



REPORT

Annual Environmental Return EPBC 2009/4976 Gas Transmission Pipeline

Q-LNG01-15-RP-0742

Australia Pacific LNG Upstream Project

EPBC 2009/4976 Gas Transmission Pipeline Annual Return 2014-2015

Revision	Date	Description	Originator	Checked	QA/Eng	Approved
0	02/02/2015	Issued for Use	 Simonetta Fickel	 Rachel Baird	Campbell Noble	 Cheryl Hopkins

Table of Contents

1.	Introduction	3
1.1.	Purpose and Scope	3
1.2.	Reporting Period	3
1.3.	Abbreviations	4
1.4.	Document references	4
2.	Annual Environmental Return	5
2.1.	Compliance	5
2.2.	Non-Compliances	5
3.	Reconciliation of Disturbance Limits	29

List of Tables

Table 1:	Abbreviations	4
Table 2:	Associated Document References	4
Table 3:	Compliance Table - EPBC 2009/4976	6
Table 4:	Clearing Impacts Reconciliation Statement	29

1. Introduction

The Australia Pacific LNG Project was referred to the Department of the Environment (the Department) on 6 July 2009 for a determination as to whether the proposal constituted a controlled action requiring approval under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act). Australia Pacific LNG made three separate referrals for different parts of the Project (EPBC 2009/4974; 2009/4976; 2009/4977). On 3 August 2009, the Minister determined that each action described in the referrals constituted a controlled action under the EPBC Act.

On 21 February 2011, Australia Pacific LNG received Approval from the Department to develop, construct, operate and decommission a high pressure gas transmission pipeline network to link coal seam gas fields to a proposed LNG facility on Curtis Island. The Approval (EPBC 2009/4976), for the pipeline, is the subject of this Report.

1.1. Purpose and Scope

The purpose of this Report is to report on compliance with specific conditions in EPBC 2009/4976.

Condition 54 of EPBC 2009/4976 requires an Annual Environmental Return to be produced to identify compliances, non-compliances, impacts and amendments relating to the conditions of approval and Matters of National Environmental Significance (MNES). This Report has been prepared in accordance with condition 54.

Condition 54 requires that:

The proponent must produce an Annual Environmental Return which:

- a. *Addresses compliance with these conditions;*
- b. *Records any unavoidable adverse impacts on MNES, mitigation measures applied to avoid adverse impacts on MNES; and any rehabilitation work undertaken in connection with any unavoidable adverse impact on MNES;*
- c. *Identifies all non-compliance with these conditions; and*
- d. *Identifies any amendments needed to plans to achieve compliance with these conditions.*

Additionally, in accordance with condition 55, the Annual Environmental Return will be published on the Project website within 20 calendar days of the anniversary date of the Approval.

1.2. Reporting Period

The reporting period relevant to this Report is 21 February 2014 to 20 February 2015 inclusive.

1.3. Abbreviations

Table 1: Abbreviations

Abbreviation	Description
AER	Annual Environmental Return
CMTTP	Management and Translocation Plan for <i>Cycas megacarpa</i>
Department	Department of the Environment (formerly Department of Sustainability, Environment, Water, Population and Communities)
EA	Environmental Authority
EIS	Environmental Impact Statement
EPBC Act	<i>Environment Protection and Biodiversity Conservation Act 1999</i>
EM Plan	Environmental Management Plan
HDD	Horizontal Directional Drilling
Ha	hectare
MNES	Matters of National Environmental Significance
ROW	Right of Way
OFI	Opportunities for improvement
PPL	Petroleum Pipeline Licence
QGC/QCLNG	Queensland Gas Company/ Queensland Curtis Liquefied Natural Gas
SDPWO Act	<i>State Development Public Works Organisation Act 1971</i>

1.4. Document references

Table 2: Associated Document References

Document Number	Title
Q-LNG01-15-MP-0118	<i>Cycas megacarpa</i> Management and Translocation Plan
Q-1801-15-MP-0002	Main Pipeline Environmental Management Plan
Q-1800-15-MP-0004	Operations Environmental Management Plan
Q-LNG01-15-MP-0074	Pipeline Threatened Fauna Management Plan
QCLNG-BG-03-ENV-PLN-000073	Dredge Management Plan

2. Annual Environmental Return

2.1. Compliance

Compliance with the conditions of EPBC Approval 2009/4976 is set out in Table 3. It is noted that construction activities associated with the pipeline and associated infrastructure were completed during the reporting period, and a progressive transfer of the project from construction phase to operational phase commenced, including restoration and rehabilitation. With the completion of the construction stage, a number of conditions were closed out.

2.2. Non-Compliances

No material environmental non-compliances have occurred on the Project under 2009/4976 during the reporting period of 21 February 2014 to 20 February 2015. Any potential environmental non-compliance identified in Table 3 has been reported to the Department.

Table 3: Compliance Table - EPBC 2009/4976

Condition No.	Condition	Status	Compliance Statement
Project Area			
1	The pipeline route and ROW is the area substantially depicted in the map at Attachment 1 and in the EIS and supplementary information provided pursuant to section 35(2) if the SDPWO Act 1971 (Qld).	Compliant / Closed	No updates since previous Annual Environmental Return (AER). The condition has been closed with the completion of the construction activities during the reporting period.
Environmental Management Plan (excluding the Narrows)			
2	The proponent must prepare an Environmental Management Plan to manage the impacts of construction, operation and decommissioning of the pipeline (other than in relation to the Narrows on listed threatened species and ecological communities, listed migratory species and values of the World and National Heritage-listed Great Barrier Reef.	Compliant	An Environmental Management Plan (EM Plan) was prepared for the pipeline during construction activities (Main Pipeline EM Plan Q-1801-15-MP-0002). The EM Plan is in the process of being amended (Q-1800-15-MP-0004) to cover the Operations Phase of the pipeline.
3	The Environmental Management Plan must include: <ul style="list-style-type: none"> a. Provisions for detailed pre-clearance surveys by a suitably qualified ecologist along the entire length of the ROW, in accordance with conditions 5 to 10; b. Measures to minimise native and riparian vegetation clearance and to minimize the impact on listed species, their habitat and ecological communities in accordance with management plans required for MNES under this approval; c. Measures to manage the impact of clearing on each listed species and ecological community in accordance with management plans required for MNES under this approval; d. Measures to regenerate vegetation on the ROW where natural regeneration is not successful; e. Measures to minimise impacts on fauna during pipeline construction including: <ul style="list-style-type: none"> i. Measures to protect MNES in the areas of the ROW 	Compliant	The EM Plan under condition 2 satisfies this condition.

Condition No.	Condition	Status	Compliance Statement
	<p>where trenching is being undertaken, including measures to exclude listed terrestrial fauna from gaining access to those areas of the ROW where trenching is currently being undertaken</p> <ul style="list-style-type: none"> ii. Mechanisms to allow fauna to escape from the pipeline trench iii. Daily morning surveys for trapped fauna iv. Mechanisms for a suitably qualified person to relocate fauna v. Record keeping for all survey, removal and relocation activities. <p>f. Machinery wash down procedures and ongoing monitoring to minimise the spread and establishment of weeds in the ROW. Monitoring of weed infestations within disturbed areas must occur at least monthly during construction and then quarterly for a period of two years after completion of construction. Appropriate weed control measures must be implemented. After the two-year period, the frequency of monitoring may be reconsidered by the proponent, based on success of control measures, the level of infestations and pipeline maintenance activities;</p> <p>g. Measures to manage and control feral animals that may spread due to the establishment of the ROW;</p> <p>h. Management of ignition sources during construction, maintenance and decommissioning of the pipeline to protect habitat values from wild fire;</p> <p>i. Measures for the management of acid sulfate soils.</p>		
4	The Environmental Management Plan must be submitted for the approval of the Minister. Commencement must not occur without approval. The approved plan must be implemented.	Compliant	<p>The original Main Pipeline EM Plan (Q-1801-15-MP-0002) was approved by the Minister 30/11/2011. Construction on the Main pipeline system commenced in July 2012.</p> <p>The EM Plan is currently being revised (Q-1800-15-MP-0004) and will be submitted to cover the Operations Phase of the pipeline.</p>

Condition No.	Condition	Status	Compliance Statement
Pre Clearance Surveys			
5	<p>Before the clearance of native vegetation in the pipeline ROW, the proponent must:</p> <ol style="list-style-type: none"> Undertake pre-clearance surveys for the presence of listed threatened species and migratory species, their habitat and listed ecological communities; Alternatively, where recent surveys have already been undertaken and those surveys meet the Department's requirements for survey for the relevant MNES, the proponent may elect to develop management plans based on those surveys in accordance with the requirements of condition 8. 	Compliant / Closed	<p>Pre-clearance surveys commenced in September 2011 and were completed during the 2013-2014 reporting period.</p> <p>The condition has been closed with the completion of the construction activities during this reporting period.</p>
6	<p>Pre-clearance surveys must:</p> <ol style="list-style-type: none"> For each listed species, be undertaken in accordance with the Department's survey guidelines in effect at the time of the survey; Be undertaken by a suitably qualified ecologist approved by the Department in writing; Document the survey methodology, results and significant findings in relation to MNES; Apply best practice site assessment and ecological survey methods appropriate for each listed threatened species, migratory species, their habitat and listed ecological communities. 	Compliant / Closed	<p>All pre-clearance surveys were conducted in accordance with the approval by the Department approved ecologists.</p> <p>The condition has been closed with the completion of the construction activities during the reporting period.</p>
7	<p>Pre-clearance survey reports (which document the methods used and the results obtained) must be published by the proponent, on its website and be provided to the Department on request.</p>	Compliant / Closed	<p>All pre-clearance surveys are published on the Australia Pacific LNG website (http://www.aplng.com.au/environment/pre-clearance-surveys).</p> <p>The condition has been closed with the completion of the</p>

Condition No.	Condition	Status	Compliance Statement
			construction activities during the reporting period.
8	<p>If a listed threatened species, migratory species or their habitat, or a listed ecological community is encountered during the surveys undertaken as required by condition 5 and is not specified in either condition 11 and 12, the proponent must submit a separate management plan for each species or ecological community to manage the unexpected impacts of clearing. In relation to each listed species or ecological community, each plan must address:</p> <ul style="list-style-type: none"> a. The relevant characteristics describing each species, species habitat or ecological community; b. A map of the location of species, species habitat or ecological community in proximity to the ROW; c. Measures that will be employed to avoid impact on the species, species habitat or ecological community; d. A quantification of the unavoidable impact (in hectares and/or individual specimens); e. Where impacts are unavoidable and a disturbance limit is not specified for the listed species or ecological community under condition 11, propose offsets to compensate for the impact on the population of the species, species habitat or the ecological community; f. Current legal status; g. Known distribution. <p>For listed species, each plan must also include:</p> <ul style="list-style-type: none"> a. Known species populations and their relationships within the region; b. Biology and reproduction; c. Preferred habitat and microhabitat including associations with geology, soils, landscape features and associations with other native fauna and/or ecological communities; d. Anticipated threats to MNES from pipeline construction, operation and decommissioning; 	Compliant / Closed	<p>No additional species /habitat were encountered in the reporting period.</p> <p>The condition has been closed with the completion of the construction activities during the reporting period.</p>

Condition No.	Condition	Status	Compliance Statement
	<ul style="list-style-type: none"> e. Management practices and methods to minimize impacts such as: <ul style="list-style-type: none"> i. Site rehabilitation timeframes, standards and methods ii. Use of sequential clearing to direct fauna away from impact zones iii. Re-establishment of native vegetation in linear infrastructure corridors iv. Handling practices for flora specimens v. Translocation and/or propagation practices and monitoring for translocation/propagation success vi. Monitoring methods including rehabilitation success and recovery. f. Reference to relevant conservation advice, recovery plans or other policies, practices, standards or guidelines relevant to MNES published or approved from time to time by the Department. 		
9	Each plan required under condition 8 must be submitted for the approval of the Minister. Commencement in the location covered by the management plan must not occur without approval. Each approved plan must be implemented.	Compliant / Closed	<p>The condition was not triggered during the reporting period.</p> <p>The condition has been closed with the completion of the construction activities during the reporting period.</p>
10	If, during construction a threatened species or migratory species or their habitat, or a listed ecological community is encountered and is not specified in the table at condition 11 or 12, the proponent must submit a separate management plan for each species or ecological community in accordance with condition 8 within 20 business days of encountering that MNES. Work must not continue at the construction site where the MNES is encountered until the relevant management plan has been approved. Each approved plan must be implemented.	Compliant / Closed	<p>No additional species /habitat were encountered in the reporting period.</p> <p>The condition has been closed with the completion of the construction activities during the reporting period.</p>
Disturbance Limits			
11	(a) The following maximum disturbance limits apply to any disturbances authorized for unavoidable impacts on listed threatened	Compliant /	(a) The disturbance limits were not exceeded during the reporting period.

Condition No.	Condition	Status	Compliance Statement																								
	<p>communities and potential habitat for listed threatened species or migratory species as a result of the construction, operation and decommissioning of the pipeline (and all associated activities).</p> <table border="1" data-bbox="353 411 1120 1260"> <thead> <tr> <th colspan="3" data-bbox="353 411 1120 478">Table 1: EPBC Listed threatened ecological communities</th> </tr> <tr> <th data-bbox="353 478 663 576">Ecological community</th> <th data-bbox="663 478 864 576">EPBC Status</th> <th data-bbox="864 478 1120 576">Disturbance Limit (ha)</th> </tr> </thead> <tbody> <tr> <td data-bbox="353 576 663 708">Brigalow (<i>Acacia harpophylla</i> dominant and co-dominant)</td> <td data-bbox="663 576 864 708">Endangered</td> <td data-bbox="864 576 1120 708">5.41</td> </tr> <tr> <td data-bbox="353 708 663 868">Semi-evergreen vine thickets of the Brigalow Belt (North and South) and Nandewar Bioregions</td> <td data-bbox="663 708 864 868">Endangered</td> <td data-bbox="864 708 1120 868">0.26</td> </tr> <tr> <th data-bbox="353 868 663 965">Species</th> <th data-bbox="663 868 864 965">EPBC Status</th> <th data-bbox="864 868 1120 965">Disturbance Limit (ha)</th> </tr> <tr> <td data-bbox="353 965 663 1062"><i>Cycas megacarpa</i> (Large-fruited Zamia)</td> <td data-bbox="663 965 864 1062">Endangered</td> <td data-bbox="864 965 1120 1062">470 individuals</td> </tr> <tr> <td data-bbox="353 1062 663 1160"><i>Cadellia pentastylis</i> (Ooline)</td> <td data-bbox="663 1062 864 1160">Vulnerable</td> <td data-bbox="864 1062 1120 1160">10 individuals</td> </tr> <tr> <td data-bbox="353 1160 663 1260"><i>Xeromys myoides</i> (Water Mouse)</td> <td data-bbox="663 1160 864 1260">Vulnerable</td> <td data-bbox="864 1160 1120 1260">15.6</td> </tr> </tbody> </table> <p>(b) The proponent must prepare a reconciliation statement of impacts against the agreed limit of disturbance, as defined in condition 11(a). It must be updated by the proponent every 12 months from commencement until construction is complete.</p>	Table 1: EPBC Listed threatened ecological communities			Ecological community	EPBC Status	Disturbance Limit (ha)	Brigalow (<i>Acacia harpophylla</i> dominant and co-dominant)	Endangered	5.41	Semi-evergreen vine thickets of the Brigalow Belt (North and South) and Nandewar Bioregions	Endangered	0.26	Species	EPBC Status	Disturbance Limit (ha)	<i>Cycas megacarpa</i> (Large-fruited Zamia)	Endangered	470 individuals	<i>Cadellia pentastylis</i> (Ooline)	Vulnerable	10 individuals	<i>Xeromys myoides</i> (Water Mouse)	Vulnerable	15.6	Closed	(b) Disturbance activities were completed at the end of last reporting period. No changes were made to the reconciliation statement provided in previous AER, refer to Table 4 of this report.
Table 1: EPBC Listed threatened ecological communities																											
Ecological community	EPBC Status	Disturbance Limit (ha)																									
Brigalow (<i>Acacia harpophylla</i> dominant and co-dominant)	Endangered	5.41																									
Semi-evergreen vine thickets of the Brigalow Belt (North and South) and Nandewar Bioregions	Endangered	0.26																									
Species	EPBC Status	Disturbance Limit (ha)																									
<i>Cycas megacarpa</i> (Large-fruited Zamia)	Endangered	470 individuals																									
<i>Cadellia pentastylis</i> (Ooline)	Vulnerable	10 individuals																									
<i>Xeromys myoides</i> (Water Mouse)	Vulnerable	15.6																									

Condition No.	Condition	Status	Compliance Statement																												
12	<p>The proponent must prepare a management plan for each species in the table below. Each plan must be prepared in accordance with the requirements of condition 8.</p> <table border="1" data-bbox="353 432 1120 1410"> <thead> <tr> <th colspan="2" data-bbox="353 432 1120 528">Table 2: Species management plans required before commencement</th> </tr> <tr> <th data-bbox="353 528 907 592">Listed flora species</th> <th data-bbox="907 528 1120 592">EPBC Act Status</th> </tr> </thead> <tbody> <tr> <td data-bbox="353 592 907 655"><i>Philothea sporadic</i></td> <td data-bbox="907 592 1120 655">Vulnerable</td> </tr> <tr> <td data-bbox="353 655 907 719"><i>Cadellia pentastylis</i> (Ooline)</td> <td data-bbox="907 655 1120 719">Vulnerable</td> </tr> <tr> <td data-bbox="353 719 907 783"><i>Cupaniopsis shirleyana</i> (Wedge-leaf Tuckeroo)</td> <td data-bbox="907 719 1120 783">Vulnerable</td> </tr> <tr> <td data-bbox="353 783 907 847"><i>Bothriochloa biloba</i> (Lobed Blue-grass)</td> <td data-bbox="907 783 1120 847">Vulnerable</td> </tr> <tr> <td data-bbox="353 847 907 951"><i>Polianthion minutiflorum</i> (Small-flowered polianthion)</td> <td data-bbox="907 847 1120 951">Vulnerable</td> </tr> <tr> <td data-bbox="353 951 907 1015"><i>Eucalyptus virens</i> (Shiny-leaved Ironbark)</td> <td data-bbox="907 951 1120 1015">Vulnerable</td> </tr> <tr> <td data-bbox="353 1015 907 1078">Quassia bidwillii (Quassia)</td> <td data-bbox="907 1015 1120 1078">Vulnerable</td> </tr> <tr> <td data-bbox="353 1078 907 1142"><i>Tylophora linearis</i> (Slender tylophora)</td> <td data-bbox="907 1078 1120 1142">Endangered</td> </tr> <tr> <td data-bbox="353 1142 907 1206"><i>Westringia parvifolia</i> (Small-leaved westringia)</td> <td data-bbox="907 1142 1120 1206">Vulnerable</td> </tr> <tr> <th data-bbox="353 1206 907 1286">Listed fauna species</th> <th data-bbox="907 1206 1120 1286">EPBC Act Status</th> </tr> <tr> <td data-bbox="353 1286 907 1350"><i>Paradelma orientalis</i> (Brigalow Scaly-foot)</td> <td data-bbox="907 1286 1120 1350">Vulnerable</td> </tr> <tr> <td data-bbox="353 1350 907 1410"><i>Furina dunmalli</i> (Dunmall's Snake)</td> <td data-bbox="907 1350 1120 1410">Vulnerable</td> </tr> </tbody> </table>	Table 2: Species management plans required before commencement		Listed flora species	EPBC Act Status	<i>Philothea sporadic</i>	Vulnerable	<i>Cadellia pentastylis</i> (Ooline)	Vulnerable	<i>Cupaniopsis shirleyana</i> (Wedge-leaf Tuckeroo)	Vulnerable	<i>Bothriochloa biloba</i> (Lobed Blue-grass)	Vulnerable	<i>Polianthion minutiflorum</i> (Small-flowered polianthion)	Vulnerable	<i>Eucalyptus virens</i> (Shiny-leaved Ironbark)	Vulnerable	Quassia bidwillii (Quassia)	Vulnerable	<i>Tylophora linearis</i> (Slender tylophora)	Endangered	<i>Westringia parvifolia</i> (Small-leaved westringia)	Vulnerable	Listed fauna species	EPBC Act Status	<i>Paradelma orientalis</i> (Brigalow Scaly-foot)	Vulnerable	<i>Furina dunmalli</i> (Dunmall's Snake)	Vulnerable	Compliant / Closed	<p>As reported in the previous AER, the Species Management Plans were prepared in accordance with the condition.</p> <p>The condition has been closed with the completion of the construction activities during the reporting period.</p>
Table 2: Species management plans required before commencement																															
Listed flora species	EPBC Act Status																														
<i>Philothea sporadic</i>	Vulnerable																														
<i>Cadellia pentastylis</i> (Ooline)	Vulnerable																														
<i>Cupaniopsis shirleyana</i> (Wedge-leaf Tuckeroo)	Vulnerable																														
<i>Bothriochloa biloba</i> (Lobed Blue-grass)	Vulnerable																														
<i>Polianthion minutiflorum</i> (Small-flowered polianthion)	Vulnerable																														
<i>Eucalyptus virens</i> (Shiny-leaved Ironbark)	Vulnerable																														
Quassia bidwillii (Quassia)	Vulnerable																														
<i>Tylophora linearis</i> (Slender tylophora)	Endangered																														
<i>Westringia parvifolia</i> (Small-leaved westringia)	Vulnerable																														
Listed fauna species	EPBC Act Status																														
<i>Paradelma orientalis</i> (Brigalow Scaly-foot)	Vulnerable																														
<i>Furina dunmalli</i> (Dunmall's Snake)	Vulnerable																														

Condition No.	Condition	Status	Compliance Statement														
	<table border="1"> <tr> <td><i>Egernia rugosa</i> (Yakka Skink)</td> <td>Vulnerable</td> </tr> <tr> <td><i>Geophaps scripta scripta</i> (Squatter pigeon - southern)</td> <td>Vulnerable</td> </tr> <tr> <td><i>Nyctophilus timoriensis</i> (Eastern Long-eared Bat)</td> <td>Vulnerable</td> </tr> <tr> <td><i>Chalinolobus dwyeri</i> (Large-eared Pied Bat)</td> <td>Vulnerable</td> </tr> <tr> <td><i>Xeromys myoides</i> (Water Mouse)</td> <td>Vulnerable</td> </tr> <tr> <td><i>Delma torquate</i> (Collared Delma)</td> <td>Vulnerable</td> </tr> <tr> <td><i>Denisonia maculate</i> (Ornamental Snake)</td> <td>Vulnerable</td> </tr> </table>	<i>Egernia rugosa</i> (Yakka Skink)	Vulnerable	<i>Geophaps scripta scripta</i> (Squatter pigeon - southern)	Vulnerable	<i>Nyctophilus timoriensis</i> (Eastern Long-eared Bat)	Vulnerable	<i>Chalinolobus dwyeri</i> (Large-eared Pied Bat)	Vulnerable	<i>Xeromys myoides</i> (Water Mouse)	Vulnerable	<i>Delma torquate</i> (Collared Delma)	Vulnerable	<i>Denisonia maculate</i> (Ornamental Snake)	Vulnerable		
<i>Egernia rugosa</i> (Yakka Skink)	Vulnerable																
<i>Geophaps scripta scripta</i> (Squatter pigeon - southern)	Vulnerable																
<i>Nyctophilus timoriensis</i> (Eastern Long-eared Bat)	Vulnerable																
<i>Chalinolobus dwyeri</i> (Large-eared Pied Bat)	Vulnerable																
<i>Xeromys myoides</i> (Water Mouse)	Vulnerable																
<i>Delma torquate</i> (Collared Delma)	Vulnerable																
<i>Denisonia maculate</i> (Ornamental Snake)	Vulnerable																
13	Each plan must be submitted for the approval of the Minister. Commencement in the location covered by the management plan must not occur without approval. Each approved plan must be implemented.	Compliant / Closed	<p>Activities commenced upon receipt of approval. No update since previous AER.</p> <p>The condition has been closed with the completion of the construction activities during the reporting period.</p>														
14	Disturbance of vegetation related to the construction and maintenance of the pipeline must be confined to the ROW. Any proposed siting of construction camps, vehicle access tracks, extra workspaces and pipe laydown areas outside of the ROW during construction must be undertaken so as to minimise potential adverse impacts on MNES.	Compliant / Closed	<p>No non-compliances were identified.</p> <p>The condition has been closed with the completion of the construction activities during the reporting period.</p>														
Offsets																	
	<i>Cycas megacarpa</i>																
15	To offset the unavoidable impacts to <i>Cycas megacarpa</i> the proponent	Compliant	Extensions have been granted to accommodate delays														

Condition No.	Condition	Status	Compliance Statement
	<p>must:</p> <ul style="list-style-type: none"> a. legally protect the environmental values of an area of at least 141 ha as an offset (the "offset area") for receiving no less than 1,800 and up to 2,820 translocation and propagated individuals (based on 1:6 ratio of the number of <i>Cycas megacarpa</i> individuals disturbed) by: <ul style="list-style-type: none"> i. within 44 months of the date of this approval: <ul style="list-style-type: none"> I) implementing measures to secure a legal interest in a suitable offset area; II) implementing measures to maintain and improve the ecological condition of the offset area including control and management of weeds, fire, feral animals, access and grazing; and III) implementing measures to protect the existing <i>Cycas magacarpa</i> population within offset area; and ii) within 56 months of the date of this approval; securing the offset area to ensure that it is protected inperpetuity; b. identify alternative recruitment methods if it is considered unlikely that translocation and propagation will be successful; c. notify the Department in writing of the acquisition or transfer of ownership of the area identified in condition 15(a) within one month of securing the land; d. if the proponent proposes any action within a proposed offset area, other than actions related to managing that area as an offset property, approval must be obtained, in writing from the Department. In seeking Departmental approval the proponent must provide a detailed assessment of the proposed action including a map identifying where the action is proposed to take place and an assessment of all associated adverse impacts on MNES. If the Department agrees to the action within the proposed offset site, the area identified for the action must be excised from the proposed offset and alternative offsets secured of equal or greater environmental 		<p>encountered in securing an offset site. Condition 15(a) was amended on 30 April 2014. This allows Australia Pacific LNG to secure a <i>Cycas megacarpa</i> offset site by 21 October 2015.</p> <p>In July 2014, access to the recipient site was secured through the execution of the Offset Agreement with the Inverness landholder.</p> <p>In September 2014, Origin successfully completed the second phase of the cycad translocation program with the planting of 263 cycads (<i>Cycas megacarpa</i>) salvaged from the Australia Pacific LNG pipeline right of way to nearby private land which will be protected by a voluntary declaration under the <i>Vegetation Management Act 1999</i> (to be lodged at the end of February 2015). The Department was notified of these measures on 16 September 2014.</p>

Condition No.	Condition	Status	Compliance Statement
	<p>value in relation to the impacted MNES;</p> <p>e. demonstrate that the measures for securing and managing the offset will ensure that the offset is protected in perpetuity.</p>		
	<i>Cycas megacarpa</i> management plan		
16	The proponent must prepare a <i>Cycas megacarpa</i> Management Plan in consultation with an expert approved by the Department in writing.	Compliant / Closed	The <i>Cycas megacarpa</i> Management and Translocation Plan (CMTP) (Q-LNG01-15-MP-0118) was initially submitted in December 2011. The CMTP was approved on 31 August 2012.
17	<p>The <i>Cycas megacarpa</i> management plan must include:</p> <p>f. Measures to ensure all <i>Cycas megacarpa</i> within the ROW are avoided. If avoidance is not possible, individual plants must be removed and kept offsite and replanted in the same location, or alternatively translocation. Where it can be demonstrated that removal and translocation of individuals is unlikely to succeed, translocation may be substituted by establishing propagated individuals;</p> <p>g. Measures to propagate and plant <i>Cycas megacarpa</i> individuals removed or impacted by construction activities to maintain a population of no less than 1,800 and up to 2,820 individuals (based on a 1:6 ratio of the number of <i>Cycas megacarpa</i> individuals disturbed) within the offset site required by condition 15(a).</p> <p>h. A detailed methodology for translocation, propagation and planting, including a map of the location of the offset site;</p> <p>i. Details of funding required to secure, maintain and enhance the values of the offset site in perpetuity;</p> <p>j. Details of a suitably qualified person to undertake translocation, propagation and planting;</p> <p>k. Details of the erosion and sediment control measures to be implemented in the ROW in the Callide and Calliope Ranges;</p>	Compliant	As a result of the 30 April 2014 variation of condition 15, the CMTP will be updated prior to translocation of <i>Cycas megacarpa</i> to the new offset site.

Condition No.	Condition	Status	Compliance Statement
	<ul style="list-style-type: none"> I. Measures to rehabilitate the ROW in the Callide and Calliope Ranges; m. Measures for the control and management of weeds, fire, feral animals, access and grazing in translocation sites; n. Measures for management, maintenance and protection of the population of <i>Cycas megacarpa</i> individuals in the offset site for a period of five years following the final planting; o. Details of monitoring practices to assess the success of proposed management regimes of the offset; p. Performance measures, reporting requirements, trigger levels for corrective actions and identification of those actions to be taken to ensure performance measures are met. 		
18	The <i>Cycas megacarpa</i> Management Plan must be submitted for the approval of the Minister. Commencement in the location covered by the management plan must not occur without approval. Each approved plan must be implemented.	Compliant	The CMTP was amended during the reporting period a number of times. Approval of the latest revision (number 8) was obtained on 26 November 2014.
Migratory Species			
19	If a bundled pipeline crossing of the Narrows is not pursued then to offset the unavoidable impacts to listed migratory birds within the ROW at the Kangaroo Island Wetlands west of the Narrows, the proponent must contribute at least \$250,000 to the Gladstone Port Corporation's migratory bird research study required by the conditions of the Gladstone Western Basin Dredging and Disposal Project (EPBC 2009/4904).	Not triggered	The condition is not applicable as a bundled pipeline crossing of the Narrows was undertaken.
The Narrows crossing			
20	<p>The proponent must prepare an Environmental Management Plan for the crossing of the Narrows. This must include:</p> <ul style="list-style-type: none"> a. If the crossing is undertaken concurrently with the construction of one or more additional gas transmission 	Compliant / Closed	<p>As reported in the previous AER, the Environmental Management Plans were prepared in accordance with the condition.</p> <p>The condition has been closed with the completion of the</p>

Condition No.	Condition	Status	Compliance Statement
	<p>pipelines (a bundled crossing):</p> <ul style="list-style-type: none"> i. The roles and responsibilities of each party involved in the bundled crossing ii. Details of the final pipeline route, engineering design and construction methodology, including details of the total number of gas transmission pipes including any pipelines for water supply and/or sewerage iii. Potential impacts from the construction of the pipeline on listed threatened species, ecological communities, migratory species and World and National Heritage-listed values in the Great Barrier Reef iv. Mitigation measures to reduce impacts on listed threatened species, ecological communities, migratory species and World and National Heritage-listed values in the Great Barrier Reef v. Proposed offset measures to compensate for unavoidable impacts on listed threatened species and ecological communities, listed migratory species and World and National Heritage-listed values in the Great Barrier Reef vi. Measures for the management of acid sulfate soils (both potential and actual) vii. Measures for ongoing maintenance and decommissioning of the pipelines; or <p>If the proponent does not proceed in a bundled crossing:</p> <ul style="list-style-type: none"> b. A construction method which, in the opinion of the Minister, will result in minimal surface disturbance to the Kangaroo Island Wetlands and minimal disturbance to the area of the estuary of the Narrows (preferably achieved by HDD or tunnelling); <ul style="list-style-type: none"> i. Details of the final pipeline route, design and construction methodology including details of the inclusion of pipes for water supply and sewerage; ii. Potential impacts from the construction of the pipeline on listed threatened species, ecological communities, 		<p>construction activities during the reporting period.</p>

Condition No.	Condition	Status	Compliance Statement
	<p>migratory species and World and National Heritage-listed values in the Great Barrier Reef;</p> <p>iii. Mitigation measures to reduce impacts on listed threatened species, ecological communities, migratory species and World and National Heritage-listed values in the Great Barrier Reef</p> <p>iv. Proposed offset measures to compensate for unavoidable impacts on listed threatened species and ecological communities, listed migratory species and World and National Heritage-listed values in the Great Barrier Reef</p> <p>v. Measures for the management of acid sulfate soils (both potential and actual)</p> <p>vi. Measures for ongoing maintenance and decommissioning of the pipelines.</p>		
21	The Environmental Management Plan must be submitted for the approval of the Minister. Commencement in the location covered by the management plan must not occur without approval. Each approved plan must be implemented.	Compliant / Closed	<p>Construction commenced upon receipt of approval. No update since previous AER.</p> <p>The condition has been closed with the completion of the construction activities during the reporting period.</p>
22	If the pipeline construction involves dredging to be undertaken by the proponent under the approval to which these conditions are attached, the proponent must prepare a Dredge Management Plan.	Compliant / Closed	<p>Dredging relating to the Australia Pacific LNG Project was managed by QGC in accordance with their Dredge Management Plan (QCLNG-BG-03-ENV-PLN-000073), under the Narrows Crossing Co-Operation Deed between QCLNG Pipeline Pty Ltd and Australia Pacific LNG Gladstone Pipeline Pty Ltd.</p> <p>The condition has been closed with the completion of the construction activities during the reporting period.</p>
23	<p>The Dredge Management Plan required under these conditions must include:</p> <p>a. Details of dredging methods, planned commencement, duration and frequency of dredging;</p> <p>b. Identification of areas of potentially impacted seagrass habitat and their environmental tolerances;</p>	Compliant / Closed	The Department confirmed compliance with this condition in their letter dated 13 September 2012.

Condition No.	Condition	Status	Compliance Statement
	<ul style="list-style-type: none"> c. Site specific water quality objectives for the designated habitats as a guideline for habitat protection and that are in accordance with the National Water Quality Management Strategy including the Australia and New Zealand Guidelines for Fresh and Marine Water Quality, the Australian Guidelines for Water Quality Monitoring and Reporting, the Great Barrier Reef Water Quality Guidelines and the Queensland Water Quality Guidelines; d. Measures to refine the plume modelling data presented in the proponent's EIS; e. Mitigation measures and controls for the dredging and spoil disposal activities; f. Triggers for initiating adaptive management and potential remediation measures; g. Monitoring of: <ul style="list-style-type: none"> i. Potential impacts of dredging on seagrass including but not limited to turbidity and light attenuation; ii. The triggers established under condition 23(f) iii. The long term impacts of the action h. Options, linked to the triggers established under condition 23(f), for adaptively managing the action - including options for varying the timing and location of dredging and spoil disposal activities; i. Details for monitoring of dredging activities, including timing and variables measured such as turbidity and light attenuation in a format as directed by the Department to allow validation of other modelling of dredging impacts relating to the Port of Gladstone; j. Measures to minimize the impact on listed migratory birds from noise associated with the construction activities; k. Measures to prevent and respond to the introduction of marine pest species; l. Measures to protect Dugongs and listed turtle including the use of turtle excluder devices; m. Details of dredge spoil placement; 		

Condition No.	Condition	Status	Compliance Statement
	n. Provisions to sample and analyse dredge spoil composition.		
24	The Dredge Management Plan must be submitted for the approval of the Minister. Commencement in the location covered by the management plan must not occur without approval. Each approved plan must be implemented.	Compliant / Closed	The Department approved the Dredge Management Plan (QCLNG-BG-03-ENV-PLN-000073) on 7 August 2012 and confirmed compliance with this condition in their letter dated 13 September 2012. The condition has been closed out with the completion of the construction activities during the reporting period.
Location of pipeline (Callide range)			
25	East of the Callide Range, the proponent must locate the pipeline within the Callide Infrastructure Corridor State Development Area substantially as indicated in the map at Attachment 1.	Compliant / Closed	The main pipeline is located within the Callide Infrastructure Corridor State Development Area in accordance with the approval of a Material Change of Use of the premises issued by the Coordinator General on 24 August 2012. The condition has been closed with the completion of the construction activities during the reporting period.
Water Crossings			
26	Where reasonably possible horizontal directional drilling (HDD) must be used for major waterway crossings, including: <ul style="list-style-type: none"> a. This within the Dawson and Calliope River catchments and any water crossing within the known distribution of the Fitzroy River Turtle (<i>Rheodytes leukops</i>) and Murray Cod (<i>Maccullochella peelii</i>). Pipeline construction across waterways must not take place during the nesting and breeding season of the Fitzroy River Turtle; b. Humpie and Targinie Creeks. 	Compliant / Closed	HDD has been utilised to cross Humpie and Targinie Creeks under the Narrows Crossing Co-Operation Deed between QCLNG Pipeline Pty Ltd and Australia Pacific LNG Gladstone Pipeline Pty Ltd. The condition has been closed with the completion of the construction activities during the reporting period.
27	Trenchless techniques are not required in dry creek beds within the known distribution of the Fitzroy River Turtle (<i>Rheodytes leukops</i>) and Murray Cod (<i>Maccullochella peelii</i>) where the distance to the nearest	Compliant / Closed	No update since previous AER. The condition has been closed with the completion of the

Condition No.	Condition	Status	Compliance Statement
	water is sufficient to buffer any potential impacts resulting from the crossing technique or where the aquatic assessment has identified that MNES values can be protected through alternative construction methods.		construction activities during the reporting period.
28	<p>The proponent must prepare an Aquatic Values Management Plan. This plan must include:</p> <ul style="list-style-type: none"> a. A detailed assessment of aquatic values, including animal breeding locations for listed threatened and migratory species within the ROW; b. Measures to minimise impacts on listed riparian, aquatic and water dependent flora and fauna; c. Measures to minimise erosion and sediment impacts to waterways; d. Measures to maintain water quality and water flow requirements, including treatment and disposal methods for hydrostatic test water; e. Site specific mitigation measures for any potential impacts from construction and operation of the pipeline on listed threatened species, including but not limited to the Fitzroy River Turtle (including the use of shallow turbid pools); f. Details of the MNES survey of the site where the pipeline will cross Cockatoo Creek. To avoid impacts to the <i>Eriocaulon carsonii</i> (Salt Pipewort), the requirements for the Aquatic Values Management Plan (a) to (e) above should be presented separately for Cockatoo Creek. 	Compliant / Closed	<p>As reported in the previous AER, the Aquatic Values Management Plan was prepared in accordance with the condition.</p> <p>The condition has been closed with the completion of the construction activities during the reporting period.</p>
29	The Aquatic Values Management Plan must be approved in writing by the Minister. Commencement in the location covered by the management plan must not occur without approval. Each approved plan must be implemented.	Compliant / Closed	<p>Construction commenced upon receipt of approval. No update since previous AER.</p> <p>The condition has been closed with the completion of the construction activities during the reporting period.</p>

Condition No.	Condition	Status	Compliance Statement
Impacts on EPBC-listed species resulting from activities associated with the pipeline crossing at Cockatoo Creek			
30	If an EPBC listed species is identified during the survey required in condition 28(f), the proponent must develop and implement a management plan in accordance with the requirements of condition 8.	Not triggered	The condition was not triggered during the reporting period. The condition has been closed with the completion of the construction activities during the reporting period.
Notification of commencement			
31	Within 20 business days of commencement, the proponent must advise the Department in writing of the actual date of commencement.	Compliant / Closed	No updates since previous AER. The condition has been closed out with the completion of the construction activities during the reporting period.
32	If, at any time after 5 years from the date of this approval, the Minister notifies the proponent in writing that the Minister is not satisfied that there has been commencement of the action, the action must not commence without written agreement of the Minister.	Not triggered	The condition was not triggered during the reporting period.
Request for variation of plans by the proponent			
33	If the proponent wants to act other than in accordance with the plan approved by the Minister under these conditions, the proponent must submit a revised plan for the Minister's approval.	Compliant	Refer to comments for conditions 4 and 18 above regarding revision of plans during the reporting period.
34	If the Minister approves the revised plan, then that plan must be implemented instead of the plan originally approved.	Compliant	Refer to comments for conditions 4 and 18 above regarding revision of plans during the reporting period.
35	Until the Minister has approved the revised plan, the proponent must continue to implement the original plan.	Compliant	Works during the reporting period were conducted in accordance with currently approved plans.
Revisions to plans by the Minister			
36	If the Minister believes that it is necessary or desirable for the better	Not	The Minister has made no requests during the reporting

Condition No.	Condition	Status	Compliance Statement
	protection of a relevant controlling provision for the action, the Minister may request the proponent to make, within a period specified by the Minister, revisions to a plan approved under these conditions.	triggered	period.
37	If the Minister makes a request for a revision to a plan, the proponent must: <ul style="list-style-type: none"> a. Comply with that request; and b. Submit the revised plan to the Minister for approval within a period specified in the request. 	Not triggered	The condition was not triggered during the reporting period.
38	The proponent must implement the revised plan on approval of the Minister.	Not triggered	Approval is yet to be obtained for the revised Pipeline Threatened Fauna Management Plan (Q-LNG01-15-MP-0074), Revision no. 5 provided to the Department during the previous reporting period (on 24/12/2013).
39	Until the Minister has approved the revised plan, the proponent must continue to implement the original plan.	Compliant	Works during the reporting period were conducted in accordance with currently approved plans.
Minimum timeframes for consideration of plans			
40	For any plan required to be approved by the Minister under these conditions, the proponent must ensure the Minister is provided at least 20 business days for review and consideration of the plan, unless otherwise agreed in writing between the proponent and the Minister.	Compliant	When plans are submitted and/or when priority updates are provided to the Department, a minimum of 20 days is included between the submittal date and the date approval is required.
Compliance with State environmental and other authorities			
41	The proponent must comply with all environmental authorisations issued by the State, including conditions of an environmental authority issued under the EP Act.	Compliant	At a state level, Australia Pacific LNG is required to comply with conditions imposed by the Queensland Coordinator General and the conditions of Environmental Authorities issued by the Department of Environment and Heritage Protection. Australia Pacific LNG has an internal review and assurance process which is applied across the LNG Project and to the

Condition No.	Condition	Status	Compliance Statement
			various EAs granted for petroleum activities. This assurance process does occasionally identify opportunities for improvement (OFI) with respect to compliance measures. Where an OFI is identified, actions are agreed and tracked through the internal compliance system. The range of issues that might be covered by an OFI include administrative non-compliances which do not trigger reporting thresholds under the EA.
Provision of State Plans			
42	If a condition of a State approval requires the proponent to provide a new plan then the proponent must also provide the plan to the Department or Minister on request, within the period specified in the request.	Not triggered	The Minister has made no requests during the reporting period.
Timeframes			
43	If these conditions require the proponent to provide something by a specified time, a longer period may be specified in writing by the Minister.	Not triggered	Not applicable during the reporting period.
Auditing			
44	On request of and within a period specified by the Department, the proponent must ensure that: <ul style="list-style-type: none"> a. An independent audit of compliance with these conditions is conducted; and b. An audit report, which addresses the audit criteria to the satisfaction of the Department, is published on the internet and submitted to the Department. 	Not triggered	An independent audit was not requested by the Department during the reporting period.
45	Before the audit begins, the following must be approved by the Department:		

Condition No.	Condition	Status	Compliance Statement
	<ul style="list-style-type: none"> a. An independent auditor; and b. The audit criteria. 		
46	<p>The audit report must include:</p> <ul style="list-style-type: none"> a. The component of the project being audited; b. The conditions that were activated during the period covered by the audit; c. A compliance/non-compliance table; d. A description of the evidence to support audit findings of compliance or non-compliance; e. Recommendations on any non-compliance or other matter to improve compliance; f. A response by the proponent to the recommendations in the report (or, if the proponent does not respond within 20 business days of a request to do so by the auditor, a statement by the auditor to that effect); g. Certification by the independent auditor of the findings of the audit report. 		
47	The financial cost of the audit will be borne by the proponent.		
48	<p>The proponent must:</p> <ul style="list-style-type: none"> a. Implement any recommendations in the audit report, as directed in writing by the Department after consultation with the proponent; b. Investigate any non-compliance identified in the audit report; and c. If non-compliance is identified in the audit report - take action as soon as practicable to ensure compliance with these conditions. 		
49	If the audit report identifies any non-compliance with the conditions, within 20 business days after the audit report is submitted to the Department the proponent must provide written advice to the Minister		

Condition No.	Condition	Status	Compliance Statement
	setting out the: <ol style="list-style-type: none"> a. Actions taken by the proponent to ensure compliance with these conditions; and b. Actions take to prevent a recurrence of any non-compliance, or implement any other recommendation to improve compliance, identified in the audit report. 		
Reporting non-compliance			
50	The proponent must, when first becoming aware of a non-compliance with these conditions or a plan required to be approved by the Minister under these conditions: <ol style="list-style-type: none"> a. Report the non-compliance and remedial action to the Department within five business days; b. Bring the matter into compliance within a reasonable time frame specified in writing by the Department. 	Non-Compliant	On one occasion, the notification of minor non-compliances with the State Approval (EA EPPG00912213) was outside the five business days because they were identified in a third party audit report that was provided to the State Regulator. The Department was informed that the non-compliances were assessed as a State matter only as no impact to MNES had occurred. A contributing factor was that this condition differs from the Gasfield EPBC 2009/4974 approval where reporting of non-compliances related to State Approvals is not required.
Record-keeping			
51	The proponent must: <ol style="list-style-type: none"> a. Maintain accurate records substantiating all activities associated with or relevant to these conditions of approval, including measures taken to implement a plan approved under these conditions; and b. Make those records available to the Department. Such records may be subject to audit by the Department or an independent auditor in accordance with Section 458 of the EPBC Act, or used to verify compliance with these conditions. 	Compliant	All records are being kept within Australia Pacific LNG's document control system.

Condition No.	Condition	Status	Compliance Statement
Financial Assurance			
52	The proponent must: <ol style="list-style-type: none"> Provide the Minister with a financial assurance in the amount and form required from time to time by the Minister for activities to which these conditions apply; and Review and maintain the amount of financial assurance based on proponent reporting on compliance with these conditions, and any auditing of the activities. 	Not triggered	No financial assurance has been requested by the Minister during the reporting period.
53	The financial assurance is to remain in force until the Minister is satisfied that no claim is likely to be made on the assurance.		
Annual Environmental Return			
54	The proponent must produce an Annual Environmental Return which: <ol style="list-style-type: none"> Addresses compliance with these conditions; Records any unavoidable adverse impacts on MNES, mitigation measures applied to avoid adverse impacts on MNES; and any rehabilitation work undertaken in connection with any unavoidable adverse impact on MNES; Identifies all non-compliance with these conditions; and Identifies any amendments needed to plans to achieve compliance with these conditions. 	Compliant	This document Q-LNG01-15-RP-0742 satisfies this condition.
55	The proponent must publish the Annual Environmental Return on its website within 20 calendar days of each anniversary date of this approval. In complying with this publication requirement, the proponent must ensure that it has obtained relevant rights in relation to confidentially and intellectual property rights of third parties.	Compliant	The AER is published on the Project website http://www.aplng.com.au/environment/management-plans .
Survey Data			

Condition No.	Condition	Status	Compliance Statement
56	If requested by the Department, the proponent must provide all species and ecological survey data and related survey information from ecological surveys undertaken for MNES. The data must be collected and recorded to conform to data standards notified from time to time by the Department.	Not triggered	No requests for data were made during the reporting period.
Publication of Plans			
57	All plans approved by the Minister under these conditions must be published on the proponent's website within 30 business days of approval by the Minister.	Compliant	All plans approved during the reporting period by the Minister are published on the Project website in accordance with this condition (http://www.aplng.com.au/environment/management-plans).
58	The Department may request the proponent to publish on the internet a plan in a specified location or format and with specified accompanying text. The proponent must comply with any such request.	Not triggered	No requests were made during the reporting period.

3. Reconciliation of Disturbance Limits

Condition 11(a) allows for maximum disturbance limits for unavoidable impacts upon listed threatened communities and potential habitat for listed threatened species and migratory species as a result of the construction, operation and decommissioning.

Condition 11(b) requires that the proponent prepare a reconciliation statement identifying the impacts against the agreed disturbance limits.

Please refer to **Table 4** for a statement of clearing impacts.

Table 4: Clearing Impacts Reconciliation Statement

Table 1: EPBC Listed threatened ecological communities			
Ecological community	EPBC Status	Approved Disturbance Limit (ha)	Clearing Impact (total to date) (ha)
Brigalow (<i>Acacia harpophylla</i> dominant and co-dominant)	Endangered	5.41	1.10
Semi-evergreen vine thickets of the Brigalow Belt (North and South) and Nandewar Bioregions	Endangered	0.26	0.24
Species	EPBC Status	Disturbance Limit (ha)	
<i>Cycas megacarpa</i> (Large-fruited Zamia)	Endangered	470 individuals	357
<i>Cadellia pentastylis</i> (Ooline)	Vulnerable	10 individuals	1
<i>Xeromys myoides</i> (Water Mouse)	Vulnerable	15.6	4.88

Note: Clearing was completed in previous reporting period. As shown in Table 4, all clearing values are below the approved disturbance limits.