

Permit

Environmental Protection Act 1994

Environmental authority P-EA-100487720

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

Environmental authority number: P-EA-100487720

Environmental authority takes effect on the date that your related tenure is granted. This is the take effect date.

The first annual fee is payable within 20 business days of the take effect date.

The anniversary date of this environmental authority is the same day each year as the take effect 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.

Environmental authority holder(s)

Name(s)	Registered address
ARC PIPELINE PTY LTD	Level 30, 180 Ann Street BRISBANE QLD 4000

Environmentally relevant activity and location details

Environmentally relevant activity/activities	Location(s)
Non-Scheduled - Petroleum Activity - Petroleum Pipeline Licence (PPL)	PPL2075

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).

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:

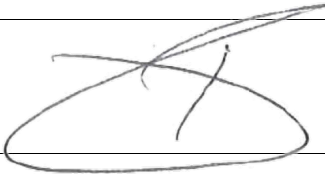
- a) if the authority is for a prescribed ERA and it states that it takes effect on the day nominated by the holder of the authority in a written notice given to the administering authority - on the nominated day; or
- b) if the authority states a day or an event for it to take effect-on the stated day 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 original take effect date unless you apply to change the anniversary day. 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

18 December 2023

Date

Tristan Roberts
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

Privacy statement

Pursuant to section 540 of the EP Act, the Department is required to maintain a register of certain documents and information authorised under the EP Act. A copy of this document will be kept on the public register. The register is available for inspection by members of the public who are able take extracts, or copies of the documents from the register. Documents that are required to be kept on the register are published in their entirety, unless alteration is required by the EP Act. There is no general discretion allowing the Department to withhold documents or information required to be kept on the public register. For more information on the Department's public register, search 'public register' at www.qld.gov.au. For queries about privacy matters please email privacy@des.qld.gov.au or telephone 13 74 68.

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 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	<p>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:</p> <ul style="list-style-type: none"> (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): <ul style="list-style-type: none"> i. ERA 8 – Chemical Storage ii. ERA 60(1a) – (1d) – Regulated waste disposal iii. ERA 60(2d) – (2h) – General waste disposal > 10,000t/year 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	<p>The environmental authority authorises the carrying out of petroleum activities listed in <i>Table – Authorised petroleum activities</i> to the extent they are carried out in accordance with the activity’s corresponding scale and location.</p> <p>Table – Authorised petroleum activities</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2" style="text-align: center;">Authorised petroleum activity</th> <th colspan="2" style="text-align: center;">Scale</th> <th rowspan="2" style="text-align: center;">Maximum disturbance (ha)</th> </tr> <tr> <th style="text-align: center;">Maximum size</th> <th style="text-align: center;">location</th> </tr> </thead> <tbody> <tr> <td>Atlas to Reedy Creek Pipeline (ARCP)</td> <td style="text-align: center;">57km long, 30m wide</td> <td rowspan="6" style="text-align: center;">PPL2075 and according to <i>ARCP EA Spatial Data 231214</i> dated 14 December 2023</td> <td style="text-align: center;">169.54</td> </tr> <tr> <td>Workspaces</td> <td style="text-align: center;">185</td> <td style="text-align: center;">16.4</td> </tr> <tr> <td>Cathodic Protection beds</td> <td style="text-align: center;">2off 10x20m, plus 750m of access track (10m width)</td> <td style="text-align: center;">1.5</td> </tr> <tr> <td>Cold vent at the inlet</td> <td style="text-align: center;">1</td> <td style="text-align: center;">0.003</td> </tr> <tr> <td>Inlet facility access track</td> <td></td> <td style="text-align: center;">0.1</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Authorised petroleum activity	Scale		Maximum disturbance (ha)	Maximum size	location	Atlas to Reedy Creek Pipeline (ARCP)	57km long, 30m wide	PPL2075 and according to <i>ARCP EA Spatial Data 231214</i> dated 14 December 2023	169.54	Workspaces	185	16.4	Cathodic Protection beds	2off 10x20m, plus 750m of access track (10m width)	1.5	Cold vent at the inlet	1	0.003	Inlet facility access track		0.1			
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PPSCA 2 (S)	<p>The following types of petroleum activities are not authorised:</p> <ul style="list-style-type: none"> (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. <p>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></p>																									

Variation 2	<p>The only impacts permitted within Category A Environmentally Sensitive Areas (ESAs), or Category B ESAs or Category C ESAs or primary protection zones and secondary protection zones are:</p> <p>a) impacts to Category B ESAs and Category C ESAs, as well as primary protection zones and secondary protection zones, within the boundary of the ARCP footprint as defined in the spatial data <i>ARCP EA Spatial Data 231214</i> submitted to the administering authority on 14 December 2023.</p>																																																																																			
Variation 3	<p>Prescribed environmental matters - matters of State environmental significance Impacts to matters of State environmental significance (MSES) as a result of carrying out the activity must only occur within the locations and to the maximum extents stated in <i>Table – Authorised impacts to MSES</i>.</p> <p>Table – Authorised impacts to MSES</p> <table border="1"> <thead> <tr> <th>Matters of State environmental significance</th> <th>Location of impact (as identified in condition Variation 9)</th> <th>Maximum extent of impact (ha)</th> <th>Significant residual impact And Offset Required</th> </tr> </thead> <tbody> <tr> <td colspan="4">REGULATED VEGETATION</td> </tr> <tr> <td colspan="4">Endangered regional ecosystem</td> </tr> <tr> <td>11.9.5 (mid-dense)</td> <td>PPL2075</td> <td>0.17</td> <td>Yes</td> </tr> <tr> <td>11.9.5a (mid-dense)</td> <td>PPL2075</td> <td>0.283</td> <td>Yes</td> </tr> <tr> <td>11.5.16 (mid-dense)</td> <td>PPL2075</td> <td>0.81</td> <td>Yes</td> </tr> <tr> <td colspan="4">Of concern regional ecosystem (not within an urban area)</td> </tr> <tr> <td>11.3.2 (sparse)</td> <td>PPL2075</td> <td>0.84</td> <td>Yes</td> </tr> <tr> <td>11.3.4 (sparse)</td> <td>PPL2075</td> <td>0.01</td> <td>No</td> </tr> <tr> <td>11.10.8 (dense)</td> <td>PPL2075</td> <td>0.16</td> <td>Yes</td> </tr> <tr> <td colspan="4">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>11.3.2 (sparse)</td> <td>PPL2075</td> <td>0.44</td> <td rowspan="6">1.876 Yes</td> </tr> <tr> <td>11.3.18 (sparse)</td> <td>PPL2075</td> <td>0.15</td> </tr> <tr> <td>11.3.19 (sparse)</td> <td>PPL2075</td> <td>0.40</td> </tr> <tr> <td>11.3.25 (sparse)</td> <td>PPL2075</td> <td>0.85</td> </tr> <tr> <td>11.9.5 (dense)</td> <td>PPL2075</td> <td>0.03</td> </tr> <tr> <td>11.9.5a (mid dense)</td> <td>PPL2075</td> <td>0.006</td> </tr> <tr> <td colspan="4">PROTECTED WILDLIFE HABITAT</td> </tr> <tr> <td colspan="4">An area that is not shown as a high-risk area on the flora survey trigger map that contains plants that are critically endangered wildlife, endangered wildlife or vulnerable wildlife – insert area and species names</td> </tr> <tr> <td>Ooline (<i>Cadellia pentastylis</i>) Vulnerable</td> <td>PPL2075</td> <td>0.12ha</td> <td>No</td> </tr> <tr> <td colspan="4">Habitat for an animal that is critically endangered wildlife, endangered wildlife or vulnerable wildlife or a special least concern animal – insert area and species name</td> </tr> <tr> <td>Short-beaked echidna (<i>Tachyglossus aculeatus</i>) Special Least Concern</td> <td>PPL2075</td> <td>34.28ha</td> <td>No</td> </tr> </tbody> </table>	Matters of State environmental significance	Location of impact (as identified in condition Variation 9)	Maximum extent of impact (ha)	Significant residual impact And Offset Required	REGULATED VEGETATION				Endangered regional ecosystem				11.9.5 (mid-dense)	PPL2075	0.17	Yes	11.9.5a (mid-dense)	PPL2075	0.283	Yes	11.5.16 (mid-dense)	PPL2075	0.81	Yes	Of concern regional ecosystem (not within an urban area)				11.3.2 (sparse)	PPL2075	0.84	Yes	11.3.4 (sparse)	PPL2075	0.01	No	11.10.8 (dense)	PPL2075	0.16	Yes	Regional ecosystems (not within an urban area) within the defined distance from the defining banks of a relevant watercourse or relevant drainage feature				11.3.2 (sparse)	PPL2075	0.44	1.876 Yes	11.3.18 (sparse)	PPL2075	0.15	11.3.19 (sparse)	PPL2075	0.40	11.3.25 (sparse)	PPL2075	0.85	11.9.5 (dense)	PPL2075	0.03	11.9.5a (mid dense)	PPL2075	0.006	PROTECTED WILDLIFE HABITAT				An area that is not shown as a high-risk area on the flora survey trigger map that contains plants that are critically endangered wildlife, endangered wildlife or vulnerable wildlife – insert area and species names				Ooline (<i>Cadellia pentastylis</i>) Vulnerable	PPL2075	0.12ha	No	Habitat for an animal that is critically endangered wildlife, endangered wildlife or vulnerable wildlife or a special least concern animal – insert area and species name				Short-beaked echidna (<i>Tachyglossus aculeatus</i>) Special Least Concern	PPL2075	34.28ha	No
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	Glossy black-cockatoo (<i>Calyptrorhynchus lathami lathami</i>) Vulnerable	PPL2075	30.2ha	Yes
	Squatter pigeon (southern) <i>Geophaps scripta scripta</i> Vulnerable	PPL2075	34.44ha	Yes
	White-throated needletail (<i>Hirundapus Caudacutus</i>) Vulnerable	PPL2075	209.2 ha	No
	Koala (<i>Phascolarctos cinereus</i>) Endangered	PPL2075	40.17	Yes
	Greater glider (southern and central) (<i>Petauroides volans</i>) Endangered	PPL2075	32.17	Yes
	Dulacca woodland snail (<i>Adclarkia dulacca</i>) Endangered	PPL2075	5.32	No
Variation 4	Records of impacts to MSES in condition Variation 3 must be kept for the life of the environmental authority and include: <ul style="list-style-type: none"> a. the size and extent of impact; and b. details about the condition of the MSES (e.g., dominant vegetation and remnant status). 			
Variation 5	<p>Environmental Offsets</p> <p>An environmental offset must be made in accordance with the <i>Environmental Offsets Act 2014</i> and Queensland Environmental Offsets Policy, for the maximum extent of impact to each prescribed environmental matter requiring an offset as listed in <i>Table – Authorised impacts to MSES</i>, unless the impact(s) to the prescribed environmental matter is the same, or substantially the same, impact on the same, or substantially the same, prescribed environmental matter as has been assessed under a relevant Commonwealth Act.</p> <p>Note: Deemed conditions provided in section 16 of the <i>Environmental Offsets Act 2014</i> also apply to this authority. Any contravention of a deemed condition will be dealt with under the <i>Environmental Protection Act 1994</i>.</p>			
Variation 6	Prior to the commencement of any impacts to a prescribed environmental matter for which an environmental offset is required by condition (Variation 5), a report completed by an appropriately qualified person that contains an analysis of the estimated maximum extent of impact to each prescribed environmental matter must be provided to the administering authority.			
Variation 7	The report required by condition (Variation 6) must be approved by the administering authority before the notice of election, if applicable, is given to the administering authority.			
Variation 8	The notice of election for the environmental offset required by condition (Variation 5), 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.			

Variation 9	<p>Spatial records</p> <p>Spatial records must be kept for the life of the environmental authority that are sufficient to demonstrate compliance with the following conditions:</p> <ul style="list-style-type: none"> a) Condition (Variation 2) relating to ESA and PPZ impacts within the ARCP footprint; b) Condition (Variation 3) relating to MSES impacts; c) Condition (Variation 4) relating to record keeping of MSES impacts; d) Condition (Variation 13) relating to protected wildlife encounters. e) Condition (Variation 16) relating to areas of significant disturbance to land. <p>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.</p>
Variation 10	All records or documents required to be prepared, held or kept under this environmental authority must be provided to the administering authority upon written request within the requested timeframe.
Schedule B – Protecting environmental values	
PPSCB 2 (S)	Petroleum activities must not cause <u>environmental nuisance</u> from dust, odour, light, smoke or noise at a <u>sensitive place</u> , other than where an <u>alternative arrangement</u> is in place.
PPSCB 3 (S)	Contaminants must not be directly or indirectly <u>released</u> to land or air except for those releases authorised by standard conditions (PPSCC 13), (PPSCC 14), (PPSCC 15), (PPSCC 16), (PPSCE 4), (PPSCE 8), (PPSCE 11), (PPSCE 12) and (PPSCF 3).
Variation 11	<u>No impact petroleum activities</u> are permitted in a <u>designated precinct</u> of a <u>Strategic Environmental Area</u> .
Variation 12	<p>Biodiversity</p> <p>Fauna must not be harmed from entrapment during the construction, operation and decommissioning of well infrastructure, dams, pipeline trenches and pipelines.</p>
Variation 13	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 <i>Table - Authorized impacts to MSES</i> .
Variation 14	<p>For activities within the maximum extent of impact for the Dulacca woodland snail, as identified in <i>Table – Authorised impacts to MSES</i>, a suitably qualified person must implement, and make record of, the following requirements:</p> <ul style="list-style-type: none"> a) any Dulacca woodland snail individuals identified pre-clearing must be relocated to areas of nearby suitable habitat; and b) pre-clearing and post-clearing coarse woody debris/fallen timber is redistribution along the pipeline right of way.
Variation 15	Planning for land disturbance

	<p>The location of the activity must be selected in accordance with the following site planning principles:</p> <ul style="list-style-type: none"> 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 16	Where significant disturbance to land is to occur, records demonstrating compliance with condition (Variation 15) must be kept.
Schedule C – Operating standards	
Documentation	
PPSCC 1 (S)	<p>All plans, procedures and reports must:</p> <ul style="list-style-type: none"> (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	
Variation 17	<p>Petroleum activities involving significant disturbance to land cannot commence until the development of written contingency procedures for emergency environmental incidents which include, but are not necessarily limited to:</p> <ul style="list-style-type: none"> (a) a clear definition of what constitutes an environmental emergency incident or near miss for the petroleum activity. (b) consideration of the risks caused by the petroleum activity including the impact of flooding and other natural events on the petroleum activity. (c) response procedures to be implemented to prevent or minimise the risks of environmental harm occurring. (d) the practices and procedures to be employed to restore the environment or mitigate any environmental harm caused. (e) procedures to investigate causes and impacts including impact monitoring programs for releases to waters and/or land. (f) training of staff to enable them to effectively respond.

Soil management	
Variation 18	<p>For activities involving significant disturbance to land, control measures that are commensurate to the site-specific risk of erosion, and risk of sediment release to waters must be implemented to:</p> <ul style="list-style-type: none"> (a) Preferentially divert stormwater around significantly disturbed land, or allow stormwater to pass through the site in a controlled manner and at non-erosive flow velocities; (b) Minimise soil erosion resulting from wind, rain and flowing water; (c) Minimise the duration that disturbed soils are exposed to the erosive forces of wind, rain and flowing water; (d) Minimise work-related soil erosion and sediment runoff; and (e) Minimise negative impacts to land or properties adjacent to the activities.
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 <u>waste and resource management hierarchy</u> and the <u>waste and resource management principles</u> .
PPSCC 13 (S)	For waste fluids that can be stored in a container that is other than a <u>low hazard dam</u> , the container must either be an above ground container or a <u>structure</u> 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.
PPSCC 15 (S)	<u>Green waste</u> may be used on-site for <u>rehabilitation</u> and/or sediment and erosion control purposes.
Treated sewage effluent	
PPSCC 16 (S)	<p>Treated sewage effluent or <u>greywater</u> can be released to land provided it:</p> <ul style="list-style-type: none"> (a) meets or exceeds <u>secondary treated class B standards</u> for a treatment system with a daily peak design capacity of between 150 EP and 1500 EP; or (b) meets or exceeds <u>secondary treated class C standards</u> 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 (2009)</i> and/or AS 2885.1:2012.
Planning for disturbance	
PPSCD 2 (S)	Notwithstanding condition (PPSCD 1), pipeline construction corridors must: <ul style="list-style-type: none"> (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 <u>linear infrastructure</u>.
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 (2009)</i> 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 and/or maintenance of linear infrastructure, are not permitted in or within: <ul style="list-style-type: none"> (a) 200 metres of any <u>wetland, lake or spring</u>; or (b) 100 metres of the <u>outer bank</u> of any other <u>watercourse</u>.
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: <ol style="list-style-type: none"> 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 <u>high ecological value waters</u> 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> .

PPSCE 6 (S)	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 sections 5 and 6 of the guideline <i>Activities in a watercourse, lake or spring associated with a resource activity or mining operations</i> .
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 <u>dams</u> .
Waste	
PPSCE 8 (S)	Trench water, hydrostatic testing water or water from low point drains, may be released to land provided that it: <ul style="list-style-type: none"> a) can be demonstrated to meet the <u>acceptable standards for release to land</u> 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	
PPSCE 10 (S)	A Blast Management Plan must be developed for each blasting activity in accordance with Australian Standard 2187.
PPSCE 11 (S)	Blasting operations must be designed to not exceed an airblast overpressure level of 120dB (linear peak) at any time, when measured at or extrapolated to any sensitive place.
PPSCE 12 (S)	Blasting operations must be designed to not exceed a ground-borne vibration peak particle velocity of 10mm/s at any time, when measured at or extrapolated to any sensitive place.
Structures that are dams or levees	
PPSCE 13 (S)	The <u>hazard category</u> of any dam or <u>levee</u> 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: <ul style="list-style-type: none"> a) constructed, operated and maintained in accordance with <u>accepted engineering standards</u> 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: <ul style="list-style-type: none"> (a) <u>rehabilitated</u>; 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 <u>reinstated</u> within 3 <u>months</u> after pipe laying.
PPSCE 18 (S)	<u>Reinstatement</u> and <u>revegetation</u> 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 <u>revegetated</u> pipeline trenches and right of way must be: <ul style="list-style-type: none"> (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 <u>declared pest species</u>, 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	
PPSCF 4 (S)	After decommissioning, all significantly disturbed land caused by the carrying out of the petroleum activity(ies) must be rehabilitated to meet the following final acceptance criteria: <ul style="list-style-type: none"> (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 <u>acid sulfate soils</u> on the area of significant disturbance are treated to prevent or minimise environmental harm in accordance with the <i>Instructions for the treatment and management of acid sulfate soils</i> (2001) (c) for land that is not being <u>cultivated</u> by the landholder: <ul style="list-style-type: none"> i. groundcover, that is not a declared pest species is established and self-sustaining.

	<p>ii. vegetation of similar <u>species richness</u> and <u>species diversity</u> to pre-selected <u>analogue sites</u> is established and self-sustaining.</p> <p>(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.</p>
PPSCF 5 (S)	Monitoring of <u>performance indicators</u> 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 <u>business days</u> .
PPSCG 3 (S)	All laboratory analyses and tests must be undertaken by a laboratory that has <u>NATA accreditation</u> 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 <u>analyte</u> 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 (2009:27 GeoCat #6890.1)</i> .
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	
Variation 19	<p>In addition to the requirements under Chapter 7, Part 1, Division 2 of the <i>Environmental Protection Act 1994</i>, the administering authority must be notified through the Pollution Hotline and in writing, as soon as possible, but within 48 hours of becoming aware of any of the following events:</p> <p>(a) any unauthorised significant disturbance to land;</p>

	<ul style="list-style-type: none"> (b) potential or actual loss of pipeline integrity; (c) unauthorised releases of any volume of prescribed contaminants to waters; (d) unauthorised releases of volumes of contaminants, in any mixture, to land greater than: <ul style="list-style-type: none"> i. 200 L of hydrocarbons; or ii. 200 L of stimulation additives; or iii. 1,000 L of brine; or iv. 5,000 L of untreated coal seam gas water. (e) monitoring results where two out of any five consecutive samples do not comply with the relevant limits in the environmental authority.
Reporting	
PPSCG 10 (S)	<p>The annual return must include an Update Report detailing activities during the <u>annual return period</u>, demonstrating:</p> <ul style="list-style-type: none"> (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

Explanatory note: Where a term is not defined in this document, the definition in the Environmental Protection Act 1994, its regulations and environmental protection policies, then the Acts Interpretation Act 1954 then the Macquarie Dictionary should be used in that order.

Term	Definition
acceptable standards for release to land	is defined as: <ul style="list-style-type: none"> (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 (ANCOLD)</i> , 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
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 19 Part 2 of the Environmental Protection Regulation 2019.
business day	has the meaning in section 36 of the <i>Acts Interpretation Act 1954</i> .
Category A ESA	has the meaning in the Environmental Protection Regulation 2019.
Category B ESA	has the meaning in the Environmental Protection Regulation 2019.
Category C ESA	<p>means any of the following areas:</p> <ul style="list-style-type: none"> • 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 ‘essential habitat’ or ‘essential regrowth habitat’ from ground-truthing surveys in accordance with the <i>Vegetation Management Act 1999</i> for a species of wildlife listed as endangered, vulnerable, rare or near threatened 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> • critically limited regional ecosystems as defined and listed in Appendix 5 of the <i>Queensland Biodiversity Offsets Policy</i>.

Term	Definition
certified	<p>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:</p> <ul style="list-style-type: none"> • 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 Environmental Protection Regulation 2019 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 Land Protection (Pest and Stock Route Management) Regulation 2003 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 prepare the pipeline and peripheral facilities for pending suspension or abandonment.

Term	Definition
designated precinct	has the meaning in Part 5 section 15(3) of the Regional Planning Interests Regulation 2014: <ul style="list-style-type: none"> • 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> .
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: <ul style="list-style-type: none"> • $EP = V/200$ 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.
environmentally relevant activity or ERA	has the meaning in section 18 of the <i>Environmental Protection Act 1994</i> .
financial assurance	for an environmental authority, means financial assurance given for the authority under Chapter 5, part 12, division 2 of the <i>Environmental Protection Act 1994</i> .

Term	Definition
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 and Wetland Biodiversity) Policy 2019 as high value ecological waters.
lake	means: <ul style="list-style-type: none"> • 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.
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 hazard dam	means any dam that is not classified as high or significant as assessed using the <i>Manual for Assessing Hazard Categories and Hydraulic Performance of Dams</i> , published by the Queensland Government and which contains contaminants in concentrations which exceed or will exceed, during the dam's operational life, the values or range shown in Table 3 of the manual.
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 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.
month	has the meaning in s36 of the <i>Acts Interpretation Act 1954</i> .

Term	Definition
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: <ul style="list-style-type: none"> • 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.
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.
primary protection zone	means an area within 200 metres from the boundary of any Category A, B or C environmentally sensitive area.
Protected wildlife	an animal that is critically endangered wildlife, endangered wildlife or vulnerable wildlife or a special least concern animal, in accordance with the <i>Nature Conservation Act 1992</i> .
record	has the meaning in section 36 of the <i>Acts Interpretation Act 1954</i> .
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 typography, watercourses,

Term	Definition
	culverts, fences and gates and other landscape(d) features) and is detailed in the APIA <i>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.
secondary treated class B standards	means treated sewage effluent or greywater which meets the following standards: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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:

Term	Definition
	<ul style="list-style-type: none"> • 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 2019.
significantly disturbed or significant disturbance or significant disturbance to land or areas	means disturbance to land as defined in Schedule 12, section 4 of the Environmental Protection Regulation 2008.
species richness	means the number of different species in a given area.
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

Term	Definition
	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	<p>means a wetland as defined under the Queensland Wetlands Program and are areas of permanent or periodic/intermittent inundation, with water that is static or flowing fresh, brackish or salt, including areas of marine water, the depth of which at low tide does not exceed 6 metres. To be classified as a wetland, the area must have one or more of the following attributes:</p> <ul style="list-style-type: none"> • at least periodically, the land supports plants or animals that are adapted to and dependent on living in wet conditions for at least part of their life cycle; or • the substratum is predominantly undrained soils that are saturated, flooded or ponded long enough to develop anaerobic conditions in the upper layers; or • the substratum is not soil and is saturated with water, or covered by water at some time. <p>For the purposes of petroleum activities, wetlands do not include springs and watercourses and those wetlands that are defined in the <i>Wetland Mapping and Classification Methodology (2005)</i> published by the Queensland Government as:</p> <ul style="list-style-type: none"> • H2M1 Riverine or ex-riverine (lacustrine) water bodies associated with dams and weirs located in a channel • H2M3p Ponded pastures • H2M5 Palustrine/lacustrine water bodies where ecological character has changed due to gross mechanical disturbance (e.g. cropping)

Term	Definition
	<ul style="list-style-type: none"> • H2M6 Palustrine/lacustrine water bodies that have been converted, completely or mostly, to a ring tank or other controlled storage • H2M7 Riverine water bodies that have been converted mostly to canals or irrigation channels • H3C1 Artificial stand-alone water storages not within a natural water body or channel; or • H3C2 Artificial Channel drain/canal – bore drains, swales, bores and irrigation channel overflows/ponding. <p><i>Explanatory note: This definition has been amended from the Queensland Wetlands Program definition so that low value wetlands and man-made water bodies are excluded.</i></p>
year(s)	has the meaning in s36 of the <i>Acts Interpretation Act 1954</i> .

END OF ENVIRONMENTAL AUTHORITY

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