

Santos GLNG Gas Transmission Pipeline

Annual Environmental Return 2016 EPBC No. 2008/4096 Gas Transmission Pipeline

Document Number: 3381-670-REP-0001





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1 INTRODUCTION

On 22 October 2010, the GLNG Project proponents, Santos Limited and PETRONAS Australia Pty Ltd (**GLNG**) received approval from the then Minister for Sustainability, Environment, Water, Population and Communities to develop, construct, operate and decommission a 430 km pipeline network (**Gas Transmission Pipeline or GTP**) to link coal seam gas fields to a proposed LNG facility on Curtis Island as described in referral EPBC No 2008/4096 (**EPBC Approval**).

The 2016 Annual Environmental Return (**2016 AER**) has been developed to satisfy Condition 62 of the EPBC Approval.

Condition 62 states:

"62. The Proponent must produce an Annual Environmental Return, which:

- a) 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;
- c) identifies all non-compliances with these conditions; and
- d) identifies any amendments needed to plans to achieve compliance with these conditions."

The 2016 AER is structured as follows:

- Section 2 addresses the matters required by Condition 62(a);
- Section 3 addresses the matters required by Condition 62(b);
- Section 4 addresses the matters required by Condition 62(c); and
- Section 5 addresses the matters required by Condition 62(d).

Condition 63 of the EPBC Approval also states:

"63. The proponent must publish the Annual Environmental Return on the on its website within 20 business days of each anniversary date of this approval."

The relevant anniversary date of the EPBC Approval for the purposes of the 2016 AER is 22 October 2016.

The 2016 AER covers the period 23 October 2015 – 22 October 2016 (**AER Period**) and will be published on the internet by 19 November 2016.



2 COMPLIANCE WITH CONDITIONS - CONDITION 62(a)

The table provided in Appendix A demonstrates how GLNG has or is addressing each of the conditions imposed by the EPBC Approval.

3 MATTERS OF NATIONAL ENVIRONMENTAL SIGNIFICANCE - CONDITION 62(b)

3.1 Unavoidable Adverse Impacts on MNES

During this AER Period, GLNG commenced operation of the GTP in accordance with the EPBC Approval and other Queensland statutory approvals. The GLNG GTP is currently in the operation and rehabilitation (progressive) phase of the project.

There were no unavoidable impacts for those listed threatened ecological communities and potential habitat for listed threatened species or migratory species set out in conditions 11 and 12 during the 2016 AER Period.

3.2 Rehabilitation Work Undertaken in Connection with any Unavoidable Adverse Impacts on MNES

Reinstatement works have now been completed along the entire GTP. This includes all areas associated with each listed MNES species.

The reinstated pipeline right of way (ROW) and associated temporary areas are in various stages of progressive rehabilitation.

4 NON-COMPLIANCES - CONDITION 62(c)

No non-compliances with the EPBC Approval have occurred within the AER Period. This includes potential non-compliances with State environmental authorisations as referred to in condition 49.

5 AMENDMENTS TO PLANS - CONDITION 62(d)

In accordance with Condition 89, if the approval holder wants to act other than in accordance with this approved plan, the approval holder must submit a revised plan for approval. GLNG has sought to amend the Significant Species Management Plan and the Offsets Plan during the AER period. The proposed amendments to these plans are yet to be approved by the Department, further details are provided below.



APPENDIX A

Compliance with EPBC Approval



Condition	Compliance Notes
The pipeline route and ROW is depicted in the map at Attachment 1.	The Gas Transmission Pipeline (GTP) has been constructed generally in accordance with the pipeline route and ROW depicted in the map at Attachment 1 of the EPBC Approval and as shown in the Environmental Management Plans approved by the Department.
2. The proponent must prepare a 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. 3. The Environmental Management Plan must include: 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 minimise 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 to a condition at least equivalent to the ROW condition prior to commencement; e. measures to minimise impacts on fauna during pipeline construction, including: i. measures to protect MNES in the areas of the ROW 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 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; and v. record keeping for all survey, removal and relocation activities. 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 imp	
maintenance activities; g. measures to manage and control feral animals that may spread due to the establishment of the ROW;	



Condition	Compliance Notes
h. measures for the prevention of ignition sources to protect habitat values; i. measures for the management of acid sulfate soils;	
4. The Environmental Management Plan must be submitted for the approval of the Minister. Commencement must not occur without approval (except for activities critical to commencement and associated with mobilisation of plant, equipment, materials, machinery and personnel prior to start of pipeline construction which will have no adverse impact on MNES). The approved plan must be implemented.	
 5. Before the clearance of native vegetation in the pipeline ROW, the proponent must: a. undertake pre-clearance surveys for the presence of listed threatened species and migratory species, their habitat and listed ecological communities. b. alternatively, where recent surveys have already been undertaken and those surveys meet the Department's requirements for surveys for the relevant MNES, the proponent may elect to develop management plans based on those surveys in accordance with the requirements of Condition 8. 6. Pre-clearance surveys must: 	No clearance of native vegetation was undertaken during this AER period.
 a. for each listed species, be undertaken in accordance with the Department's survey guidelines in effect at the time of the survey. b. be undertaken by a suitably qualified ecologist approved by the Department in writing; c. document the survey methodology, results and significant findings in relation to MNES; d. apply best practice site assessment and ecological survey methods appropriate for each listed threatened species, migratory species, their habitat and listed ecological communities. 7. Pre-clearance survey reports (which document the methods used and the results obtained) must be published by the proponent and provided to the Department on request. 	
 8. If a listed threatened species or 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 the Table 1 or 2 at 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: a. the relevant characteristics describing each ecological community b. a map of the location of species, species' habitat, or ecological community in proximity to the ROW; 	Management plans for each listed species and ecological community (comprised in the Significant Species Management Plan (SSMP)) were developed by GLNG following the pre-clearance surveys in accordance with the requirements of condition 8 and the final plan was approved by the Minister on 7 June 2013. Quantification of the unavoidable impact to listed threatened species, migratory species, their habitat, or a listed ecological community is recorded in the Significant Species Management Plan (SSMP). An updated SSMP was submitted to DOTE (Post Approvals) on the 3



Condition	Compliance Notes
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' habitat, or the ecological community; f. current legal status (under the EPBC Act); g. known distribution. For listed species, each plan must also include: 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 flora or ecological communities; d. anticipated threats to MNES from pipeline construction, operation and decommissioning; e. management practices and methods to minimise impacts, such as: 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 for 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	November 2015. This updated SSMP was submitted for approval following the endorsement of the Santos GLNG Adverse Impacts Assessment Methodology (AIAM). The AIAM accurately quantifies the final adverse impacts to MNES as a result of the construction of the GTP. This updated plan is currently being revised in consultation with the department. In relation to condition 8 (e), on 27 September 2013, the Offset Plan submitted by GLNG was approved by the Department as satisfying condition 8 of the EPBC Act approval in relation to the direct offset obligations that arise from the Kangaroo Island wetlands, Narrows and Curtis Island elements of the GTP project. On 3 November 2015, Santos GLNG submitted an Offset Plan to address the remaining impacts to MNES resulting from the construction of the GTP that were not addressed by the Offset Plan approved on 27 September 2013. This plan is currently being revised in consultation with the department. All required plans were submitted and approved prior to any clearing activities.
without approval. Each approved plan must be implemented. 10. If, during construction a listed 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.	The GTP was not in construction during this AER Period and is therefore not subject to this condition.



Condition			Compliance Notes	
11. The following maximum disturbance limits apply to any disturbances authorised for unavoidable impacts on listed threatened 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).			No disturbance for unavoidable impacts on listed threatened communities and potential habitat for listed threatened species or migratory species has occurred during this AER Period.	
Table 1: EPBC Listed threater Ecological community	EPBC Status	numities	Disturbance limit (ha)	
Brigalow (Acacia harpophylia dominant and co-dominant)	Endangered		22.0	
Semi-evergreen vine thickets of the Brigalow Belt (North and South) and Nadewar Bioregions	Endangered		2.4	
Species	EPBC Status		Disturbance limit (ha)	
Cycas megacarpa (Large- fruited Zamia)	Endangered		27.8	
12. 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. Table 2: Species management plans required before commencement				The SSMP includes management plans meeting the requirements of condition 8 for each individual species listed in Table 2. GLNG prepared the individual management plans comprised in the SSMP through a staged approach to align with the GTP construction schedule. These have been approved by the Department and no further
Table 2: Species managemen	t plans required bef			individual management plans are required.
Listed species		EPBC Act Status		
Philotheca sporadica		Vulnerable		Note: Brigalow Scaly-foot (<i>Paradelma orientalis</i>) has since been delisted under the EPBC Act.
Cadellia pentasylis (Ooline)		Vulnerable		
Paradelma orientalis (Brigalow Scaly-foot) Furina dunmalli (Dunmall's Snake)		Vulnerable Vulnerable		
Egernia rugosa (Yakka Skink)		Vulnerable		
Geophaps scripta scripta (Squatter pigeon – southern)		Vulnerable		
Nyctophilus timoriensis (Easter	n Long-eared Bat)	Vulnerab	le	



Condition		Compliance Notes
Chalinolobus dwyeri (Large-eared Pied Bat)	Vulnerable	
Xeromys myoides (Water Mouse)	Vulnerable	
13. Each management plan must be submitted for the approval of the Minister. Commencement must not occur without approval. Commencement in the location covered by the management plan must not occur without approval. Each approved plan must be implemented.		Each of the individual management plans comprising the SSMP was submitted and approved prior to works commencing in the area relevant to the species/habitat.
14. Disturbance of vegetation related to the constru- must be confined to the ROW. Any proposed si access tracks and pipe lay-down areas outside undertaken so as to minimise potential adverse conditions 5 to 13.	ting of construction camps, vehicle the ROW during construction must be	Clearance outside the ROW has not been undertaken during the AER reporting period.
15. Within 12 months of the commencement of pipe prepare an Offset Plan to provide an offset area relating to Semi-evergreen vine thickets of the Nandewar Bioregions within the project area. The area of private land which includes at least 19.2 the Brigalow Belt (North and South) and Nande	of for the approved disturbance limits Brigalow Belt (North and South) and the offset area to be secured must be an the ha of Semi-evergreen vine thickets of	GLNG OPL submitted the GTP Environmental Offset Plan (EOP) for the GTP Project on 22 April 2011. Note: The commencement date for the controlled action the subject of the EPBC Act approval (the GTP) was the 2 August 2012. The EOP included properties that would be suitable to meet the offset requirement for SEVT Semi-evergreen vine thickets of the Brigalow Belt (North and South) and Nandewar Bioregions. In addition, the OEP identified offset properties that would address the offset requirements for listed flora and fauna species, World Heritage and National Heritage values. On the 3 November 2015 GLNG submitted a revised offsets plan to address the remaining impacts to MNES resulting from the construction of the GTP that were not addressed by the Offset Plan approved on 27 September 2013. (refer to Compliance Notes for condition 8 for more details). This plan is currently being revised in consultation with the department.
16. The Offset Plan must include details of the offset arrangements for property acquisition, maps an relevant to MNES, connectivity with other habita rehabilitation program, and mechanisms for lon management.	d site description, environmental values ats and biodiversity corridors, a	
17. The Offset Plan must be submitted for the appr the commencement of gas field development. I implemented within 30 business days of approv	he approved Offset Plan must be	
18. If the approved Offset Plan cannot be implement to secure the necessary area of private land the Minister's approval an alternative Offset Plan. T	n the proponent must submit for the	Once approved the revised offset plan will be implemented.



Condition	Compliance Notes
at least an equivalent environmental outcome to those specified under condition 15. The approved alternative Offset Plan must be implemented.	
19. 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 value in relation to the impacted MNES.	Currently there are no actions proposed within any offset areas subject to the 2015 Offsets Plan.
20. The proponent must secure the offset within 2 years of commencement.	The commencement date for the controlled action the subject of the EPBC Approval (the GTP) was 2 August 2012. On 29 May 2015, the Department was provided with land title documents showing GLNG as the registered owner of the properties subject to the 2015 Offset Plan.
21. Within 12 months of securing the offset area required under the approved Offset Plan, the proponent must develop an Offset Area Management Plan which must specify measures to improve the environmental values of the offset area in relation to MNES, including;	On 3 November 2015, Santos GLNG submitted a new Offset Plan. This offset plan includes the details of Condition 21 a) – f) Offset Area Management Plans. This plan is currently being revised in consultation with the department.
a. the documentation and mapping of current environmental values relevant to MNES of the area;	
b. measures to address threats to MNES including but not limited to grazing pressure and damage by livestock and adverse impacts from feral animals and weeds;	
c. measures to provide fire management regimes appropriate for the MNES;	
d. measures to manage the offset area to improve the condition of the SEVT ecological community within the offset area and to increase the areal extent of SEVT ecological community within the offset area as objectives of the program.	
e. monitoring, including the undertaking of ecological surveys to assess the success of the management measures against identified milestones and objectives;	
f. performance measures and reporting requirements against identified objectives, including trigger levels for corrective actions and the actions to be taken to ensure performance measures and objectives are met.	



Condition	Compliance Notes	
22. Within 12 months of securing the offset area the Offset Area Management Plan must be submitted for the approval of the Minister. The approved Offset Area Management Plan must be implemented.		
NOTE CONDITION 23 (as per below) was varied by DOTE on 15 April 2014 23. To offset the unavoidable impacts to Cycas megacarpa from all activities associated with this approval including implementing the baseline route through the Callide and Calliope Ranges assessed in the Environment Impact Statement, the proponent must:	GLNG submitted the GTP Environmental Offset Plan (EOP) in relation to condition 23 on 22 April 2011. The Plan identified a number of properties that would be suitable as potential recipient sites for the translocated and propagated Cycads.	
 a. legally protect the environmental values of an offset area of at least 166.8ha as an offset (the "offset area") for receiving no less than 3990 translocated and propagated individuals by: i. within 44 months of the date of this approval: l. 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; III. implementing measures to protect the existing <i>Cycas megacarpa</i> population within the offset area; and ii. within 56 months of the date of this approval, securing the offset area to ensure that it is protected in perpetuity; 	The GLNG <i>Cycas megacarpa</i> Management Plan (CMP) was prepared to address condition 23, 24 and 25 of EPBC Approval 2008/4096. Document reference number: 3380-GLNG-4-1.3-0013 (Rev 5). GLNG identified in the CMP a preferred offset property and demonstrated that it was suitable as a translocation and offset site. The CMP was approved by the Department on 4 March 2013. Document reference number: SEWPaC letter_Ref:2012/14056. Subsequent amendments have been made to the approved CMP. The amended CMPs have been submitted for approval to the Department. The Department approved the most recent version of the CMP (Rev 8) on 30 August 2013. Document reference: SEWPaC letter_Ref:2013/02492.	
 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 23(a) within one month of securing the land; 	In October 2013, GLNG requested a further extension of time to secure the preferred Cycad Offset Site. DOTE approved this request on 15 Apri 2015 through the variation of Condition 23.	
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 value in relation to the impacted MNES;	The contract entered into by GLNG for the purchase of the offset property is now unconditional and settlement is due to occur on 21 November 2016. GLNG has also developed a Cycad Offset Area Management Plan (COAM Plan). The OAMP addresses details including the management of weeds, fire, feral animals and grazing within the offset site.	
e. demonstrate that the measures undertaken in accordance with 23(a) for securing and managing the offset will ensure that the offset is protected in perpetuity.		



Condition	Compliance Notes
	The Department conducted a compliance monitoring inspection of GLNG's Cycad management activities on 30/04/2014. No adverse findings have been reported.
24. The proponent must prepare a <i>Cycas megacarpa</i> Management Plan in consultation with an expert approved by the Department in writing.	In accordance with condition 24 to 26, GLNG submitted a <i>Cycas megacarpa</i> Management Plan by the Department on 04 March 2013.
25. The <i>Cycas megacarpa</i> Management Plan must include: a. confirmation of the pipeline route across the Callide Range b. measures to ensure all <i>Cycas megacarpa</i> within the ROW are avoided using, for example suitable trenchless technique(s) as necessary or, if avoidance is not possible, individual plants must be removed and kept offsite and replanted in the same location, or alternatively translocated. Where it can be demonstrated that removal and translocation of individuals is unlikely to succeed, translocation may be substituted by establishing propagated individuals; c. measures to propagate and plant <i>Cycas megacarpa</i> individuals removed or impacted by construction activities to maintain a population of no less than 3990 (2610 if the CRAR is pursued) individuals within the offset site required by Condition 23(a); d. a detailed methodology for translocation, propagation, and planting, including a map of the location of the offset site; e. details of funding required to secure, maintain and enhance the values of the offset site in perpetuity; f. details of a suitably qualified person to undertake translocation, propagation and planting; g. details of the erosion and sediment control measures to be implemented in the ROW in the Callide and Calliope Ranges; h. measures to rehabilitate the ROW in the Callide and Calliope Ranges; i. measures for the control and management of weeds, fire, feral animals, access and grazing in translocation sites; j. measures for the management, maintenance and protection of the population of <i>Cycas megacarpa</i> individuals in the offset site for a period of five years following final planting; k. details of monitoring practices to assess the success of proposed management regimes of the offset; l. performance measures, reporting requirements, trigger levels for corrective actions and identification of those actions to be taken to ensure performance measures are met; and	This plan has been updated on occasions with the final revision (Revision 8) being approved by the Department on 30 August 2013.



Condition	Compliance Notes
m. a reconciliation statement of impacts against the agreed limit of disturbance, as defined above in condition 11 must be updated by the proponent every 12 months from commencement until construction is complete.	
26. The Cycas megacarpa 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. The approved plan must be implemented.	
27. To avoid doubt, a single offset management plan can be submitted to meet all offset management plan requirements.	Not applicable; condition is an aid to interpretation.
28. Condition 28 was revoked by decision of the Department dated 31 October 2013.	
29. The proponent must prepare an Environmental Management Plan for the crossing of the Narrows. This must include:	The Environmental Management Plan for the crossing of the Narrows has been approved by the Department.
 a. if the crossing is undertaken concurrently with the construction of one or more additional gas transmission pipelines (a 'bundled crossing'): 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 	Construction of The Narrows crossing was undertaken by tunnel boring machine (TBM). Management strategies for the Narrows crossing were incorporated into the overall project Environmental Management Plans. GLNG did not participate in the "bundled crossing".
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 of the Great Barrier Reef;	A Receiving Environment Monitoring Program was developed by Cardno to monitor the actual and potential impacts of the construction activities on the receiving environment within the Narrows region.
iv. mitigation measures to reduce impacts on listed threatened species, ecological communities, migratory species and World and National Heritage-listed values of the Great Barrier Reef;	The EMP for the Marine Crossing includes an Acid Sulfate Soils Management Plan (ASSMP). This ASSMP has been approved by EHP. This plan outlines the measures that were taken in order to manage acid
v. proposed offset measures to compensate for unavoidable impacts on listed threatened species and ecological communities, listed migratory species and values of the World and National Heritage-listed Great Barrier Reef;	sulfate soils.
vi. measures for the management of acid sulfate soils (both potential and actual);	
vii. measures for ongoing maintenance and decommissioning of the pipelines, or	
If the proponent does not proceed in a bundled crossing: 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 horizontal directional drilling or tunnelling);	



Condition	Compliance Notes
 i. details of the final pipeline route, design and construction methodology, including details of inclusion of pipes for water supply and sewerage; ii. potential impacts from the construction of the pipeline on listed threatened species, ecological communities, migratory species and World and National Heritage-listed values of the Great Barrier Reef; 	
iii. mitigation measures to reduce impacts to listed threatened species, ecological communities, migratory species and World and National Heritage-listed values of the Great Barrier Reef;	
iv. proposed offsets to compensate for the unavoidable impacts of the action on listed threatened species and ecological communities, listed migratory species and values of the World and National Heritage-listed Great Barrier Reef;	
v. measures for the management of acid sulfate soils;vi. measures for ongoing maintenance and decommissioning of the pipeline.	
30. The Environmental Management Plan must be submitted for the approval of the Minister. The activity which is the subject of the Environmental Management Plan must not start without approval. The approved plan must be implemented.	
31. 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.	Not applicable. The pipeline construction methodology did not include dredging.
32. The Dredge Management Plan required under these conditions must include:	
a. details of dredging methods, planned commencement, duration and frequency of dredging;b. identification of areas of potentially impacted seagrass habitat and their environmental tolerances;	
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 Australian 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 Environmental Impact Statement;	
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:	



Condition	Compliance Notes
i. potential impacts of dredging on seagrass including but not limited to turbidity and light attenuation;	
ii. the triggers established under condition 32(f); and	
iii. the long term impacts of the action;	
h. options, linked to the triggers established under condition 32(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 minimise the impact on listed migratory birds from noise associated with construction activities;	
k. measures to prevent and respond to the introduction of marine pest species;	
I. measures to protect dugongs and listed turtles including the use of turtle excluder devices;	
m. details of dredge spoil placement;	
n. provisions to sample and analyse dredge spoil composition.	
33. The Dredge Management Plan must be submitted for the approval of the Minister. The activity the subject of the Dredge Management Plan must not occur without approval. The approved plan must be implemented.	
34. East of the Callide Range, the proponent must locate the pipeline within the Callide Infrastructure Corridor State Development Area as indicated in the map at Attachment 1.	The Pipeline has been constructed within the Callide Infrastructure Corridor State Development Area (CICSDA).
35. Where reasonably possible horizontal directional drilling must be used for major waterway crossings, including:	The Aquatic Values Management Plan (AVMP) details the construction methodology to be used for each individual watercourse crossing in order to minimise the impact on MNES. Seasons and the ecology of species are taken into consideration within the AVMP and SSMP. Any watercourses within the known distribution areas were determined
a. those within the Fitzroy 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 before marshlands near Kangaroo Island and The Narrows	to be adequately mitigated against potential impacts to MNES without the use of horizontal directional drilling.
36. Trenchless techniques are not required in minor creek beds within the known distribution of the Fitzroy River Turtle (<i>Rheodytes leukops</i>) and Murray Cod (<i>Maccullochella peelii peelii</i>) where there is no water at the crossing site and the distance to the nearest water	the use of nonzontal unectional unling.
is sufficient to buffer any potential impacts resulting from the crossing technique.	



Condition	Compliance Notes
 37. The proponent must prepare an Aquatic Values Management Plan. This plan must include: 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. 	No works commenced in the applicable watercourse until the relevant AVMP submitted by GLNG was approved by the Department. The final AVMP was approved by the Department 3 October 2013.
38. The Aquatic Values Management Plan must be approved in writing by the Minister. Activities the subject of the plan must not start without approval. The Plan must be implemented.	
39. Within 20 business days of commencement, the proponent must advise the Department in writing of the actual date of commencement.	The Department was informed of the commencement date of the GTP construction on 23 August 2012.
40. If, at any time after five 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 the written agreement of the Minister.	Not applicable.
41. If the proponent wants to act other than in accordance with a plan approved by the Minister under these conditions, the proponent must submit a revised plan for the Minister's approval.	GLNG submitted revised plans as required to ensure all works were conducted in accordance with the approved plan.
42. If the Minister approves the revised plan, then that plan must be implemented instead of the plan originally approved.	
43. Until the Minister has approved the revised plan, the proponent must continue to implement the original plan.	
44. If the Minister believes that it is necessary or desirable for the better 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.	No requests have been made by the Department during the AER Period.



Condition	Compliance Notes
45. If the Minister makes a request for revision to a plan, the proponent must: a. comply with that request; and b. submit the revised plan to the Minister for approval within the period specified in the request.	
46. The proponent must implement the revised plan on approval of the Minister.	
47. Until the Minister has approved the revised plan, the proponent must continue to implement the original plan.	
48. 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.	Not applicable.
49. The proponent must comply with all environmental authorisations issued by the State, including conditions of an environmental authority issued under the EP Act.	No non-compliances with environmental authorisations issued by the state, have occurred within this AER Period. Refer to Section 4 of this AER.
50. If a condition of a State approval requires the proponent to provide a plan then the proponent must also provide the plan to the Department or Minister on request, within the period specified in the request.	State required plans are available to the Department or Minister.
51. 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 relevant to the 2016 AER Period.
52. On the request of and within a period specified by the Department, the proponent must ensure that:	No independent audit of compliance with these conditions was requested by the Department during the 2016 AER Period.
a. an independent audit of compliance with these conditions is conducted; andb. an audit report, which addresses the audit criteria to the satisfaction of the Department, is published on the Internet and submitted to the Department.	
53. Before the audit begins, the following must be approved by the Department:	
a. the independent auditor; and	
b. the audit criteria.	
54. The audit report must include:	
a. the components of the project being audited;	
b. the conditions that were activated during the period covered by the audit;c. a compliance/non-compliance table;	
o. a compliance non-compliance table,	<u> </u>



Condition	Compliance Notes
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.	
55. The financial cost of the audit will be borne by the proponent.	
56. The proponent must:	
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.	
57. 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 setting out the:	
a. actions taken by the proponent to ensure compliance with these conditions; and	
b. actions taken to prevent a recurrence of any non-compliance, or implement any other recommendation to improve compliance, identified in the audit report.	
58. 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:	No non-compliances with the EPBC Approval have occurred within this AER Period. Refer to Section 4 of this AER.
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.	
59. The proponent must:	All required records are maintained in a central compliance database and are available to the Department on request.
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 on request 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.	



Condition	Compliance Notes
60. The proponent must:	No requests were made during the AER period.
a. provide the Minster with a financial assurance in the amount and form required from time to time by the Minster for activities to which these conditions apply; and b. review and maintain the amount of financial assurance based on proponent reporting on	
compliance with these conditions, and any auditing of the activities.	
61. The financial assurance is to remain in force until the Minister is satisfied that no claim is likely to be made on the assurance.	
62. The proponent must produce an Annual Environmental Return which:	This document: Annual Environmental Return 2016 EPBC No 2008/4096
a. addresses compliance with these conditions;	Gas Transmission Pipeline.
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-compliances with these conditions; and	
d. identifies any amendments needed to plans to achieve compliance with these conditions.	
63. 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 confidentiality and intellectual property rights of third parties	The Annual Environmental Return 2016 will be published on the GLNG website by 20 November 2016.
64. 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 applicable.
65. 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.	No plans have been approved by the Minister during the AER Period. All previously approved plans have been published in accordance with this condition and are available at
	http://www.santosglng.com/environment-and-water/environmental-management.aspx
66. 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 applicable – no requests have been received.