

Permit

Environmental Protection Act 1994

Environmental authority EPPG00674213

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

Environmental authority number: EPPG00674213

Environmental authority takes effect on 18 September 2019

Environmental authority holder(s)

Name(s)	Registered address
Tokyo Gas QCLNG Pty Ltd	Level 21 Exchange Plaza 2 The Esplanade PERTH WA 6000
QGC (Infrastructure) Pty Ltd	Level 30 275 George Street BRISBANE CITY QLD 4000 Australia
CNOOC Infrastructure Company Pty Ltd	Level 34 123 Eagle Street BRISBANE CITY QLD 4000 Australia

Environmentally relevant activity and location details

Environmentally relevant activity/activities	Location(s)
Resource Activity, Non-Scheduled, Petroleum Activity, Petroleum Pipeline Licence - PPL	PPL91

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).

Environmental authority

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 Sustainable Planning Act 2009 or an SDA Approval under the State Development and Public Works Organisation Act 1971), this EA will not take effect until the additional authorisation has taken effect.

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

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

Tristan Roberts
Department of Environment and Science
Delegate of the administering authority
Environmental Protection Act 1994

Enquiries:
Petroleum and Gas Unit
Department of Environment and Science
Phone: 3330 5715
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Date issued: 18 September 2019

Environmental authority

Obligations under the Environmental Protection Act 1994

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

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

Conditions of environmental authority

Agency Interest: General	
Condition number	Condition
(A1)	This authority does not authorise environmental harm unless a condition contained within this authority explicitly authorises that harm. Where there is no condition or the authority is silent on a matter, the lack of a condition or silence shall not be construed as authorising harm.
(A2)	In carrying out petroleum activities the holder of this authority must prevent and / or minimise the likelihood of environmental harm being caused.
(A3)	The holder of this authority must: a) install all measures, plant and equipment necessary to ensure compliance with the conditions of this authority; and b) maintain such measures, plant and equipment in a proper and efficient condition; and c) operate such measures, plant and equipment in a proper and efficient manner.
(A4)	All instruments, equipment and measuring devices used for measuring or monitoring in accordance with any condition of this authority must be calibrated, appropriately operated and maintained.
(A5)	No change, replacement or alteration of any plant or equipment is permitted if the change, replacement or alteration increases the environmental harm caused by the petroleum activities.
(A6)	The holder of this authority must ensure that daily operation and maintenance of all plant and equipment relating to the authorised petroleum activities are carried out by suitability qualified, competent and experienced person(s).
(A7)	All analyses and tests required to be conducted under this authority must be carried out by a laboratory that has NATA certification for such analyses and tests, except as otherwise authorised by the administering authority.
(A8)	The holder of this authority must comply with the relevant control strategies and standards detailed in the " <i>PPL91 Windibri Gas Pipeline Environmental Management Plan</i> ", Revision 2 dated 4 December 2008 and any versions thereafter, to manage environmental impacts caused by the undertaking of petroleum activities authorised under this authority.
(A9)	The holder of this authority must provide a financial assurance in the amount and form required by the administering authority for the construction, operation, decommissioning and rehabilitation of the authorised pipeline. The financial assurance must be calculated using third party costs and in accordance with the guideline "Financial assurance for petroleum activities".
(A10)	Subject to Condition (A9), the holder of this authority must revise the estimate of financial assurance every five (5) years on the anniversary date of this authority.

(A11)	In accordance with Condition (A10), the revised calculation of financial assurance must be provided to administering: authority twenty (20) business days after the anniversary date of this authority.
(A12)	The financial assurance is to remain in force until the administering authority is satisfied that no claim is likely to be made on the assurance.
(A13)	Words and phrases used in this authority are defined in Appendix 1 — Definitions. Where a definition for a term used in this authority is sought and the term is not defined within this authority, the definitions in the <i>Environmental Protection Act 1994</i> , its Regulation and Environmental Protection Policies must be used.
Schedule B Air Emissions	
Condition number	Condition
(B1)	The release of any dust and particulate matter resulting from the petroleum activities must not cause an environmental nuisance at any sensitive or commercial place:
(B2)	In relation to a complaint received in Condition (B1), dust and particulate matter must not exceed the following levels at any sensitive or commercial place: a) Dust deposition of 120 milligrams per square metre per day, averaged over one month, when monitored in accordance with AS 3580.10.1 <i>Methods for sampling and analysis of ambient air-Determination of particulates - Deposited matter-Gravimetric method of 1991</i>; or b) a concentration of particulate matter with an aerodynamic diameter of less than 10 micrometre (µm) (PM10) suspended in the atmosphere of 150 micrograms per cubic metre over a 24 hour averaging time, at a nuisance sensitive or commercial place downwind of the site, when monitored in accordance with AS3580.9.6 <i>'Ambient air— Particulate matter— Determination of suspended particulate PM10 high-volume sampler with size-selective inlet Gravimetric method'</i>.
(B3)	The release of noxious and / or offensive odour(s) or any other noxious or offensive airborne contaminant(s) resulting from the petroleum activity must not cause an environmental nuisance at any sensitive or commercial place.
(B4)	Where the holder of this authority has, at their cost, made alternative arrangements to the satisfaction of and with the written agreement of each person affected by nuisance air emissions at a sensitive or commercial place, then the requirements specified in conditions (B1)-(B3) will not apply at that sensitive or commercial place for the period of the alternative arrangements.
(B5)	As a minimum each written agreement of an alternative arrangement must state: a) the location of the sensitive or commercial place; b) the names of the affected persons;

	c) the nature of the alternative arrangement(s) (e.g. provision of alternative accommodation); and d) the period of the alternative arrangement(s).
Schedule C Water Management	
Condition number	Condition
(C1)	The holder of this authority must ensure that the petroleum activities do not result in the release of contaminants to waters, unless specifically authorised under this authority.
(C2)	Except as otherwise provided by the conditions of this authority, petroleum activities must be carried out by such reasonable and practicable means necessary to prevent the contact of incident rainfall and stormwater runoff with waste or other contaminants.
(C3)	All stormwater management and treatment devices used to manage and treat stormwater from the authorised activities must be maintained in proper and efficient working condition.
(C4)	The maintenance and cleaning of vehicles and other equipment or plant must be carried out in areas where the resultant contaminants are not to be released to any waters.
(C5)	The maintenance and cleaning of vehicles and other equipment or plant must be carried out in purpose built maintenance and cleaning facilities.
(C6)	A stormwater management system must be designed, implemented and maintained so that: a) erosion and sediment control structures minimise the potential for overland flow to enter areas along the pipeline in construction areas; b) erosion and sediment control structures are placed to minimise erosion of disturbed areas and prevent the contamination of any waters; and c) contaminated stormwater runoff, incident rainfall and leachate is collected; and treated, reused, or released in accordance with the conditions of this authority.
(C7)	All determinations of the quality of contaminants released must be made in accordance with methods prescribed in the latest edition of the Environmental Protection Agency Water Quality Sampling Manual, and carried out on samples that are representative.
Schedule D Noise Management	
Condition number	Condition
(D1)	Prior to undertaking petroleum activities that are likely to impact upon a sensitive or commercial place, the holder of this authority must investigate potential noise emissions from the proposed petroleum activities and determine if noise emissions are likely to exceed the limits set in Condition (D3).

(D2)	If noise emissions are likely to exceed the limits specified under Condition (D3), then the holder must take appropriate measures to either relocate the petroleum activity or incorporate noise abatement and / attenuation measures to mitigate those impacts. These measures must be in place prior to undertaking the proposed petroleum activity.																																																																																		
(D3)	Noise emitted from any aspect of petroleum activities must not exceed the noise levels, specified in the table below, at any sensitive place or commercial place, other than those owned by the holder of this authority.																																																																																		
(D4)	Schedule D — Table 1 — Noise limits <table><tr><th colspan="7">Sensitive place</th></tr><tr><th rowspan="2">Noise level dB(A) measured as:</th><th colspan="3">Monday to Saturday</th><th colspan="3">Sundays and public holidays</th></tr><tr><th>7am to 6pm</th><th>6pm to 10pm</th><th>10pm to 7am</th><th>9am to 6pm</th><th>6pm to 10pm</th><th>10pm to 9am</th></tr><tr><td>LA90, adj, 15 mins</td><td>lesser of bg+3 or 48</td><td>lesser of bg+0 or 40</td><td>lesser of bg+0 or 40</td><td>lesser of bg+0 or 40</td><td>lesser of bg+0 or 40</td><td>lesser of bg+0 or 40</td></tr><tr><td>LA10, adj, 15 mins</td><td>lesser of bg+5 or 50</td><td>lesser of bg+5 or 45</td><td>lesser of bg+0 or 40</td><td>lesser of bg+5 or 45</td><td>lesser of bg+5 or 40</td><td>lesser of bg+0 or 35</td></tr><tr><td>LA1, adj, 15 mins</td><td>lesser of bg+10 or 55</td><td>lesser of bg+10 or 50</td><td>lesser of bg+5 or 45</td><td>lesser of bg+10 or 50</td><td>lesser of bg+10 or 45</td><td>lesser of bg+5 or 40</td></tr><tr><th colspan="7">Commercial place</th></tr><tr><th rowspan="2">Noise level dB(A) measured as:</th><th colspan="3">Monday to Saturday</th><th colspan="3">Sundays and public holidays</th></tr><tr><th>7am to 6pm</th><th>6pm to 10pm</th><th>10pm to 7am</th><th>9am to 6pm</th><th>6pm to 10pm</th><th>10pm to 9am</th></tr><tr><td>LA90, adj, 15 mins</td><td>lesser of bg+5 or 50</td><td>lesser of bg+0 or 45</td><td>lesser of bg+0 or 40</td><td>lesser of bg+3 or 43</td><td>lesser of bg+0 or 40</td><td>lesser of bg+0 or 40</td></tr><tr><td>LA10, adj, 15 mins</td><td>lesser of bg+10 or 55</td><td>lesser of bg+10 or 50</td><td>lesser of bg+5 or 45</td><td>lesser of bg+10 or 50</td><td>lesser of bg+10 or 45</td><td>lesser of bg+5 or 40</td></tr><tr><td>LA1, adj, 15 mins</td><td>lesser of bg+15 or 60</td><td>lesser of bg+15 or 55</td><td>lesser of bg+10 or 50</td><td>lesser of bg+15 or 55</td><td>lesser of bg+15 or 50</td><td>lesser of bg+10 or 45</td></tr></table> • bg = background noise level • In the event that measured bg is less than 25 dB(A), then 25 dB(A) can be substituted for the measured level	Sensitive place							Noise level dB(A) measured as:	Monday to Saturday			Sundays and public holidays			7am to 6pm	6pm to 10pm	10pm to 7am	9am to 6pm	6pm to 10pm	10pm to 9am	LA90, adj, 15 mins	lesser of bg+3 or 48	lesser of bg+0 or 40	lesser of bg+0 or 40	lesser of bg+0 or 40	lesser of bg+0 or 40	lesser of bg+0 or 40	LA10, adj, 15 mins	lesser of bg+5 or 50	lesser of bg+5 or 45	lesser of bg+0 or 40	lesser of bg+5 or 45	lesser of bg+5 or 40	lesser of bg+0 or 35	LA1, adj, 15 mins	lesser of bg+10 or 55	lesser of bg+10 or 50	lesser of bg+5 or 45	lesser of bg+10 or 50	lesser of bg+10 or 45	lesser of bg+5 or 40	Commercial place							Noise level dB(A) measured as:	Monday to Saturday			Sundays and public holidays			7am to 6pm	6pm to 10pm	10pm to 7am	9am to 6pm	6pm to 10pm	10pm to 9am	LA90, adj, 15 mins	lesser of bg+5 or 50	lesser of bg+0 or 45	lesser of bg+0 or 40	lesser of bg+3 or 43	lesser of bg+0 or 40	lesser of bg+0 or 40	LA10, adj, 15 mins	lesser of bg+10 or 55	lesser of bg+10 or 50	lesser of bg+5 or 45	lesser of bg+10 or 50	lesser of bg+10 or 45	lesser of bg+5 or 40	LA1, adj, 15 mins	lesser of bg+15 or 60	lesser of bg+15 or 55	lesser of bg+10 or 50	lesser of bg+15 or 55	lesser of bg+15 or 50	lesser of bg+10 or 45
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	In the event of a complaint regarding noise from the petroleum activities at a sensitive place or commercial place, the holder of this authority must conduct an appropriate investigation and must implement remedial action, if the noise from the petroleum activities exceeds the noise limits at the sensitive place or commercial place in Table D1 — Noise Limits.
(D5)	The method of measurement and reporting of noise levels must comply with the latest edition of the Environmental Protection Agency's Noise Measurement Manual or the most recent version of AS1055 <i>Acoustics — Description and measurement of environmental noise</i> and the DERM Guidelines — <i>Assessment of Low Frequency Noise and Planning for Noise Control</i> .
(D6)	Where the holder of this authority has, at their cost, made alternative arrangements to the satisfaction of and with the written agreement of each person affected by nuisance noise emissions at a sensitive or commercial place, then the requirements specified in Table 1 — Noise Limits will not apply at that sensitive or commercial place for the period of the alternative arrangements.
(D7)	As a minimum each written agreement of an alternative arrangement must state: a) the location of the sensitive or commercial place; b) the names of the affected persons; c) the nature of the alternative arrangement(s) (e.g. provision of alternative accommodation); and d) the period of the alternative arrangement(s).
Schedule E Waste Management	
Condition number	Condition
(E1)	The holder of this authority must ensure that petroleum activities do not result in the release or likely release of a hazardous contaminant to land or waters.
(E2)	The holder of this authority must ensure that all general waste produced from the authorised petroleum activities is removed from the relevant petroleum authority and disposed of at a facility to accept such waste.
(E3)	Any spillage of hazardous waste or other contaminants that may cause environmental harm, must be effectively contained and/or cleaned up as quickly as practicable. Such spillage must not be cleaned up by hosing, or otherwise thereby releasing such waste or contaminants to any land or waters.
(E4)	All regulated waste removed from the site must be removed by a person who holds a current authority to transport such waste under the provisions of the <i>Environmental Protection Act 1994</i> and sent to a facility licensed to accept such waste.

(E5)	When regulated waste is removed from within the boundary of the operational land and transported by the holder of this authority, a record must be kept of the following: a) date of waste transport; b) quantity of waste removed and transported; c) type of waste removed and transported; d) route selected for transport of waste; e) quantity of waste delivered; and f) any incidents (e.g. spillage) that may have occurred on route.
(E6)	If a person removes regulated waste associated with activities within the operational land and disposes of such waste in a manner which is not authorised or is improper or unlawful then, as soon as practicable, notify the administering authority of all relevant facts, matters and circumstances known concerning the disposal.
(E7)	The holder of this authority must implement a Waste Management Plan compliant with the <i>Environmental Protection (Waste Management) Policy 2000</i>.
Schedule F Land Management	
Condition number	Condition
(F1)	The holder of this authority must: a) minimise disturbance to land in order to prevent land degradation; and b) ensure that for land that is to be significantly disturbed by petroleum activities (except in area of highly erosive soils), the top layer of the soil profile is removed; and i. stockpiled in a manner that will preserve its biological and chemical properties, and ii. used for rehabilitation purposes in accordance with condition (F13).
(F2)	The holder of this authority must: a) prevent or minimise disturbance to vegetation by petroleum activities; b) manage the effects of clearing to prevent the loss of biodiversity, reduction of ecological processes and land degradation.

(F3)	The holder of this authority must consider whether it is feasible to avoid clearing, and where viable alternatives exist, must not clear vegetation: a) in; or within 50 metres of, the high bank of a watercourse; b) in, or within 50 metres of, the static high water mark of wetlands, lakes or springs; c) in a way that isolates clumps or dissects corridors of vegetation; d) on slopes greater than 5%; e) on dispersible soils; and f) in existing or potential discharge areas.
(F4)	The holder of this authority must develop a Pest and Weed Management Plan (PWM Plan) prior to undertaking the authorised petroleum activities in order to minimise population growth and dispersal.
(F5)	The PWM Plan must address the following matters: a) Vehicle, plant and equipment inspection procedures; b) Vehicle, plant and equipment wash down procedures; c) Operation and maintenance of wash down facilities; d) Operation and movement of vehicles, plant and equipment throughout the relevant petroleum authority while the authorised petroleum activities are being carried out; e) Monitoring of pest and weed species; and f) Corrective actions that will be undertaken in the event that new pest and weed species are identified or existing populations proliferate because of the authorised petroleum activities.
(F6)	Unless otherwise approved under relevant legislation, the holder of this authority must not: a) excavate or place fill in a way that interferes with the flow of water in a watercourse; wetland, or spring, including; works that divert the course of flow of the water, or works that impound the water; b) undertake activities that take water from a watercourse, wetland or spring; c) undertake activities that take overland flow water using works that are mentioned as assessable development in a water resource plan under the <i>Water Act 2000</i>.

(F7)	Activities resulting in significant disturbance to the bed or banks of a watercourse or wetland, or a spring must: a) only be undertaken where necessary for the construction and/or maintenance of roads, tracks and pipelines that are essential for carrying out the authorised petroleum activities and no reasonable alternative location is feasible; and b) be no greater than the minimum area necessary for the purpose of the significant disturbance; and c) be designed and undertaken by an appropriately qualified person; and d) have rehabilitation commence immediately upon cessation of the works.
(F8)	Sediment control measures must be implemented to minimise any increase in water turbidity due to carrying out petroleum activities in the bed or banks of a watercourse or wetland, or a spring.
(F9)	Routine visual monitoring must be undertaken while carrying out petroleum activities in a watercourse, wetland or spring. If, due to the petroleum activities, water turbidity increases in the watercourse, wetland or spring outside contained areas, works must cease and the sediment control measures must be rectified before activities recommence.
(F10)	Progressive rehabilitation of disturbed areas must commence as soon as practicable following the completion of any construction or operational works associated with the authorised petroleum activities on the relevant petroleum authority.
(F11)	As soon as practicable and within 3 months at the end of petroleum activities that cause any significant disturbance to land, the holder of this authority must: a) investigate contaminated land status in accordance with <i>Environmental Protection Act 1994</i> requirements and the National Environment Protection (Site Assessment) Measure 1999 (NEPM) where land has been subject to contamination caused by petroleum activities authorised under this authority; and, b) on all significantly disturbed land, take all reasonable and practicable measures to: i. re-establish surface drainage lines; and ii. reinstate the top layer of the soil profile; and iii. promote the re-establishment of vegetation.

(F12)	All land significantly disturbed by petroleum activities must be rehabilitated to: a) a stable landform with a self-sustaining vegetation cover with same species and density of cover to that of the surrounding undisturbed areas; b) ensure that all land is reinstated to the pre-disturbed land use and suitability class; c) ensure that the maintenance requirements for rehabilitated land is no greater than that required for the land prior to its disturbance by petroleum activities; and d) ensure that the water quality of any residual void or water bodies constructed by petroleum activities meets criteria for subsequent uses and does not have potential to cause environmental harm.
(F13)	Maintenance of rehabilitated areas must take place to ensure and demonstrate: a) stability of landforms; b) erosion control measures remain effective; c) stormwater runoff and seepage from rehabilitated areas does not negatively affect the environmental values of any waters; d) plants show healthy growth and recruitment is occurring; and e) rehabilitated areas are free of any declared pest plants.
(F14)	Rehabilitation can be considered successful when the site can be managed for its designated land-use (either similar to that of surrounding undisturbed areas or as otherwise agreed in a written document with the landowner/holder and administering authority) without any greater management input than for other land in the area being used for a similar purpose and there is evidence that the rehabilitation has been successful for at least 3 years.
Schedule G Storage and Handling of Chemicals, Flammable and Combustible Substances	
Condition number	Condition
(G1)	All explosives, hazardous chemicals, corrosive substances, toxic substances, gases, dangerous goods, flammable and combustible liquids (including petroleum products and associated piping and infrastructure), must be stored and handled in accordance with the relevant Australian Standard where such is available.
(G2)	Notwithstanding the requirements of any Australian Standard, any liquids stored on site that have the potential to cause environmental harm must be stored in or serviced by an effective containment system that is impervious to the materials stored and managed to prevent the release of liquids to waters or land. Where no relevant Australian Standard is available, the following must be applied: a) storage tanks must be bunded so that the capacity and construction of the bund is sufficient to contain at least 110%

	of a single storage tank or 100% of the largest storage tank plus 10% of the second largest storage tank in multiple storage areas; and b) drum storages must be bunded so that the capacity and construction of the bund is sufficient to contain at least 25% of the maximum design storage volume within the bund.
(G3)	All containment systems must be designed to minimise rainfall collection within the system.
Schedule H Nature Conservation	
Condition number	Condition
(H1)	Notwithstanding any other condition of this authority, the holder of this authority must ensure that: a) petroleum activities are not conducted within a category A or B environmentally sensitive area; b) petroleum activities do not cause a significant disturbance within 1km of a category A environmentally sensitive area or within 500m of a category B environmentally sensitive area; c) petroleum activities are not conducted in a category C environmentally sensitive area without the written agreement from the relevant administering authority; d) if the relevant administering authority gives written permission to conduct petroleum activities in a category C environmentally sensitive area with conditions that are in conflict with the conditions of this authority — the holder must as a minimum comply with the conditions of this authority; and e) staff, contractors or agents carrying out petroleum activities on a petroleum authority are aware of the location of any relevant category A, B or C environmentally sensitive areas within the petroleum authority.

(H2)	Where no reasonable alternative exists, petroleum activities undertaken within an endangered regional ecosystem or the 500 m buffer zone of an endangered regional ecosystem, must be located according to the following order of preference: a) pre-existing areas of significant disturbance within the buffer zone; g) undisturbed areas more than 100 m from the ESA; h) undisturbed areas less than 100 m from the ESA; i) pre-existing areas of significant disturbance within the ESA; b) areas within the ESA of lower environmental value (eg. not of concern remnant vegetation or of concern remnant vegetation in a polygon mapped as containing endangered regional ecosystem and other ecosystems); and c) areas where clearing of an endangered regional ecosystem is unavoidable provided the clearing does not exceed 10% of a polygon mapped as an endangered regional ecosystem and all reasonable effort is made to minimise the area cleared and to avoid clearing mature trees.
(H3)	Condition (H2) does not authorise clearing, that is: a) more than 10% of a polygon mapped as an endangered regional ecosystem; b) greater than 6 metres in width for tracks that are necessary within an endangered regional ecosystem for production and exploration purposes; and c) greater than 12 metres in width for pipeline construction purposes that is necessary within an endangered regional ecosystem.
Schedule I Declared Wild Rivers	
Condition number	Condition
(I1)	If the petroleum authority is in or partly within a declared wild river area, or a moratorium is in place under the <i>Wild Rivers Act 2005</i>, the holder of this authority must ensure that petroleum activities within the (proposed) wild river area are conducted in accordance with the conditions in the wild river declaration for the area that state they are for petroleum activities.
Schedule J PPL91-Gas Pipeline	
Condition number	Condition
(J1)	All petroleum infrastructure (including buildings, structures, plant and equipment erected and/or used for the petroleum activities) authorised under this authority must be located within the PPL91 Licence Area identified in Appendix 2.

(J2)	The holder of this authority must decommission the gas pipelines and to a situation where ongoing, or potential environmental harm is prevented or minimised. As a minimum, the pipelines must be decommissioned such that: a) they no longer contain hazardous contaminants b) they are left in a stable condition c) all the above ground infrastructure is removed, and d) all areas disturbed by above ground infrastructure are rehabilitated in accordance with the requirements of this authority.																				
(J3)	Prior to the commencement of decommissioning or abandonment and rehabilitation activities the scope of work for decommissioning or abandonment and rehabilitation shall be developed and agreed to with the administering authority.																				
(J4)	The gas pipeline is located within the PPL91 petroleum authority as shown in Appendix 2 and defined by coordinates listed in Schedule J, Table 1 Location of the PPL91 pipeline corridor. Schedule J — Table 1 — Location of the PPL91 pipeline corridor <table><tr><th>Pipeline Licence No.</th><th>Location</th><th>Latitude</th><th>Longitude</th></tr><tr><td rowspan="4">- PPL91 -</td><td>Windibri CPP</td><td>-26.8764</td><td>150.3196</td></tr><tr><td>Windibri Gully Crossing</td><td>-26.8801</td><td>150.3217</td></tr><tr><td>Sandy Creek Crossing</td><td>-26.8837</td><td>150.3303</td></tr><tr><td>Matilda John Sales Connection Station (S01)</td><td>-26.9717</td><td>150.3320</td></tr></table>				Pipeline Licence No.	Location	Latitude	Longitude	- PPL91 -	Windibri CPP	-26.8764	150.3196	Windibri Gully Crossing	-26.8801	150.3217	Sandy Creek Crossing	-26.8837	150.3303	Matilda John Sales Connection Station (S01)	-26.9717	150.3320
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(J5)	The gas pipeline authorised under this authority possesses the design specifications as described in Schedule J, Table 2. Schedule J — Table 2 — PPL91 Pipeline Design Specifications																				

		- Design Element	- Design Specifications
		- Total Length	- 14.5 km
		- Diameter	- 250 mm
		- Design Element	- Design Specifications
		- Wall Thickness	- 4.2 mm
		- Pipeline Content	- Coal Seam Gas
		-Maximum Allowable Operating Pressure	- 10.2 Mpa (g)
		- Design Capacity	- 13.95 TJ/day
		-Standard Easement Width	- 20 metres
		- Design life	- 35 years
(J6)	The holder of this authority must provide the administering authority a copy of an operational plan for the authorised pipelines that contains the description and location of each pipeline facility within PPL91 and details how the holder will ensure that pipeline activities are undertaken to minimise the potential risk of causing environmental harm.		
(J7)	The holder of this authority must ensure that, where the current operational plan covers decommissioning and rehabilitation of the pipelines, those operations are consistent with conditions of this authority.		
Schedule K Monitoring Programs			
Condition number	Condition		

(K1)	The holder of this authority must: a) develop and implement a monitoring program that will demonstrate compliance with the conditions in this authority; and b) document the monitoring and inspections carried out under the program and any actions taken.
(K2)	The holder of this authority must ensure that a suitably qualified, experienced and competent person(s) conduct all monitoring required by this authority.
(K3)	Record, compile and keep for a minimum of five years all monitoring results required by this authority and make available for inspection all or any of these records upon request by the administering authority. Monitoring results relating to rehabilitation should be kept until the relevant petroleum tenure is surrendered.
(K4)	Any management or monitoring plans, systems or programs required to be developed and implemented by a condition of this authority must be reviewed for performance and amended if required on an annual basis.
(K5)	An annual monitoring report must be prepared each year and presented to the administering authority when requested. This report shall include but not be limited to: a) a summary of the previous twelve (12) months monitoring results obtained under any monitoring programs required under this authority and, a comparison of the previous twelve (12) months monitoring results to both this authority limits and to relevant prior results; and b) an evaluation/explanation of the data from any monitoring programs; and c) a summary of any record of quantities of releases required to be kept under this authority; and d) a summary of the record of equipment failures or events recorded for any site under this approval; and e) an outline of actions taken or proposed to minimise the environmental risk from any deficiency identified by the monitoring or recording programs.
Schedule L Community Issues	
Condition number	Condition
(L1)	When the administering authority advises the holder of a complaint alleging nuisance, the holder must investigate the complaint and advise the administering authority in writing of the action proposed or undertaken in relation to the complaint.
(L2)	When requested by the administering authority, the holder of this authority must undertake monitoring specified by the administering authority, within a reasonable and practicable timeframe nominated by the administering authority

	to investigate any complaint of environmental harm at any sensitive or commercial place.
(L3)	The results of the investigation (including an analysis and interpretation of the monitoring results) and abatement measures implemented must be provided to the administering authority within fourteen (14) days of completion of the investigation, or receipt of monitoring results, whichever is the latter.
(L4)	If monitoring in accordance with Condition (L2), indicates that emissions exceed the limits set by this authority or are causing nuisance, then the holder of this authority must: a) address the complaint including the use of appropriate dispute resolution if required; and/or b) as soon as practicable implement abatement or attenuation measures so that noise, dust, particulate or odour emissions from the authorised activities do not result in further environmental nuisance.
(L5)	The holder of this authority must maintain a record of complaints and incidents causing environmental harm, and actions taken in response to the complaint or incident.
(L6)	The holder of this authority must record the following details for all complaints received and provide this information to the administering authority on request: a) name, address and contact number for complainant; b) time and date of complaint; c) reasons for the complaint; d) investigations undertaken; e) conclusions formed; f) actions taken to resolve complaint; g) any abatement measures implemented; and h) person responsible for resolving the complaint.
(L7)	The holder of this authority must retain the record of complaints required by this condition for 5 years.
Schedule M Notification Procedures	
Condition number	Condition
(M1)	The holder of this authority must telephone the DERM's Pollution Hotline (1300 130372) or local office as soon as practicable after becoming aware of any release of contaminants not in accordance with the conditions of this authority or any event where environmental harm has been caused or may be threatened.

(M2)	Subject to condition (M1), the holder of this authority is required to report in the case of uncontained spills (including hydrocarbon, associated water or a mixtures of both) of the following volumes or kind: a) releases of any volume to water; and b) releases of volume greater than 200L to land; and c) releases of any volumes where potential serious or material environmental harm is considered to exist.
(M3)	The notification of emergencies or incidents as required by conditions number (M1 and M2) must include but not be limited to the following: a) the authority number and name of holder; b) the name and telephone number of the designated contact person; c) the location of the emergency or incident; d) the date and time of the release; e) the time the holder of the authority became aware of the emergency or incident; f) the estimated quantity and type of any substances involved in the incident; g) the actual or potential suspected cause of the release; h) a description of the effects of the incident including the environmental harm caused, threatened, or suspected to be caused by the release; i) any sampling conducted or proposed, relevant to the emergency or incident; and j) actions taken to prevent any further release and mitigate any environmental harm caused by the release.
(M4)	Within fourteen (14) days following the initial notification of an emergency or incident or receipt of monitoring results, whichever is the later, further written advice must be provided to the administering authority, including the following: a) results and interpretation of any samples taken and analysed; b) outcomes of actions taken at the time to prevent or minimise environmental harm; and c) proposed actions to prevent a recurrence of the emergency or incident.
(M5)	As soon as practicable, but not more than six (6) weeks following the conduct of any environmental monitoring performed in relation to the emergency or incident, which results in the release of contaminants not in accordance, or reasonably expected to be not in accordance with the conditions of this authority, written advice must be provided of the results of any such monitoring performed to the administering authority.

APPENDIX 1 DEFINITIONS

TERM	MEANING
Administering authority	Administering authority means - (a) for a matter, the administration and enforcement of which has been devolved to a local government under section 514 of the <i>Environmental Protection Act 1994</i> — the local government; or (b) for all other matters — the Chief Executive of the Environmental Protection Agency; or (c) another State Government Department, Authority, Storage Operator, Board or Trust, whose role is to administer provisions under other enacted legislation.
Authority	Means an environmental authority granted in relation to an environmentally relevant activity under the <i>Environmental Protection Act 1994</i> .
Associated water	Underground water taken from or interfered with from a petroleum well during the course of or resulting from carrying out petroleum activities. Associated water may be potable or suitable for stock purposes, or saline, high in fluoride, contain hydrocarbons, and/or is otherwise contaminated by a hazardous contaminant. It may be classified as a hazardous waste.
AS 2885	Australian Standard Pipelines — Gas and Liquid Petroleum (2007 or subsequent versions thereof)
Background noise level	Background noise level LA _{90,15min} means the A-weighted sound pressure level of the residual noise exceeded for 90% of a representative time period of not less than 15 minutes, using time weighting, 'F'.
Category A Environmentally Sensitive Area	Means any area listed in Section 25 of the <i>Environmental Protection Regulation 2008</i> .
Category B Environmentally Sensitive Area	Means any area listed in Section 26 of the <i>Environmental Protection Regulation 2008</i> .
Category C Environmentally Sensitive Area	Means any of the following areas: ○ Nature Refuges as defined under the <i>Nature Conservation Act 1992</i>; ○ Koala Habitat Areas as defined under the <i>Nature Conservation (Koala) Conservation Plan 2006</i>; ○ State Forests or Timber Reserves as defined under the <i>Forestry Act 1959</i>; ○ Declared catchment areas under the <i>Water Act 2000</i>; ○ Resources reserves under the <i>Nature Conservation Act 1992</i>; ○ An area identified as "Essential Habitat" or "Essential Regrowth Habitat" under 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>; or ○ Of Concern Regional Ecosystems identified in the database maintained by the Department of Environment and Resource Management called 'RE description database' containing Regional Ecosystem numbers and descriptions.
Competent person	A person with the demonstrated skill and knowledge required to carry out the task to a standard necessary for the reliance upon collected data or protection of the

	environment.
Commercial place	A work place used as an office or for business or commercial purposes, which is not part of the petroleum activity and does not include employees' accommodation or public roads.
Construction	Includes building a new dam or pipeline and modifying or lifting an existing dam or pipeline.
Dam	Means a structure that is designed to contain, divert or control flowable substances - including any substances that are thereby contained, diverted or controlled by that structure; but does <i>not</i> mean a fabricated or manufactured tank or container designed to a recognised standard. The flowable substances referred to in this context may have been, are, or could be flowable under any perceivable conditions; and thereby present a hazard as defined in this authority. In case there is any doubt, a levee or a bund is a dam.
Design plan	Is the documentation required to describe the physical dimensions of the pipeline, the materials and standards to be used for construction of the pipeline, and the procedures and criteria to be used for operating the pipeline. It will also include the decommissioning and rehabilitation objectives in terms of procedures, works and outcomes at the end of pipeline life. The documents must include design and investigation reports, specifications and certifications; and may include 'as constructed' drawings.
Contaminant	The <i>Environmental Protection Act 1994</i> defines, under Section 11, a contaminant as: (a) a gas, liquid or solid; or (b) an odour; or (c) an organism (whether alive or dead), including a virus; or (d) energy, including noise, heat, radioactivity and electromagnetic radiation; or (e) a combination of contaminants.
Discharge area	Discharge area is: (a) that part of the land surface where groundwater discharge produces a net movement of water out of the groundwater; and (b) identified by an assessment process consistent with the document: Salinity Management Handbook, Queensland Department of Natural Resources, 1997; or (c) identified by an approved salinity hazard map held by the Department of Environment and Resource Management.
Dispersible soils	Soils in which clay material disintegrates into particles less than 2 microns across. This can be observed within 24 hours when soil crumbs are submerged in distilled water.
Dissects corridors	Dissects corridors of vegetation means clearing vegetation that results in a break more than 50 metres wide across a corridor.
Environmental Management Plan	The environmental management plan is an environmental management document to be submitted during the application process for a level 1 environmental authority (petroleum activities).

Permit

Environmental authority EPPG00674213

Environmental nuisance	Environmental nuisance is unreasonable interference or likely interference with an environmental value caused by: (a) noise, dust, odour, light; or (b) an unhealthy, offensive or unsightly condition because of contamination; or (c) another way prescribed by regulation.
Environmentally sensitive area	Environmentally sensitive area (as determined from the DERM GIS data base) means a location, however large or small, that has environmental values that contribute to maintaining biological diversity and integrity, have intrinsic or attributed scientific, historical or cultural heritage value, or are important in providing amenity, harmony or sense of community.
Financial assurance	A security deposit, either cash or a bank guarantee, held by the administering authority to cover the potential costs of rehabilitating areas significantly disturbed by the petroleum activities.
Groundwater	Groundwater means subsurface water, generally saturating the soil or rock in which it occurs.
Hazard	In relation to a dam as defined in this authority, means the potential for environmental harm resulting from the collapse, or failure of the dam to perform its primary purpose of containing, diverting or controlling flowable substances.
Hazardous contaminant	A contaminant that, if improperly treated, stored, disposed of or otherwise managed, is likely to cause serious or material environmental harm because of: (a) its quantity, concentration, acute or chronic toxic effects, carcinogenicity, teratogenicity, mutagenicity, corrosiveness, explosiveness, radioactivity or flammability; or (d) its physical, chemical or infectious characteristics.
Infrastructure	Means water storage dams, well sites, pipelines, roads and tracks, buildings and other structures built for the purpose of petroleum activities.
Licensed waste disposal facility	A facility approved under a development approval and operated by a holder of a registration certificate for environmentally relevant activity item number 75 under Schedule 1 of the Environmental Protection Regulation 1998.
LA max, adj, T	LA max, adj, T is the adjusted average maximum A-weighted sound pressure level measured over a time period T. The maxima must be measured on a sound level meter with a frequency-weighting that corresponds to perceived loudness ("A" weighting) and the meter must be set to the "fast" response time-weighting. The measured values are to be adjusted upwards by 2 dB(A) to 5 dB(A) if the noise source has tonal characteristics. The measuring period must be in excess of five minutes. The arithmetic average of the adjusted maxima, after eliminating any extraneous noise peaks, is the measure used to characterise the noise environment. (This measure will generally be similar to a percent exceedance of 10% or less. Refer to Australian Standard AS1055.)
Lake	A natural or artificial body of water, either permanent or intermittent.

Land degradation	Land degradation includes the following: (a) soil erosion; (b) rising water tables; (d) the expression of salinity; (e) mass movement by gravity of soil or rock; (f) stream bank instability; and (g) a process that results in declining water quality.
Land use	Term to describe the selected final use of the land, which is planned to occur after the cessation of petroleum operations.
Level 2 petroleum activity	A Level 2 petroleum activity is a petroleum activity that, under section 20(1) of the EP Act is prescribed as a level 2 environmentally relevant activity.
Level 1 petroleum activity	A Level 1 petroleum activity is a petroleum activity that, under section 20(1) of the EP Act is prescribed as a Level 1 environmentally relevant activity.
Noise	Noise means a sound or vibration of any frequency, whether transmitted through air or any other physical medium.
Normal cubic metre (Nm3)	The volume of dry gaseous contaminant which occupies one cubic metre at a temperature of zero degrees Celsius and at an absolute pressure of 101.3 kilopascals.
Operational land	Means the land associated with the petroleum project for which this authority has been issued.
Petroleum activities	Petroleum activities means activities authorised to take place on land subject to a petroleum authority, including rehabilitation and decommissioning activities.
Petroleum authority	A petroleum authority is— (a) a 1923 Act petroleum tenure granted under the Petroleum Act 1923; or (b) a petroleum authority granted under the Petroleum and Gas (Production and Safety) Act 2004; or (c) a licence, permit, pipeline licence, primary licence, secondary licence or special prospecting authority granted under the Petroleum (Submerged Lands) Act 1982.
Petroleum project	A petroleum project is all activities carried out, or proposed to be carried out, under 1 or more of the following, in any combination, as a single integrated operation— (a) a 1923 Act petroleum tenure granted under the Petroleum Act 1923; (b) a petroleum authority granted under the <i>Petroleum and Gas (Production and Safety) Act 2004</i> ; (a) a licence, permit, pipeline licence, primary licence, secondary licence or special prospecting authority granted under the <i>Petroleum (Submerged Lands) Act 1982</i> .

Petroleum works site	A separate location on the area subject to a petroleum authority where petroleum activities are undertaken (e.g. a well site, seismic survey line, camp site, compressor site, evaporation pond etc).
Potential discharge area	Low lying parts of the landscape (relative to adjacent terrain) where groundwater movements are within 2-5m of the land surface and the landscape may be subject to upward movement of groundwater in the future.
Protected area	A protected area under the Nature Conservation Act 1992; or a) a marine park under the Marine Parks Act 1992; or b) a World Heritage Area.
Progressive rehabilitation	Rehabilitation (defined below) undertaken progressively or as a staged approach to rehabilitation as petroleum operations are ongoing.
Rehabilitation	The process of reshaping and revegetating land to restore it to a stable landform and in accordance with the acceptance criteria set out in this environmental authority and, where relevant, includes remediation of contaminated land.
Representative	A sample set which covers the variance in monitoring or other data either due to natural changes or operational phases of the petroleum activities.
Riverine area	Refers to the land confined to the flood flow channel of a watercourse.
Sedimentation pond	A bunded or excavated structure used to contain and settle waterborne sediment running off disturbed areas.
Self sustaining	An area of land that has been rehabilitated and has maintained the required acceptance criteria without human intervention for a period nominated by the administering authority.
Sensitive place	Sensitive place means any of the following places — (a) a dwelling; (b) a library, childcare centre, kindergarten, school, college, university or other educational institution; (c) a hospital, surgery or other medical institution; (d) a protected area or an area identified under a conservation plan as a critical habitat or an area of major interest, under the Nature Conservation Act 1992; (e) a marine park under the Marine Parks Act 1982; and (f) a park or garden that is open to the public (whether or not on payment of money) for use other than for sport or organised entertainment).
Sewage	Sewage is the effluent discharged from a sanitary appliance (i.e. sewage treatment works).

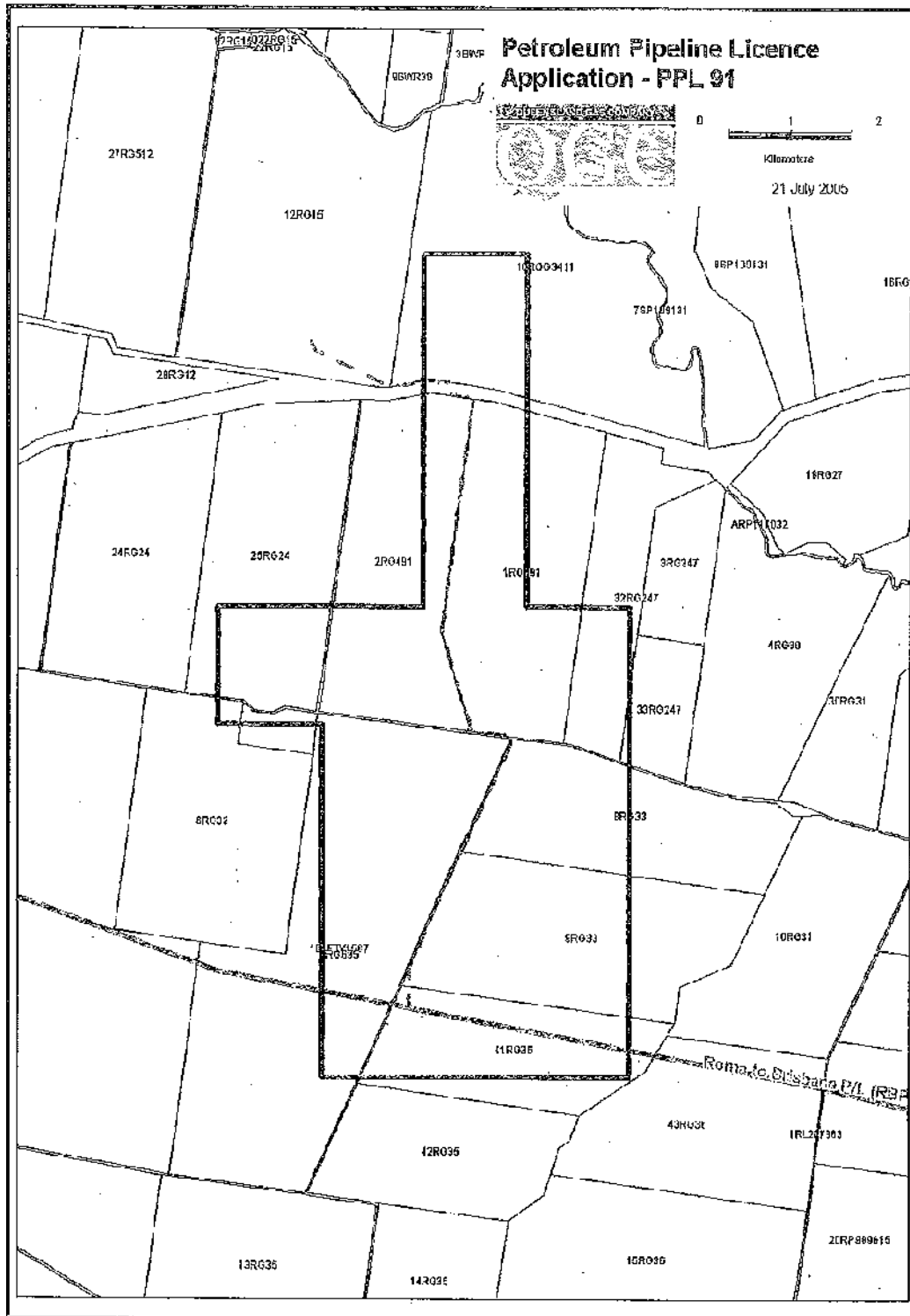
Significantly disturbed land	Significantly disturbed land and significant disturbance means land if: (a) it is contaminated land; or (b) it has been disturbed and human intervention is needed to rehabilitate it: i. to a state required under the relevant environmental authority; or iii. if the environmental authority does not require the land to be rehabilitated to a particular state — to its state immediately before the disturbance. - Examples of a disturbance to land: (a) areas where soil has been compacted, removed, covered, exposed or stockpiled; (b) areas where vegetation has been removed or destroyed to an extent where the land has been made susceptible to erosion; (c) areas where land use suitability or capability has been diminished; (d) areas within a watercourse, waterway, wetland or lake where petroleum activities occur and human intervention is necessary to restore or stabilise the disturbed area; (e) areas submerged by hazardous waste storage and dam walls in all cases; (f) areas under temporary infrastructure. Temporary infrastructure includes any infrastructure (roads, tracks, bridges, culverts, dams, bores, buildings, fixed machinery, hardstand areas, airstrips, helipads etc) which is to be removed after petroleum activities have ceased; or (g) areas where land has become contaminated land and a suitability statement has not been issued. - However, the following areas are not significantly disturbed: (a) areas off the petroleum authority (e.g. roads or tracks which provide access to the petroleum authority); (b) areas previously significantly disturbed which have been rehabilitated to the administering authority's satisfaction; (c) areas under permanent or long-term infrastructure; (d) areas that were significantly disturbed prior to the grant of the environmental authority, unless those areas are re-disturbed by the holder of the environmental authority during the term of the authority; (e) minor disturbances such as drill sumps and minor respreading of soil on GPS located seismic lines.
Stable	Means land form 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.

Suitably qualified and experienced person for dams	Means one who is a Registered Professional Engineer of Queensland (RPEQ) under the provisions of the Professional Engineers Act 1988, OR registered as a National Professional Engineer (NPER) with the Institution of Engineers Australia, OR holds equivalent professional qualifications to the satisfaction of the administering authority for the Act, in these 'relevant fields': (a) knowledge of engineering principles related to the structures, geomechanics, hydrology, hydraulics, chemistry and environmental impact of dams; and (b) at least a total of five years of suitable experience and demonstrated expertise in at least four of the following areas: - investigation, design or construction of dams; - operation and maintenance of dams; - geomechanics with particular emphasis stability, geology and geochemistry; - hydrology with particular reference to flooding, estimation of extreme storms, water management or meteorology; - hydraulics with particular reference to sediment transport and deposition, erosion control, beach processes; and - hydrogeology with particular reference to seepage, groundwater, solute transport processes and monitoring thereof; and - dam safety
Suitably qualified and experienced person for pipelines	Means one who is a Registered Professional Engineer of Queensland (RPEQ) under the provisions of the Professional Engineers Act 1988, OR registered as a National Professional Engineer (NPER) with the Institution of Engineers Australia, OR holds equivalent professional qualifications to the satisfaction of the administering authority for the Act, in these 'relevant fields' of designing, constructing, operating and decommissioning high pressure petroleum pipelines.
Top layer	The surface layer of a soil profile, which is usually 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 natural surface.
Void	Means any man-made, open excavation in the ground.
Watercourse	Watercourse means a river, creek or stream in which water flows permanently or intermittently in a visibly defined channel (natural, artificial or artificially improved) with: (a) continuous bed and banks; (b) an extended period of flow for some months after rain ceases, and (c) an adequacy of flow that sustains basic ecological processes and maintains biodiversity.
Waters	Waters includes river, stream, lake, lagoon, pond, swamp, wetland, unconfined surface water, unconfined water natural or artificial watercourse, bed and bank of any waters, dams, non-tidal or tidal waters (including the sea) or any part thereof, stormwater channel, stormwater drain, roadside gutter, stormwater run-off, and groundwater and any part thereof.
Waterway	A naturally occurring feature where surface water runoff normally collects, such as a clearly defined swale or gully, but only flows in response to a local rainfall event.

Wetland	An area of permanent or periodic/intermittent inundation, whether natural or artificial, 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 6m. Wetlands typically include areas such as lakes, swamps, marshes, estuaries or mudflats.
Wild river areas	Wild river areas are defined in the <i>Wild Rivers Act 2005</i> and may include the following— (a) high preservation areas; (b) preservation areas; (c) floodplain management areas; (d) subartesian management areas.

APPENDIX 2 - MAPS

Map 1 - Location of PPL91 Licence Area



Bank