently displayed and must be maintained in a visible and legible condition.
L7.5	Pipelines and fittings for the release of contaminants to land must be clearly identified. Standard water taps, hoses and cocks must not be fitted to contaminant release pipelines, and the contaminant release system must not be connected to other service pipelines. Lockable valves or removable handles must be fitted to the contaminant release pipelines where there is public access to the Effluent Disposal Areas.
L8.0	**Effluent Irrigation Management Plan** The holder of this environmental authority must develop and implement an Irrigation Management Plan which details how the holder of this environmental authority will effectively and appropriately manage the effluent irrigation process so as to ensure that the release of effluent to land is carried out in an environmentally sustainable manner.
L8.1	The Irrigation Management Plan must detail how irrigation is to be managed and scheduled having regard to at least the following: a) soil moisture results; and b) weather forecasts and climate monitoring results; and c) irrigation records for each Effluent Disposal Area; and d) characteristics and quantity of contaminants which are applied, including total nitrogen, total phosphorus, electrical conductivity, and pH; and e) characteristics of the soil in the Effluent Disposal Areas, including pH, salinity, total dissolved salts, total nitrogen, total phosphorus, total potassium, sodium, calcium, magnesium, calculated Sodium Adsorption Ratio, exchangeable cations; and f) type of vegetation intended to be grown in the Effluent Disposal Areas; and g) cropping practice for each Effluent Disposal Area; and h) management practices for the irrigation dam to prevent algal blooms; and i) sustainable hydraulic loadings for the Effluent Disposal Area; and j) sustainable nitrogen loadings for the Effluent Disposal Areas; and k) sustainable phosphorous loadings for the Effluent Disposal Areas; and l) sustainable salt loadings for the Effluent Disposal Areas; and m) production of appropriate records and reporting of results and environmental issues.
L8.2	A copy of the Irrigation Management Plan must be kept at the premises to which this environmental authority relates.
L8.3	The holder of this environmental authority must submit details of any amendment to the Irrigation Management Plan to the administering authority with the annual return which immediately follows the enactment of any such amendment.
L9.0	**Monitoring of Contaminants Released to Land from the Wet Weather Storage Dam** 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 wet weather storage dam for the quality characteristics, and the frequency specified in *Table 3 – Monitoring of contaminants from the Wet Weather Storage Dam*.

Table 3 – Monitoring of contaminants from the Wet Weather Storage Dam

Quality Characteristics	Units	Monitoring Frequency
pH	pH scale	Six monthly
Escherichia coli (E.coli)	cfu/100ml	Six monthly
Total Nitrogen (TN)	mg/L	Six monthly
Total Phosphorous (TP)	mg/L	Six monthly
Sodium Adsorption ratio	calculated	Six monthly
Dissolved Solids	mg/L	Six monthly
Total Dissolved Salts (calculated)	mg/L	Six monthly
Electrical Conductivity (EC)	µS/cm	Six monthly
Exchangeable Cations	mg/L	Six monthly
Potassium	mg/L	Six monthly
Total Calcium	mg/L	Six monthly
Total Chloride	mg/L	Six monthly
Total Magnesium	mg/L	Six monthly
Total Sodium	mg/L	Six monthly
Total Sulphate	mg/L	Six monthly

L9.1	Determinations of the quality of contaminants released with the release quality characteristics specified in *Table 3 – Monitoring of contaminants from the Wet Weather Storage Dam* of this environmental authority must be undertaken at the sampling and in-situ measurement point described as at the outlet of the irrigation pump.
L9.2	All determinations of the quality of contaminants released to land must be made in accordance with methods prescribed in the administering authorities current version of the Monitor and Sampling Manual.
L9.3	All determinations of the quality of contaminants released must be performed by a person or body possessing appropriate experience and qualifications to perform the required measurements.

L10.0

Contaminant Release Area Monitoring Program

The holder of this environmental authority must develop and implement a Contaminant Release Area Monitoring Program to effectively monitor the condition of the land to which contaminants are released.

L10.1

Monitoring required by Condition L10.0 shall include the taking of topsoil and sub-soil samples from each of the four (4) Effluent Disposal Areas for the quality characteristics and at the frequency specified in *Table 4 – Contaminant Release Area Monitoring*.

Table 4 – Contaminant Release Area Monitoring

Quality Characteristics	Units	Monitoring Frequency
pH, 1:5 extract water	pH units	Annually
Electrical Conductivity (EC), 1:5 extract water	µS/cm	Annually
Total Nitrogen (TN)	mg/kg	Annually
Total Kjeldahl Nitrogen (TKN)	mg/kg	Annually
Nitrite + Nitrate (NOx)	mg/kg	Annually
Total Phosphorous (TP)	mg/kg	Annually
Colwell Phosphorus	mg/kg	Annually
Cation Exchange Capacity (CEC)	meq/100g	Annually
Exchangeable Calcium	meq/100g	Annually
Exchangeable Magnesium	meq/100g	Annually
Exchangeable Sodium	meq/100g	Annually
Exchangeable Potassium	meq/100g	Annually
Potassium	mg/kg	Annually
Calcium	mg/kg	Annually
Chloride, 1:5 extract water	mg/kg	Annually
Magnesium	mg/kg	Annually
Sodium	mg/kg	Annually

	Sulphate	mg/kg	Annually
	Boron	mg/kg	Annually
	Total Carbon	%	Annually

	The Contaminant Release Area Monitoring Program must include but not be limited to the following: a) the locations of monitoring stations including soil types and depths; b) the proposed vegetation characteristics to be monitored; and c) harvesting practice to ensure the proper maintenance of the irrigation area.
	The holder of this environmental authority must submit with the annual return a report on the Contaminant Release Area Monitoring Program including an assessment of the impact and sustainability of the application of treated sewage effluents to the Effluent Disposal Areas and whether the release is being carried out in an environmentally sustainable manner. This report shall include an interpretation of the results and conclusions by an expert in the field of effluent land disposal.
Agency interest: Waste	
Condition number	**Condition**
W1.0	The holder of this environmental authority must not: a) allow waste to burn or be burnt at or on the premises to which this environmental authority relates; nor b) remove waste from the premises to which this environmental authority relates and burn such waste elsewhere other than an appropriate licensed waste disposal facility that can lawfully burn such waste.
W2.0	All transport of regulated waste generated in carrying out the environmentally relevant activity must be transported by a proper and appropriate licensed waste transporter that can lawfully transport such waste.
W3.0	All disposal of regulated waste generated in carrying out the environmentally relevant activity must be to a proper and appropriate licensed waste disposal facility that can lawfully accept such waste or to a facility that can lawfully and appropriately reuse and/or recycle such waste, except as specifically provided for under the conditions of this environmental authority.
W4.0	Where regulated waste is removed from the premises to which this environmental authority relates (other than by a release as permitted under condition of this environmental authority), the holder of this environmental authority must monitor and keep records of the following: a) the date, quantity and type of waste removed; and b) the name of the waste transporter and/or disposal operator that removed the waste; and c) the intended treatment/disposal destination of the waste. (NOTE: Records of documents maintained in compliance with a waste tracking system established under the *Environmental Protection Act 1994* or any other law for regulated waste will be deemed to satisfy this condition).
W5.0	If the holder of this environmental authority becomes aware that a person has removed regulated waste from the premises to which this environmental authority relates and disposed of the regulated waste in a manner which is not authorised by this environmental authority or is

	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.

Definitions

Where a word or phrase in this document is defined in this definitions section or within the document, it has its corresponding meaning. Where a word or phrase in this document is not defined in this definitions section, it has the meaning given to it (in order of priority):

- the *Environmental Protection Act 1994* (EP Act), its regulations or its environmental protection policies;
- the *Acts Interpretation Act 1954*;
- the Macquarie Dictionary (taking account of the context in which the word or phrase is used in this document).

For example, environmental value, environmental harm, environmental nuisance, material environmental harm, serious environmental harm and relevant act are defined in the EP Act and groundwater is defined in the *Environmental Protection Regulation 2019*. Defined words or phrases in the singular include the plural and vice versa.

Act means the *Environmental Protection Act 1994.*

administering authority means the Department of Environment, Tourism, Science, and Innovation or its successor.

authorised person means an authorised person as defined under the *Environmental Protection Act 1994.*

land means land excluding waters and the atmosphere.

holder means the holder of this environmental authority.

mg/L means milligrams per litre.

cfu means colony forming units.

80th percentile compliance means that not more than three (3) of the measured values of the quality characteristic are to exceed the stated release limit for any twelve (12) consecutive samples where:

a) the consecutive samples are taken over a one-year period; and

b) the consecutive samples are taken at approximately equal periods; and

c) the time interval between the taking of each consecutive sample is not less than twenty-five days.

50th percentile compliance means that the median value of the measured values in ranked order of the quality characteristic is not to exceed the stated release limit for any twelve (12) consecutive samples where:

a) the consecutive samples are taken over a one-year period; and

b) the consecutive samples are taken at approximately equal periods; and

c) the time interval between the taking of each consecutive sample is not less than twenty-five days.

median means the middle value, where half the data are smaller, and half the data are larger. If the number of samples is even, the median is the arithmetic average of the two (2) middle values.

maximum means that the measured value of the quality characteristic or contaminant must not be greater than the release limit stated.

minimum means that the measured value of the quality characteristic or contaminant must not be less than the release limit stated.

Sodium adsorption ratio (SAR) means the relative concentration of sodium (Na) to calcium (Ca) and magnesium (Mg) in the soil solution.

$L_{Amax\ adj,\ T}$ means the average maximum A-weighted sound pressure level, adjusted for noise character and measured over a time period of not less than 15 minutes, using Fast response.

Background noise level means $L_{A90,\ T}$ being the A-weighted sound pressure level exceeded for 90 percent of the time period of not less than 15 minutes, using fast response.

Max $L_{Pa\,T}$ means the maximum A-weighted sound pressure level measured over a time period of not less than 15 minutes, using Fast response.

Total Nitrogen means the sum of Organic Nitrogen, Ammonia, Nitrite plus Nitrate, as mg/L of Nitrogen.

Total Phosphorus 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.

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

Noise sensitive place means –

a) a dwelling, 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 education institution; or

d) a medical centre or hospital; or

e) a protected area; or

f) a park or gardens.

intrusive noise means noise that, because of its frequency, duration, level, tonal characteristics, impulsiveness or vibration –

a) is clearly audible to, or can be felt by, an individual; and

b) annoys the individual.

In determining whether a noise annoys an individual, regard must be had to Australian Standard 1055.2 – 1997 Acoustics - Description and Measurement of Environmental Noise Part 2 Application to Specific Situations or supplements to that document as such become available.

Regulated waste as defined in section 42 of the *Environmental Protection Regulation 2019.*

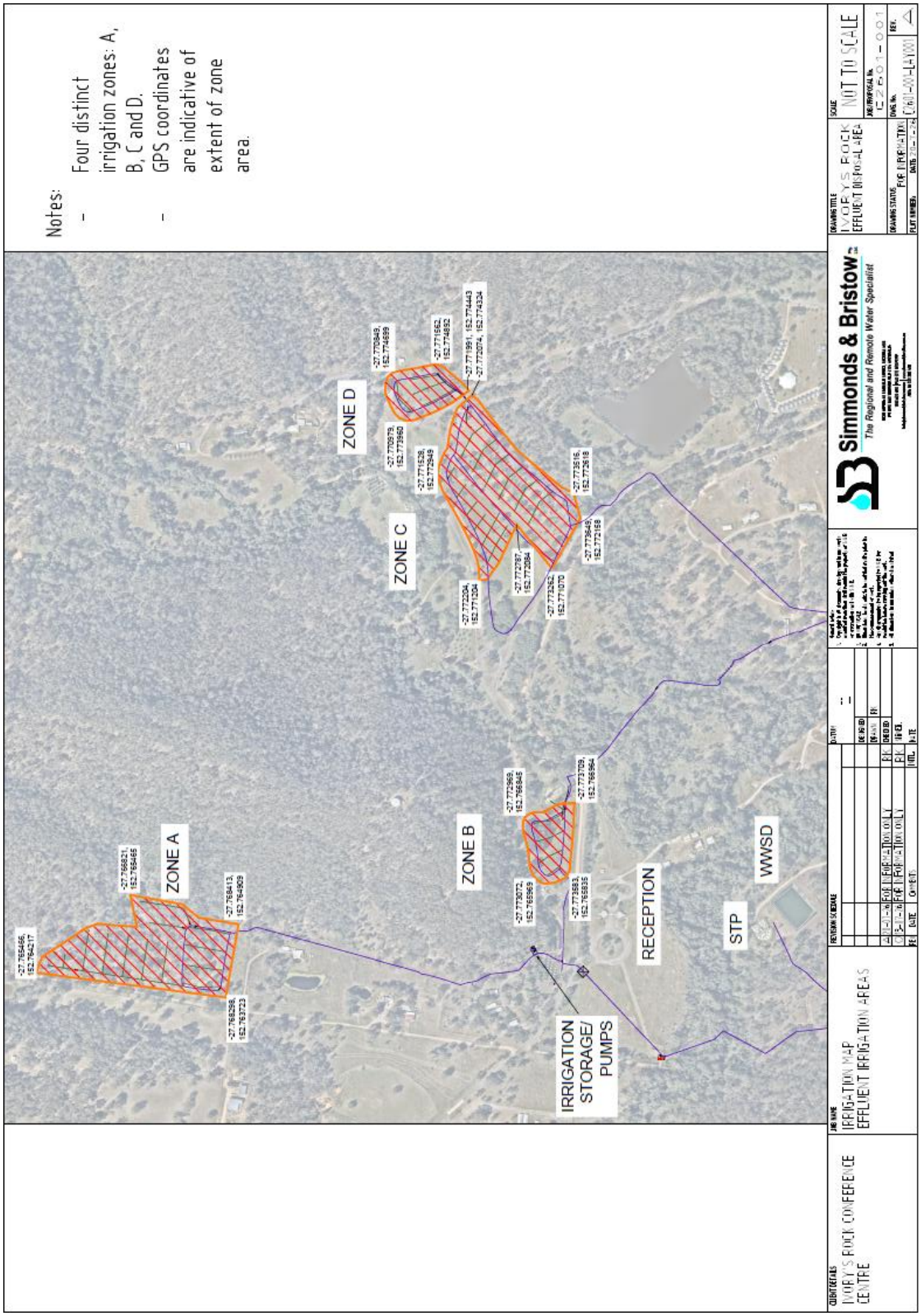
Noxious means harmful or injurious to health or physical well-being.

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

Environmentally sustainable manner means a manner in which the likelihood of environmental harm being caused is minimised. The term includes ensuring that the capacity of the irrigation area to assimilate the release of contaminants on an ongoing basis is maintained and that adverse effects to environmental values of waters, ecological health and public amenity and safety are not likely

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

Appendix 1 – Effluent Disposal Areas



END OF ENVIRONMENTAL AUTHORITY