

Permit

Environmental Protection Act 1994

Environmental authority EA0002214

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

Environmental authority number: EA0002214

Environmental authority takes effect on 24 May 2024 .

The anniversary date of this environmental authority is 16 April each year.

Environmental authority holder(s)

Name(s)	Registered address
ARROW CSG (AUSTRALIA) PTY LTD	Level 39 111 Eagle Street BRISBANE CITY QLD 4000

Environmentally relevant activity and location details

Environmentally relevant activity/activities	Location(s)
Non-Scheduled - Petroleum Activity - Petroleum Pipeline Licence (PPL)	PPL2048

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 the same day each year as the effective date. 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.



Signature

24 May 2024

Date

Helena Braye
Department of Environment and Science
Delegate of the administering authority
Environmental Protection Act 1994

Enquiries:

Energy and Extractive Resources
GPO Box 2454, BRISBANE QLD 4001

Phone: (07) 3330 5715

Email: EnergyandExtractive@des.qld.gov.au

Obligations under the *Environmental Protection Act 1994*

In addition to the requirements found in the conditions of this environmental authority, the holder must also meet their obligations under the EP Act, and the regulations made under the EP Act. For example, the holder must comply with the following provisions of the Act:

- general environmental duty (section 319)
- duty to notify environmental harm (section 320-320G)
- offence of causing serious or material environmental harm (sections 437-439)
- offence of causing environmental nuisance (section 440)
- offence of depositing prescribed water contaminants in waters and related matters (section 440ZG)
- offence to place contaminant where environmental harm or nuisance may be caused (section 443)

Other permits required

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

Conditions of environmental authority

Standard conditions

This environmental authority contains standard conditions. Standard conditions are identified by (S) after the condition number.

Eligibility criteria

	Eligibility criteria
PPEC 1	The applicant for the environmental authority is the holder of, or an applicant for a Pipeline Licence (PPL) tenure type issued under the <i>Petroleum and Gas (Production and Safety) Act 2004</i> .
PPEC 2	The petroleum activities are authorised petroleum activities for the purposes of the <i>Petroleum and Gas (Production and Safety) Act 2004</i> .
PPEC 3	The petroleum activity does not include extending an existing pipeline by more than 150 kilometres under a petroleum authority.
PPEC 4	The petroleum activity does not include constructing a new pipeline of more than 150 kilometres under a petroleum authority.
PPEC 5	The petroleum activities do not occur in <u>coastal waters</u> of Queensland.
PPEC 6	The petroleum activity is not, or will not be, carried out under an environmental authority under which any of the following is, or is to be, authorised: (a) the injection of a waste fluid or gas for gas storage into a natural underground reservoir or <u>aquifer</u> (b) a <u>regulated dam</u> (c) the carrying out of the following <u>environmentally relevant activities</u> (ERAs): i. ERA 8 – Chemical Storage ii. ERA 60(1a) – (1d) – Regulated waste disposal iii. ERA 60(2d) – (2h) – General waste disposal > 10,000t/<u>year</u> iv. ERA 63(1a)(ii) – (1b)(ii), (1c) – (1g) – Sewage treatment with a total <u>daily peak design capacity</u> of greater than 21 <u>equivalent persons</u> (EP) which <u>releases</u> to other than an infiltration trench or irrigation scheme or where the sewage treatment activities have a total combined daily peak design capacity exceeding 1500 equivalent persons (EP) v. ERA 64(2a) and (2b) and (4a) and (4b) – Water treatment where desalination of more than 0.5ML of water is treated, allowing the release of waste to <u>waters</u> other than seawater; or carrying out, in a day, advanced treatment of 5ML or more of water, allowing the release of waste only to seawater; or to waters other than seawater.

Conditions of environmental authority

Condition number	Condition																	
Schedule A – Authorised activities																		
PPSCA 1 (S)	All reasonable steps must be taken to ensure the petroleum activities comply with the <u>eligibility criteria</u> for the activity.																	
Variation 1	The environmental authority authorises the carrying out of petroleum activities listed in <i>Table 1 – Authorised petroleum activities</i> to the extent they are carried out in accordance with the activity’s corresponding scale and location. Table 1 – Authorised petroleum activities <table><tr><th>Authorised petroleum activity</th><th>Size details</th><th>Maximum disturbance (ha)</th><th>Location</th></tr><tr><td>McNulty Pipeline</td><td>12.8 km long, 25 meters wide</td><td>33.5</td><td rowspan="4">PPL2048 and in accordance with spatial data spatial data EA0002214 <i>Proposed Disturbance PY 13022024</i>, dated 13 March 2024.</td></tr><tr><td>Workspaces</td><td>N/A</td><td>1.0</td></tr><tr><td>One Inlet Processing Facility (IPF)</td><td>N/A</td><td>3.0</td></tr><tr><td>Access tracks</td><td>N/A</td><td>0.5</td></tr></table>	Authorised petroleum activity	Size details	Maximum disturbance (ha)	Location	McNulty Pipeline	12.8 km long, 25 meters wide	33.5	PPL2048 and in accordance with spatial data spatial data EA0002214 <i>Proposed Disturbance PY 13022024</i> , dated 13 March 2024.	Workspaces	N/A	1.0	One Inlet Processing Facility (IPF)	N/A	3.0	Access tracks	N/A	0.5
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PPSCA 2 (S)	The following types of petroleum activities are not authorised: a) processing or storing petroleum or petroleum by-products that are not necessarily associated with pipeline construction or operation b) extracting earthen materials (other than drilling waste rock or <u>trench spoil</u>) of more than 100,000t/year c) extracting by dredging more than 1000t/year of material from the <u>bed</u> of naturally occurring surface waters d) construction of power lines (either above or below ground) outside the <u>right of way</u> necessary for the pipeline. Explanatory Note: <i>Standard Condition PPSCA 2(d) does not authorise additional significant disturbance to land. The construction of power lines must be within the pipeline’s right of way.</i>																	
Variation 2	The only impacts permitted within Category A ESAs, Category B ESAs or Category C ESAs, or primary protection zones and secondary protection zones are impacts to: Category B ESAs and Category C ESAs, as well as primary protection zones and secondary protection zones, within the boundary of the McNulty Pipeline footprint as defined in the spatial data <i>EA0002214 Proposed Disturbance PY 13022024</i> dated 13 March 2024.																	

Variation 3	Spatial records must be kept for the life of the environmental authority that are sufficient to demonstrate compliance with the following conditions: a) Condition (Variation 2) relating to ESA and PPZ impacts within the pipeline footprint; b) Condition (Variation 7) relating to prescribed environmental matters impacts; and c) Condition (Variation 8) relating to record keeping of prescribed environmental matters impacts. For clarity, this includes mapped biodiversity values, confirmed on-the-ground biodiversity values (including key habitat features), location of the activity, environmentally sensitive areas and their protection zones, prescribed environmental matters and impacts to prescribed environmental matters.
Variation 4	For conditions (Variation 5) to (Variation 6), where mapped biodiversity values differ from those confirmed under condition (PPSCD 3), petroleum activities may proceed in accordance with the conditions of the environmental authority based on the confirmed on-the-ground biodiversity values.
Variation 5	The location of the petroleum activity(ies) must be selected in accordance with the following site planning principles: (a) maximise the use of areas of pre-existing disturbance; (b) in order of preference, avoid, minimise or mitigate any impacts, including cumulative impacts, on areas of native vegetation or other areas of ecological value; (c) minimise disturbance to land that may result in land degradation; (d) in order of preference, avoid then minimise isolation, fragmentation, edge effects or dissection of tracts of native vegetation; and (e) in order of preference, avoid then minimise clearing of native mature trees.
Variation 6	A report must be prepared for each annual return period for all petroleum activities that involved clearing of any environmentally sensitive area or protection zones which includes: (a) records able to demonstrate compliance with conditions (PPSCD 2) and (Variation 1) to (Variation 5) inclusive; (b) a description of the works; (c) a description of the area and its pre-disturbance values (which may include maps or photographs, but must include GPS coordinates for the works); and (d) based on the extent of environmentally sensitive areas and primary protection zones on the relevant resource authority(ies), the proportion of

	native vegetation cleared per environmentally sensitive area and primary protection zone, including regional ecosystem type, over the annual return period.																																																																																								
Variation 7	Prescribed Environmental Matters – Matters of State Environmental Significance Impacts to Prescribed Environmental Matters (PEMs) are only authorised for the total area and location of impact listed in Table 2 - Authorised impacts to Prescribed Environmental Matters. Table 2 – Authorised impacts to Prescribed Environmental Matters <table><tr><th>Prescribed environmental matters</th><th>Location of impact</th><th>Significant residual impact and Offset Required</th><th colspan="2">Total area of impact</th></tr><tr><td colspan="5">REGULATED VEGETATION</td></tr><tr><td colspan="5">Regional ecosystems (not within an urban area) within the defined distance from the defining banks of a relevant watercourse or relevant drainage feature</td></tr><tr><td>RE 11.3.25</td><td>PPL2048</td><td>Yes</td><td>0.1ha</td><td rowspan="3">0.6ha</td></tr><tr><td>RE 11.7.4</td><td>PPL2048</td><td>Yes</td><td>0.4ha</td></tr><tr><td>RE11.7.7</td><td>PPL2048</td><td>Yes</td><td>0.1ha</td></tr><tr><td colspan="5">PROTECTED WILDLIFE HABITAT</td></tr><tr><td colspan="5">A habitat for an animal that is endangered wildlife or vulnerable wildlife or a special least concern animal</td></tr><tr><td><i>Phascolarctos cinereus</i> (Koala)</td><td>PPL2048</td><td>Yes</td><td colspan="2">13.5</td></tr><tr><td><i>Petauroides volans</i> (Greater glider)</td><td>PPL2048</td><td>Yes</td><td colspan="2">8.5</td></tr><tr><td><i>Hemiaspis damelii</i> (Grey snake)</td><td>PPL2048</td><td>Yes</td><td colspan="2">0.2</td></tr><tr><td><i>Adclarkia dulacca</i> (Dulacca Woodland Snail)</td><td>PPL2048</td><td>Yes</td><td colspan="2">0.1</td></tr><tr><td><i>Petaurus australis</i> (Yellow-bellied Glider)</td><td>PPL2048</td><td>Yes</td><td colspan="2">8.5</td></tr><tr><td><i>Nyctophilus corbeni</i> (southeastern long-eared bat)</td><td>PPL2048</td><td>Yes</td><td colspan="2">8.5</td></tr><tr><td><i>Stagonopleura guttata</i> (Diamond Firetail)</td><td>PPL2048</td><td>Yes</td><td colspan="2">8.5</td></tr><tr><td><i>Calyptorhynchus lathamii</i> (Glossy black cockatoo)</td><td>PPL2048</td><td>Yes</td><td colspan="2">9.0</td></tr><tr><td><i>Grantiella picta</i> (painted Honeyeater)</td><td>PPL2048</td><td>Yes</td><td colspan="2">0.1</td></tr><tr><td><i>Acanthophis antarcticus</i> (Common death adder)</td><td>PPL2048</td><td>Yes</td><td colspan="2">8.5</td></tr></table>	Prescribed environmental matters	Location of impact	Significant residual impact and Offset Required	Total area of impact		REGULATED VEGETATION					Regional ecosystems (not within an urban area) within the defined distance from the defining banks of a relevant watercourse or relevant drainage feature					RE 11.3.25	PPL2048	Yes	0.1ha	0.6ha	RE 11.7.4	PPL2048	Yes	0.4ha	RE11.7.7	PPL2048	Yes	0.1ha	PROTECTED WILDLIFE HABITAT					A habitat for an animal that is endangered wildlife or vulnerable wildlife or a special least concern animal					<i>Phascolarctos cinereus</i> (Koala)	PPL2048	Yes	13.5		<i>Petauroides volans</i> (Greater glider)	PPL2048	Yes	8.5		<i>Hemiaspis damelii</i> (Grey snake)	PPL2048	Yes	0.2		<i>Adclarkia dulacca</i> (Dulacca Woodland Snail)	PPL2048	Yes	0.1		<i>Petaurus australis</i> (Yellow-bellied Glider)	PPL2048	Yes	8.5		<i>Nyctophilus corbeni</i> (southeastern long-eared bat)	PPL2048	Yes	8.5		<i>Stagonopleura guttata</i> (Diamond Firetail)	PPL2048	Yes	8.5		<i>Calyptorhynchus lathamii</i> (Glossy black cockatoo)	PPL2048	Yes	9.0		<i>Grantiella picta</i> (painted Honeyeater)	PPL2048	Yes	0.1		<i>Acanthophis antarcticus</i> (Common death adder)	PPL2048	Yes	8.5	
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	<i>Glyphodon (Furina) dunmalli</i> (Dunmall's Snake)	PPL2048	Yes	8.5
	<i>Adclarkia cameroni</i> (Brigalow Woodland Snail)	PPL2048	Yes	0.2
	<i>Yakka Skink (Egernia rugosa)</i>	PPL2048	No	8.4
	<i>Geophaps scripta scripta</i> (Squatter Pigeon)	PPL2048	No	0.08
	<i>Jalmenus eubulus</i> (Pale imperial hairstreak)	PPL2048	No	0.1
	<i>Falco hypoleucos</i> (Grey Falcon)	PPL2048	No	14
	<i>Ornithorhynchus anatinus</i> (platypus)	PPL2048	No	1.7
	<i>Tachyglossus aculeatus</i> (echidna)	PPL2048	No	33.5
	Waterway providing for fish passage			
	Fish passage (not in an urban area)	Columboola Creek and unnamed tributaries on PPL2048	No	0.08
Variation 8	Records demonstrating compliance with Variation 7 must be: (a) completed by a suitably qualified person; and (b) kept for the life of the environmental authority.			
Variation 9	An environmental offset made in accordance with the <i>Environmental Offsets Act 2014</i> and the Queensland Environmental Offsets Policy, as amended from time to time, must be undertaken for the maximum extent of impact to each prescribed environmental matter authorised in Table 2 – Authorised impacts to Prescribed Environmental Matter , unless the administering authority confirms that the impact to the prescribed environmental matter is as follows: (a) the same, or substantially the same, impact; and (b) the same, or substantially the same, prescribed environmental matter; and (c) has been assessed under a relevant Commonwealth Act.			
Variation 10	The notice of election for the environmental offset if applicable, must be provided to the administering authority no less than three months before the proposed commencement of the significant residual impacts for which the environmental offset is required, unless a lesser timeframe has been agreed to in writing by the administering authority.			
Variation 11	Impacts to grey falcon habitat authorised under Variation 7 do not include impacts to active and inactive grey falcon nests.			

Schedule B – Protecting environmental values	
PPSCB 2 (S)	Petroleum activities must not cause environmental nuisance from dust, odour, light, smoke or noise at a sensitive place, other than where an alternative arrangement is in place.
PPSCB 3 (S)	Contaminants must not be directly or indirectly released to land or air except for those releases authorised by standard conditions (PPSCC 9), (PPSCC 13), (PPSCC 14), (PPSCC 15), (PPSCC 16), (PPSCE 4), (PPSCE 8), (PPSCE 11), (PPSCE 12) and (PPSCF 3).
Variation 13	No impacts are permitted in a designated precinct of a Strategic Environmental Area.
PPSCB 5 (S)	Petroleum activities must: (a) firstly, avoid, then minimise, then mitigate any negative impacts on areas of vegetation or other areas of ecological value (b) minimise disturbance to land that may otherwise result in land degradation (c) minimise isolation, fragmentation or dissection of tracts of vegetation that would lead to a reduction in the current level of ecosystem functioning or ecological connectivity (d) minimise clearing of mature or hollow bearing trees. Explanatory Note: A written route selection report or CEMP or OEMP or decommissioning plan for the different stages of pipeline petroleum activities can be developed to demonstrate compliance with standard condition (PPSCB 5).
PPSCB 6 (S)	Where significant disturbance to land is to occur, records demonstrating compliance with standard condition (PPSCB 5) must be kept.
Schedule C – Operating standards	
Documentation	
PPSCC 1 (S)	All plans, procedures and reports must: (a) be <u>certified</u> by a <u>suitably qualified person</u> (b) be kept on record for a minimum of 5 years.
PPSCC 2 (S)	All plans and procedures required to be developed must be implemented.
Plant and equipment	
PPSCC 3 (S)	All plant and equipment reasonably necessary to ensure compliance with the standard conditions must be installed.
PPSCC 4 (S)	All plant and equipment must be maintained and operated in their proper and effective condition.
PPSCC 5 (S)	All measures reasonably necessary to ensure compliance with the standard conditions must be implemented.

Contingency and emergency response	
PPSCC 6 (S)	Petroleum activities involving significant disturbance to land or which have the potential to cause environmental harm can only commence after the development of written contingency procedures which address the risks of non-compliance with Schedule B standard conditions.
PPSCC 7 (S)	The contingency procedures must include, but not necessarily be limited to: (a) environmental nuisance and complaint management procedures including: i. a description of the petroleum activities that might result in non-compliance with Schedule B standard conditions and what mitigation measures are required to be implemented; and ii. the action that will be undertaken when a member of the public makes a valid complaint. (b) management procedures including details of what actions will be taken to protect environmental values and minimise potential environmental harm from petroleum activities as a result of floods, severe storms and fires (c) environmental emergency management procedures including details of the response and mitigation measures that will be actioned to reduce negative impacts to environmental values in the event of a non-compliance with Schedule B standard conditions. Explanatory note: The contingency procedures may incorporate other documents by reference and may include the emergency response procedures required under the Petroleum and Gas (Production and Safety) Act 2004.
Soil management	
PPSCC 8 (S)	Measures must be implemented and maintained to minimise stormwater entry onto significantly disturbed land.
PPSCC 9 (S)	Sediment and erosion control measures to prevent soil loss and deposition beyond significantly disturbed land must be implemented and maintained.
PPSCC 10 (S)	The measures required by standard conditions (PPSCC 8) and (PPSCC 9) must be in accordance, to the greatest practicable extent, with the International Erosion Control Association (IECA) <i>Best Practice Erosion and Sediment Control (BPESC)</i> document and/or the Australian Pipeline Industry Association (APIA) <i>Code of Environmental Practice: Onshore Pipelines</i> (2009).
Chemical storage	
PPSCC 11 (S)	Chemicals and fuels on the relevant tenures must be stored in, or serviced by, an effective containment system that meets Australian Standards, where such a standard is relevant.
Waste management	
PPSCC 12 (S)	Measures must be implemented so that waste is managed in accordance with the waste and resource management hierarchy and the waste and resource management principles.

PPSCC 13 (S)	For waste fluids that can be stored in a container that is other than a low hazard dam, the container must either be an above ground container or a structure which contains the wetting front.
PPSCC 14 (S)	Waste, including waste fluids, must be transported off-site for lawful re-use, remediation, recycling or disposal unless the waste is specifically authorised by standard conditions (PPSCC 15), (PPSCC 16), (PPSCE 8) and (PPSCF 3) to be disposed of or used on-site.
Variation 14	Produced water may be used for dust suppression provided the following criteria are met: (a) the amount applied does not exceed the amount required to effectively suppress the dust; and (b) the application: i. does not cause on-site ponding or run-off; ii. is directly applied to the area being dust suppressed; iii. does not harm vegetation surrounding the area being dust suppressed; and iv. does not cause visible salting.
Variation 15	Produced water may be used for construction purposes provided the use: (a) does not result in negative impacts on the composition of the structure of soil or subsoils; (b) is not directly or indirectly released to waters; (c) does not result in runoff from the construction site; and (d) does not harm vegetation surrounding the construction site.
Variation 16	If there is an indication that any of the circumstances in condition (Variation 14)(b)(i) to (Variation 14)(b)(iv) or (Variation 15)(a) to (Variation 15)(d) is occurring, the use must cease immediately and the affected area must be remediated without delay.
PPSCC 15 (S)	Green waste may be used on-site for rehabilitation and/or sediment and erosion control purposes.
Treated sewage effluent	
PPSCC 16 (S)	Treated sewage effluent or greywater can be released to land provided it: (a) meets or exceeds secondary treated class B standards for a treatment system with a daily peak design capacity of between 150 EP and 1500 EP; or (b) meets or exceeds secondary treated class C standards for a treatment system with a daily peak design capacity of less than 150 EP; and (c) is released within fenced and signed contaminant release area(s) and does not result in pooling or run-off or aerosols or spray drift or vegetation die-off.

Schedule D – Pipeline planning	
Site planning	
PPSCD 1 (S)	Pipeline planning must be in accordance, to the greatest practicable extent, with the relevant section of the <i>APIA Code of Environmental Practice: Onshore Pipelines</i> (2009) and/or AS 2885.1:2012.
Planning for disturbance	
PPSCD 2 (S)	Notwithstanding condition (PPSCD 1), pipeline construction corridors must: (a) be minimised in width to the greatest practicable extent (b) not exceed 40m in width (c) not include turn around and work areas associated with pipeline construction that exceed 50m in width (d) be preferentially located alongside existing linear infrastructure.
PPSCD 3 (S)	Prior to any significant disturbance to land: (a) an ecological assessment of areas with native vegetation that are to be significantly disturbed, must be conducted in accordance with the Queensland Government's <i>Biocondition, a Condition Assessment Framework for Terrestrial Biodiversity in Queensland, Assessment Manual</i>; and (b) an assessment of the impacts that will occur as a result of significant disturbance to land must be undertaken.
Schedule E – Construction conditions	
PPSCE 1 (S)	Pipeline construction must be in accordance, to the greatest practicable extent, with the relevant section of the <i>APIA Code of Environmental Practice: Onshore Pipelines</i> (2009) and/or AS 2885.1:2012.
Activities in watercourses, wetlands, lakes and springs	
PPSCE 2 (S)	Petroleum activities that require earthworks, vegetation clearing and/or placing fill, other than that associated with the construction of linear infrastructure, are not permitted in or within: (a) 200 metres of any wetland, lake or spring; or (b) 100 metres of the outer bank of any other watercourse.
PPSCE 3 (S)	The construction and/or maintenance for linear infrastructure that will result in significant disturbance to a wetland, lake, spring or watercourse must be conducted in accordance with the following order of preference. Conducting works: 1. firstly, in times where there is no water present 2. secondly, in times of no flow 3. thirdly, in times of flow, but in a way that does not impede low flow.

PPSCE 4 (S)	Petroleum activities must not result in water turbidity increases of more than 10% in high ecological value waters outside contained construction or maintenance areas.
PPSCE 5 (S)	The construction and/or maintenance for linear infrastructure that will result in significant disturbance to a lake, spring or watercourse must be designed and undertaken by a suitably qualified person in accordance with the guideline <i>Activities in a watercourse, lake or spring associated with a resource activity or mining operations</i> .
Variation 17	The construction and/or maintenance for linear infrastructure that will result in significant disturbance to a wetland must be designed and undertaken by a suitably qualified person, taking into consideration the <i>Riverine Protection Permit Exemption Requirements</i> published by the Department of Natural Resources, Mines and Energy as it is amended from time to time.
Fauna management	
PPSCE 7 (S)	Measures to prevent fauna entrapment must be implemented during the construction of pipelines in pipe sections and pipeline trenches and operation of dams.
Variation 18	Fauna must not be harmed from entrapment during the construction, operation and decommissioning of well infrastructure, dams, pipeline trenches and pipelines.
Variation 19	All vegetation clearing activities must be undertaken under the direction of a suitably qualified fauna spotter-catcher. A record must be kept detailing the name, location, condition and number of any protected wildlife encountered, other than those identified in Table 2 – Authorised impacts to Prescribed Environmental Matter .
Waste	
Variation 20	Unless venting is authorised under the <i>Petroleum and Gas (Production and Safety) Act 2004</i> or the <i>Petroleum Act 1923</i>, waste gas must be flared in a manner that ensures; (a) the flare is enclosed; or (b) compliance with condition (Variation 22) below.
Variation 21	If gas is flared and an enclosed flare is not utilised, then the holder of this environmental authority must ensure all of the following: a) that an automatic ignition system is used; b) that the flame is, or flames are, visible at all times when waste gas is being flared; and c) there are no visible smoke emissions other than for a total period of no more than five (5) minutes in any two (2) hours.
PPSCE 8 (S)	Trench water, hydrostatic testing water or water from low point drains, may be released to land provided that it: (a) can be demonstrated to meet the acceptable standards for release to land; and

	(b) is released in a way that does not cause visible scouring or erosion.						
PPSCE 9 (S)	If hydrostatic testing water quality does not or can not be treated to meet the requirements of standard condition (PPSCE 8), it must be managed in accordance with standard conditions (PPSCC 13) or (PPSCC 14).						
Blasting							
Variation 21	Blasting must not exceed the limits for peak particle velocity and air blast overpressure in Table 3 – <i>Blasting noise limits</i> when measured at any sensitive place or commercial place. Table 3 – Blasting noise limits <table border="1"> <thead> <tr> <th>Blasting criteria</th><th>Blasting limits</th></tr> </thead> <tbody> <tr> <td>Airblast overpressure</td><td>115 dB (Linear) Peak for 9 out of 10 consecutive blasts initiated and not greater than 120 dB (Linear) Peak at any time.</td></tr> <tr> <td>Ground vibration peak particle velocity</td><td>5 mm/s peak particle velocity for 9 out of 10 consecutive blasts and not greater than 10 mm/s peak particle velocity at any time.</td></tr> </tbody> </table>	Blasting criteria	Blasting limits	Airblast overpressure	115 dB (Linear) Peak for 9 out of 10 consecutive blasts initiated and not greater than 120 dB (Linear) Peak at any time.	Ground vibration peak particle velocity	5 mm/s peak particle velocity for 9 out of 10 consecutive blasts and not greater than 10 mm/s peak particle velocity at any time.
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Variation 22	Blasting must be carried out in accordance with the most current edition of the Queensland Government's ' <i>Noise and vibration from blasting guideline</i> ' (ESR/2016/2169) and with <i>Australian Standard 2187</i> .						
Variation 23	All monitoring of airblast overpressure and ground vibration peak particle velocity must be undertaken in accordance with the Queensland Government's ' <i>Noise and vibration from blasting guideline</i> ' (ESR/2016/2169).						
PPSCE 10 (S)	A Blast Management Plan must be developed for each blasting activity in accordance with Australian Standard 2187.						
Structures that are dams or levees							
PPSCE 13 (S)	The hazard category of any dam or levee to be used in carrying out petroleum activities must be assessed in accordance with the Queensland Government <i>Manual for Assessing Hazard Categories and Hydraulic Performance of Dams</i> .						
PPSCE 14 (S)	Low hazard dams must be: (a) constructed, operated and maintained in accordance with accepted engineering standards currently appropriate for the purpose for which the dam is intended to be used; and (b) designed with a floor and sides made of material that will contain the wetting front and any entrained contaminants within the bounds of the containment system during both its operational life and including any period of decommissioning and rehabilitation.						
PPSCE 15 (S)	All low hazard dams must be monitored for early signs of loss of structural or hydraulic integrity as specified in the initial hazard assessment.						
PPSCE 16 (S)	When no longer required all low hazard dams must be decommissioned to no longer accept inflow from the petroleum activities and be either:						

	(a) rehabilitated; or (b) agreed to in writing by the administering authority and the landholder to remain in situ following the cessation of the petroleum activity(ies) associated with the dam, with the contained water of a quality suitable for the intended ongoing uses(s) by that landholder.
Pipeline reinstatement and revegetation	
PPSCE 17 (S)	Pipeline trenches must be backfilled and topsoils reinstated within 3 months after pipe laying.
PPSCE 18 (S)	Reinstatement and revegetation of the pipeline right of way must commence within 6 months after completion of petroleum activities for the purpose of pipeline construction.
PPSCE 19 (S)	Backfilled, reinstated and revegetated pipeline trenches and right of way must be: (a) a stable landform (b) re-profiled to a level consistent with surrounding soils (c) re-profiled to original contours and established drainage lines (d) vegetated with groundcover which is not a declared pest species, and which is established and self-sustaining.
Schedule F – Post-construction conditions including operations, maintenance and decommissioning	
PPSCF 1 (S)	Pipeline operation and maintenance must be in accordance, to the greatest practicable extent, with the relevant section of the <i>APIA Code of Environmental Practice: Onshore Pipelines</i> (2009) and/or AS 2885.3:2012.
PPSCF 2 (S)	Written procedures must be developed to ensure operations and maintenance of the pipeline complies with the conditions of the environmental authority.
PPSCF 3 (S)	Flush water may be released to land provided that it meets the requirements of standard condition (PPSCE 8).
Final acceptance criteria for rehabilitation	
Variation 24	After decommissioning, all significantly disturbed land caused by the carrying out of the petroleum activity(ies) not being intended to be utilized by the landholder or overlapping tenure holder must be rehabilitated to meet the following final acceptance criteria: (a) any contaminated land (e.g. contaminated soils) is remediated and rehabilitated (b) rehabilitation is undertaken in a manner such that any actual or potential acid sulfate soils on the area of significant disturbance are treated to prevent or minimise environmental harm in accordance with the <i>Queensland Acid Sulfate Soil Technical Manual: Soil Management Guidelines</i>, as it is updated from time to time (c) for land that is not being cultivated by the landholder: i. groundcover, that is not a declared pest species, is not a prohibited matter and is not a restricted matter, is established and self-sustaining

	ii. vegetation of similar species richness and species diversity to pre-selected analogue sites is established and self-sustaining (d) for land that is to be cultivated by the landholder, cover crop is revegetated, unless the landholder will be preparing the site for cropping within 3 months of petroleum activities being completed.
Variation 25	Final rehabilitation acceptance criteria in environmentally sensitive areas Where significant disturbance to land has occurred in an environmentally sensitive area, the following final rehabilitation criteria, as compared to the surrounding undisturbed environment, must be met: (a) greater than or equal to 70% of native ground cover species richness (b) greater than or equal to the total per cent ground cover (c) less than or equal to the per cent species richness of declared plant pest species (d) greater than or equal to 50% of organic litter cover (e) greater than or equal to 50% of total density of coarse woody material; and (f) all predominant species in the ecologically dominant layer, that define the pre-disturbance regional ecosystem(s) are present.
PPSCF 5 (S)	Monitoring of performance indicators must be carried out on rehabilitation activities until final acceptance criteria in standard condition (PPSCF 4) have been met for the rehabilitated area.
Schedule G – Monitoring and reporting conditions	
Monitoring	
PPSCG 1 (S)	All monitoring must be undertaken by a suitably qualified person.
PPSCG 2 (S)	If requested by the administering authority in relation to investigating a valid complaint, monitoring must be undertaken within 10 business days.
PPSCG 3 (S)	All laboratory analyses and tests must be undertaken by a laboratory that has NATA accreditation for such analyses and tests, except as otherwise authorised in writing by the administering authority.
PPSCG 4 (S)	Notwithstanding standard condition (PPSCG 3), where there are no NATA accredited laboratories available to test for a specific analyte or substance, then duplicate samples must be sent to separate laboratories for independent testing or evaluation.
Sampling	
PPSCG 5 (S)	The methods of surface water sampling must comply with that set out in the Queensland Government's <i>Monitoring and Sampling Manual 2009 – Environmental Protection (Water) Policy 2009</i> .
PPSCG 6 (S)	The methods of groundwater sampling must comply with the Australian Government's <i>Groundwater Sampling and Analysis – A Field Guide</i> (2009:27 GeoCat #6890.1).

PPSCG 7 (S)	Noise must be measured in accordance with the prescribed standards in the <i>Environmental Protection Regulation 2019</i> .
PPSCG 8 (S)	The method of measurement of ambient air quality or point source contaminant releases to air must comply with the <i>Queensland Air Quality Sampling Manual</i> and/or Australian Standard 4323.1:1995 <i>Stationary source emissions method 1: Selection of sampling positions</i> , whichever is appropriate for the relevant measurement.
Notification	
PPSCG 9 (S)	In addition to the requirements under section 320A of the <i>Environmental Protection Act 1994</i>, the administering authority must be notified in writing within 5 business days of any event which has resulted in the contingency procedures required by standard conditions (PPSCC 6) and (PPSCC 7) being activated. Explanatory note: Notification under standard condition (PPSCG 9) should occur using the form, Incident notification for resource activities other than mining (EM706) available from the administering authority's website.
Reporting	
PPSCG 10 (S)	The annual return must include an Update Report detailing activities during the annual return period, demonstrating: a) significant disturbance during the period b) rehabilitation undertaken c) a list of all valid complaints relating to environmental issues made including the date, source, reason for the complaint and a description of investigations undertaken in resolving the complaint d) the results of all monitoring undertaken.

Definitions

Key terms and/or phrases used in this document are defined in this section. 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.

Term	Definition
acceptable standards for release to land	is defined as: (a) electrical conductivity (EC) not exceeding 3000µS/cm (b) sodium adsorption ratio (SAR) not exceeding 8 (c) and for hydrostatic testing water, water from low point drains and flush water, total heavy metals for each element listed meets the respective short term trigger value in Table 4.2.6. – Heavy metals and metalloids in Australian and New Zealand Guidelines for Fresh and Marine Water Quality (ANZECC) 2000.
accepted engineering standards	in relation to dams, means those standards of design, construction, operation and maintenance that are broadly accepted within the profession of engineering as being good practice for the purpose and application being considered. In the case of dams, the most relevant documents would be publications of the <i>Australian National Committee on Large Dams</i> (ANCOLD), guidelines published by Queensland government departments and relevant Australian and New Zealand Standards.
acid sulfate soil(s)	means a soil or soil horizon which contains sulfides or an acid soil horizon affected by oxidation of sulfides.
administering authority	has the meaning in Schedule 4 of the <i>Environmental Protection Act 1994</i> .
alternative arrangement	means a written agreement about the way in which a particular nuisance impact will be dealt with at a sensitive place, and may include an agreed period of time for which the arrangement is in place. An alternative arrangement may include, but is not limited to, a range of nuisance abatement measures to be installed at the sensitive place, or provision of alternative accommodation for the duration of the relevant nuisance impact.
analogue site(s)	means an area of land which contains values and characteristics representative of an area to be rehabilitated prior to disturbance. Such values must encompass land use, topographic, soil, vegetation and other ecological characteristics. Analogue sites can be the pre-disturbed site of interest where significant surveying effort has been undertaken to establish benchmark parameters.
analyte(s)	means a chemical parameter determined by either physical measurement in the field or by laboratory analysis.
annual return period	means the most current 12-month period between 2 anniversary dates.
aquifer	means an identifiable stratigraphic formation that has the potential to produce useful flows of water.

Term	Definition
areas of pre-existing disturbance	means areas where environmental values have been negatively impacted as a result of anthropogenic activity and these impacts are still evident. Areas of pre-disturbance may include areas where legal clearing, logging, timber harvesting, or grazing activities have previously occurred, where high densities of weed or pest species are present which have inhibited re-colonisation of native regrowth, or where there is existing infrastructure (regardless of whether the infrastructure is associated with the authorised petroleum activities). The term 'areas of pre-disturbance' does not include areas that have been impacted by wildfire/s, controlled burning, flood or natural vegetation die-back.
Airblast overpressure	as defined in the <i>Guideline: Noise and vibration from blasting</i> (ESR/2016/2169) available on the DES website.
associated water	means underground water taken or interfered with, if the taking or the interference happens during the course of, or results from, the carrying out of another authorised activity under a petroleum authority, such as a petroleum well, and includes waters also known as produced formation water. The term includes all contaminants suspended or dissolved in the water.
Australian Standard 2187	means Australian Standard 2187.0:1998 Explosives—Storage, transport and use, Part 0, Australian Standard 2187.1:1998 Explosives—Storage, transport and use Part 1 and Australian Standard 2187.2:2006 Explosives—Storage and use, Part 2 or any updated versions that becomes available from time to time.
Australian Standard 2885	means Australian Standard 2885.0:2008 Pipelines – Gas and Liquid Petroleum General Requirements, Australian Standard 2885.0-2008/Amdt 1-2012 Pipelines - Gas and Liquid Petroleum General Requirements, Australian Standard 2885.1:2012 Pipelines – Gas and Liquid Petroleum Design and Construction and Australian Standard 2885.3:2012 Pipelines – Gas and Liquid Petroleum Operation and Maintenance, or any updated versions that become available from time to time.
bed	of any waters, has the meaning in Schedule 12 Part 2 of the Environmental Protection Regulation 2008.

Term	Definition
being or intended to be utilised by the landholder or overlapping tenure holder	for significantly disturbed land, means there is a written agreement (e.g. land and compensation agreement) between the landholder or the overlapping tenure holder and the holder of the environmental authority identifying that the landholder or the overlapping tenure holder has a preferred use of the land such that rehabilitation standards for revegetation by the holder of the environmental authority are not required. For dams, means there is a written agreement (e.g. land and compensation agreement) between the landholder or the overlapping tenure holder and the holder of the environmental authority identifying that the landholder or the overlapping tenure holder has a preferred use for the dam such that rehabilitation standards for revegetation by the holder of the environmental authority are not required.
biodiversity values	for the purposes of this environmental authority, means environmentally sensitive areas, prescribed environmental matters and wetlands.
business day	has the meaning in section 36 of the <i>Acts Interpretation Act 1954</i> .
Category A ESA	as defined in Schedule 19 of the Environmental Protection Regulation 2019.
Category B ESA	as defined in Schedule 19 of the Environmental Protection Regulation 2019.
Category C ESA	means any of the following areas: • nature refuges as defined in the conservation agreement for that refuge under the <i>Nature Conservation Act 1992</i> • State forests or timber reserves as defined under the <i>Forestry Act 1959</i> • resources reserves under the <i>Nature Conservation Act 1992</i> • an area validated as from ground-truthing surveys as 'essential habitat' on the Queensland Government Essential Habitat Map in accordance with section 20AC of the <i>Vegetation Management Act 1999</i> for a species of wildlife listed as critically endangered, endangered, vulnerable under the <i>Nature Conservation Act 1992</i> • an area validated from ground-truthing surveys as 'protected wildlife habitat' that is category A, B or C on the Remnant Vegetation Management Map, in accordance with section 20A of the <i>Vegetation Management Act 1992</i>, for a species of wildlife listed as critically endangered, endangered or vulnerable under the <i>Nature Conservation Act 1992</i> • 'of concern regional ecosystems' identified in the database called 'RE description database' containing regional ecosystem numbers and descriptions • threshold regional ecosystems as defined and listed in Appendix 6 of the <i>Queensland Biodiversity Offsets Policy</i>

Term	Definition
	critically limited regional ecosystems as defined and listed in Appendix 5 of the <i>Queensland Biodiversity Offsets Policy</i>.
certified	in relation to any matter other than a design plan, 'as constructed' drawings or an annual report regarding dams means, a Statutory Declaration by a suitably qualified person or suitably qualified third party accompanying the written document stating: - the person's qualifications and experience relevant to the function - that the person has not knowingly included false, misleading or incomplete information in the document - that the person has not knowingly failed to reveal any relevant information or document to the administering authority - that the document addresses the relevant matters for the function and is factually correct; and - that the opinions expressed in the document are honestly and reasonably held.
clearing	has the meaning in the dictionary of the <i>Vegetation Management Act 2000</i> .
cultivated	means used for cropping or gardening.
coastal waters	has the meaning in section 440ZH of the <i>Environmental Protection Act 1994</i> and means the coastal waters of the state, and includes other waters within the limits of the state that are subject to the ebb and flow of the tide.
dam(s)	means a land-based structure or a void that is designed to contain, divert or control flowable substances, and includes any substances that are thereby contained, diverted or controlled by that land-based structure or void and associated works. A dam does not mean a fabricated or manufactured tank or container, designed and constructed to an Australian Standard that deals with strength and structural integrity of that tank or container.
daily peak design capacity	for sewage treatment works, has the meaning in Schedule 2, section 63(4) of the <i>Environmental Protection Regulation 2008</i> as the higher equivalent person (EP) for the works calculated using each of the formulae found in the definition for EP.
declared pest species	has the meaning in the <i>Land Protection (Pest and Stock Route Management) Regulation 2003</i> and is a live animal or plant declared to be a declared pest under section 36 (Declaring Pests by Regulation) or section 37(2) (Declaring Pest under Emergency Pest Notice) of that Act and includes reproductive material of the animal or plant.
decommissioning	in relation to pipelines means the actions undertaken in accordance with the requirements of Australian Standard 2885, as amended from time to time, to

Term	Definition
	prepare the pipeline and peripheral facilities for pending suspension or abandonment.
department	means the administering authority.
designated precinct	has the meaning in Part 5 section 15(3) of the Regional Planning Interests Regulation 2014: • for a strategic environmental area mentioned in section 4(1)—the area identified as a designated precinct on the strategic environmental area map for the strategic environmental area; or • for a strategic environmental area is shown on a map in a regional plan—the area identified on the map as a designated precinct for the strategic environmental area.
documents	has the meaning in section 36 of the <i>Acts Interpretation Act 1954</i> .
ecological connectivity	is a measure of ecological condition and means the flow or connection of organisms and ecological processes across landscapes at multiple scales. Ecological connectivity has a positive relationship with landscape connectivity and habitat connectivity and effects vary between species. It includes connectivity by stepping stone or contiguous bioregional/local corridor networks.
ecosystem functioning	means the interactions between and within living and nonliving components of an ecosystem and generally correlates with the size, shape and location of the vegetation community.
eligibility criteria	for an environmentally relevant activity, has the meaning in section 112 of the <i>Environmental Protection Act 1994</i> .
environmental attribute	has the meaning in section 11(2) of the <i>Regional Planning Interests Act 2014</i> .
environmental harm	has the meaning in section 14 of the <i>Environmental Protection Act 1994</i> .
environmental value(s)	has the meaning in section 9 of the <i>Environmental Protection Act 1994</i> .
environmental nuisance	has the meaning in section 15 of the <i>Environmental Protection Act 1994</i> .
environmental offset	has the meaning in section 7 of the <i>Environmental Offsets Act 2014</i> .
environmentally relevant activity or ERA	has the meaning in section 18 of the <i>Environmental Protection Act 1994</i> .
environmentally sensitive area	has the meaning in schedule 19 of the Environmental Protection Regulation 2019 or as defined in this environmental authority.
equivalent person or EP	has the meaning under section 3 of the Planning Guidelines For Water Supply and Sewerage, 2005, published by the Queensland Government. It is calculated in accordance with Schedule 2, Section 63(4) of the Environmental Protection Regulation 2008 where:

Term	Definition
	• $EP = V/200$ where V is the volume, in litres, of the average dry weather flow of sewage that can be treated at the works in a day; or • $EP = M/2.5$ where M is the mass, in grams, of phosphorus in the influent that the works are designed to treat as the inlet load in a day.
green waste	means waste that is grass cuttings, trees, bushes, shrubs, material lopped from trees, untreated timber or other waste that is similar in nature but does not include declared pest species.
greywater	means wastewater generated from domestic activities such as laundry, dishwashing, and bathing. Greywater does not include sewage.
hazard category	means a category, either low, significant or high, into which a dam is assessed as a result of the application of tables and other criteria in Manual for Assessing Hazard Categories and Hydraulic Performance of Dams, published by the Queensland Government, as amended from time to time.
high ecological value waters	means Queensland waters that are scheduled waters under the Environmental Protection (Water) Policy 2009 as high value ecological waters.
lake	means: • a lagoon, swamp or other natural collection of water, whether permanent or intermittent; and • the bed and banks and any other element confining or containing the water.
land degradation	has the meaning in the <i>Vegetation Management Act 1999</i> and means the following: • soil erosion • rising water tables • the expression of salinity • mass movement by gravity of soil or rock • stream bank instability a process that results in declining water quality.
levee	means an embankment that only provides for the containment and diversion of stormwater or flood flows from a contributing catchment, or containment and diversion of flowable materials resulting from releases from other works, during the progress of those stormwater or flood flows or those releases; and does not store any significant volume of water or flowable substances at any other times.
linear infrastructure	means powerlines, pipelines, roads and access tracks.
Low consequence dam	has the meaning in schedule 19 of the Environmental Protection Regulation 2019.
low impact petroleum activities	means petroleum activities which do not result in the clearing of native vegetation, cause disruption to soil profiles through earthworks or excavation or result in significant disturbance to land which cannot be rehabilitated immediately using hand tools after the activity is completed. Examples of such activities include but are not necessarily limited to soil surveys (excluding test

Term	Definition
	pits), topographic surveys, cadastral surveys and ecological surveys, may include installation of monitoring equipment provided that it is within the meaning of low impact and traversing land by car or foot via existing access tracks or routes or in such a way that does not result in permanent damage to vegetation.
Matter(s) of State environmental significance	has the meaning of the matters of State environmental significance listed in schedule 2 of the <i>Environmental Offsets Regulation 2014</i> .
month	has the meaning in s36 of the <i>Acts Interpretation Act 1954</i> .
NATA accreditation	means accreditation by the National Association of Testing Authorities Australia.
non-linear infrastructure	means infrastructure that is other than a powerline, a pipeline, a road, an access track and includes only the following: • workers camps • maintenance facilities • no-release sewage treatment plants • laydown areas • structures (i.e. dams or levees) • tanks • sediment and erosion control measures • above ground containers and chemical / fuel storages • water pumps and generators • stockpiles.
notice of election	has the meaning in section 18(2) of the <i>Environmental Offsets Act 2014</i> .
outer bank	has the meaning in section 5A of the <i>Water Act 2000</i> .
performance indicator(s)	means a quantitative measure against which success can be assessed and audited in a consistent, objective and repeatable manner.
Prescribed environmental matter(s)	has the meaning in section 10 of the <i>Environmental Offsets Act 2014</i> , limited to the matters of State environmental significant listed in schedule 2 of the <i>Environmental Offsets Regulation 2014</i> .
primary protection zone	means an area within 200 metres from the boundary of any Category A, B or C environmentally sensitive area.
produced water	has the meaning in section 15A of the <i>Petroleum and Gas (Production and Safety) Act 2004</i> and means CSG water or associated water for a petroleum tenure.
prohibited matter	has the meaning in section 19 of the <i>Biosecurity Act 2014</i> .

Term	Definition
Protected wildlife (flora/fauna) species	means: a. any fauna and/or flora that are critically endangered wildlife, endangered wildlife, vulnerable wildlife defined under the Nature Conservation Act 1992; and b. any special least concern animal defined under the Environmental Offsets Regulation 2014.
protection zone	refers to either the primary protection zone or the secondary protection zone.
regional ecosystem	Has the meaning in the Methodology for Surveying and Mapping of Regional Ecosystems and Vegetation Communities in Queensland (Version 3.2 August 2012) and means a vegetation community in a bioregion that is consistently associated with a particular combination of geology, landform and soil. Regional ecosystems of Queensland were originally described in Sattler and Williams (1999). The Regional Ecosystem Description Database (Queensland Herbarium 2013) is maintained by the Queensland Herbarium and contains the current descriptions of regional ecosystems.
regulated dam(s)	means any dam in the significant or high hazard category as assessed using the <i>Manual for Assessing Hazard Categories and Hydraulic Performance of Dams</i> , published by the Queensland Government, as amended from time to time.
rehabilitation or rehabilitated	means the process of reshaping and revegetating land to restore it to a stable landform and in accordance with acceptance criteria and, where relevant, includes remediation of contaminated land. For the purposes of pipeline rehabilitation, rehabilitation includes reinstatement, revegetation and restoration.
reinstated or reinstatement	means the process of bulk earth works and structural replacement of pre-existing conditions of a site (i.e. soil surface topography, watercourses, culverts, fences and gates and other landscape(d) features) and is detailed in the <i>APIA Code of Environmental Practice: Onshore Pipelines</i> (2009).
release, releases or released	has the meaning in Schedule 4 of the <i>Environmental Protection Act 1994</i> .
restoration	means the replacement of structural habitat complexity, ecosystem processes, services and function from a disturbed or degraded site to that of a pre-determined or analogue state. For the purposes of pipelines, restoration applies to final rehabilitation after pipeline decommissioning.
revegetation or revegetating or revegetate	means to actively re-establish vegetation through seeding or planting techniques in accordance with site specific management plans.
right of way	means the linear construction footprint required to install pipelines.
secondary protection zone	in relation to a Category A or Category B environmentally sensitive area means an area within 100 metres from the boundary of the primary protection zone.

Term	Definition
secondary treated class B standards	means treated sewage effluent or greywater which meets the following standards: • total phosphorous as P, maximum 20mg/L • total nitrogen as N, maximum 30mg/L • 5-day biochemical oxygen demand (inhibited) (e.g. release pipe from sewage treatment plant), maximum 20mg/L • suspended solids, maximum 30mg/L • pH, range 6.0 to 8.5 • e-coli, 80th percentile based on at least 5 samples with not less than 30 minutes between samples, 1000cfu per 100mL, maximum 10000cfu per 100mL.
secondary treated class C standards	means treated sewage effluent or greywater which meets the following standards: • total Phosphorous as P, maximum 20mg/L • total Nitrogen as N, maximum 30mg/L • 5-day Biochemical oxygen demand (inhibited) (e.g. Release pipe from sewage treatment plant), maximum 20mg/L • suspended solids, maximum 30mg/L • pH, range 6.0 to 8.5 • e-Coli, 80th percentile based on at least 5 samples with not less than 30 minutes between samples, 10000cfu per 100mL, maximum 100000cfu per 100mL.
sensitive place	means: • a dwelling (including residential allotment, mobile home or caravan park, residential marina or other residential premises, motel, hotel or hostel) • a library, childcare centre, kindergarten, school, university or other educational institution • a medical centre, surgery or hospital • a protected area • a public 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 • a work place used as an office or for business or commercial purposes, which is not part of the petroleum activity(ies) and does not include employees accommodation or public roads • for noise, a place defined as a sensitive receptor for the purposes of the Environmental Protection (Noise) Policy 2008.
significant residual impact	has the meaning in section 8 of the <i>Environmental Offsets Act 2014</i> .
species richness	means the number of different species in a given area.

Term	Definition
species diversity	means the diversity within an ecological community that incorporates both species richness and the evenness of species' abundances.
spring(s)	has the meaning in Schedule 4 of the <i>Water Act 2000</i>
stable	in relation to land, means landform dimensions are or will be stable within tolerable limits now and in the foreseeable future. Stability includes consideration of geotechnical stability, settlement and consolidation allowances, bearing capacity (trafficability), erosion resistance and geochemical stability with respect to seepage, leachate and related contaminant generation.
strategic environmental area	Has the meaning in section 11(1) of the <i>Regional Planning Interests Act 2014</i> .
structure	means a dam or levee.
suitably qualified person	means a person who has qualifications, training, skills and experience relevant to the nominated subject matter and can give authoritative assessment, advice and analysis to performance relative to the subject matter using the relevant protocols, standards, methods or literature.
top soil	means the surface (top) layer of a soil profile, which is more fertile, darker in colour, better structured and supports greater biological activity than underlying layers. The surface layer may vary in depth depending on soil forming factors, including parent material, location and slope, but generally is not greater than about 300mm in depth from the natural surface.
trench spoil	means soil from the pipeline trench.
valid complaint	means a complaint that is not considered by the administering authority or holder of the environmental authority to be frivolous, vexatious or based on mistaken belief.
waste and resource management hierarchy	has the meaning provided in section 9 of the <i>Waste Reduction and Recycling Act 2011</i> .
waste and resource management principles	has the meaning provided in section 4(2)(b) of the <i>Waste Reduction and Recycling Act 2011</i> .
waters	means all or any part of a creek, river, stream, lake, lagoon, swamp, wetland, spring, unconfined surface water, unconfined water in natural or artificial watercourses, bed and bank of any waters, non-tidal or tidal waters (including the sea), stormwater channel, stormwater drain, roadside gutter, stormwater run-off, and underground water.
watercourse	has the meaning provided in Schedule 4 of the <i>Environmental Protection Act 1994</i> .
wetland	has the meaning provided in schedule 19 of the Environmental Protection Regulation 2019.
year(s)	has the meaning in s36 of the <i>Acts Interpretation Act 1954</i> .

END OF ENVIRONMENTAL AUTHORITY