



Report
ID 40737928

Integrated Gas

Australia Pacific LNG Annual Environmental Return EPBC 2009/4974 2020-2021

EPBC 2009/4974 Gas Fields Annual Environmental Return 2020-2021

Review record

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1. Purpose

The purpose of this Report is to report on the status of compliance with each condition of EPBC 2009/4974.

Condition 112 of the Approval requires an Annual Environmental Return to be prepared that describes compliance with each condition, identifies any instances of non-compliance, records unavoidable impacts, mitigation measures and rehabilitation of Matters of National Environmental Significance (MNES), and identifies any amendments to plans needed to comply with the conditions of approval. This Report has been prepared in accordance with condition 112.

Condition 112 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-compliances with these conditions; and*
- d. identifies any amendments needed to plans to achieve compliance with these conditions.*

In accordance with condition 113, the Annual Environmental Return will be published on the Project website within 20 business days of each anniversary date of the Approval.

2. Scope

The reporting period relevant to this report is 21 February 2020 to 20 February 2021 inclusive. This scope of this Annual Environmental Return related to the Australia Pacific LNG Walloons gas fields. Compliance with Federal Approvals EPBC 2011/6221 and EPBC 2009/4976 are addressed in separate reports.

3. Abbreviations

Definitions for terms and acronyms can be found in Table 1 below.

Table 1: Terms and Acronyms

Term/Acronym	Definition/Expansion
AER	Annual Environmental Return
ATP	Authority to Prospect
CSG	Coal Seam Gas
Department	Department of the Environment and Energy
EIS	Environmental Impact Statement
EPBC Act 1999	Environment Protection and Biodiversity Conservation Act 1999
Ha	hectare
LNG	Liquid Natural Gas
M	metre
MNES	Matters of National Environmental Significance
MP	Management Plan
OAMP	Dukes Plain Offset and Rehabilitation Area Management Plan
OFI	Opportunities for improvement
OGIA	Office of Groundwater Impact Assessment
PL	Petroleum Lease

Term/Acronym	Definition/Expansion
PLA	Petroleum Lease Application
QWC	Queensland Water Commission
RRRMP	Remediation Rehabilitation Recovery and Monitoring Plan
TEC	Threatened Ecological Community
UWIR	Underground Water Impact Report
WMMP	Water Monitoring and Management Plan

4. Annual Environmental Return

4.1 Compliance

Compliance with the conditions of EPBC Approval 2009/4974 is set out in Table 2.

4.2 Non-Compliances

Any potential environmental non-compliances identified in Table 2 have previously been reported to the Department. There are no new non-compliances for the reporting period. No impact to MNES is believed to have occurred as a result of any identified potential non-compliance.

APLNG has taken action to rectify all non-compliances. The relevant management plans have been updated and submitted to the Department for final assessment and approval. Ongoing correspondence regarding each of the submissions is detailed in Table 2 against the relevant condition.

Table 2: Compliance Table - EPBC 2009/4974

Condition No.	Condition	Status	Compliance Statement
Project Areas			
1	The project area is the area substantially depicted in the map at Figure 1.	Compliant	Figure 1 in the Approval was updated by variation on 13 July 2017. The project area is the area substantially depicted in the map at Figure 1.
Infrastructure Limits			
2	Impacts must be limited to a maximum of 10,000 production wells and impacts related to associate gas field development.	Compliant	These limits have not been exceeded.
Constraints Planning and Field Development Protocol			
3	Before the commencement of gas field development, the proponent must develop a Constraints Planning and Field Development Protocol (the Protocol).	Closed	Early works commenced at the gas fields on 19 October 2011. The Constraints Planning and Field Development Protocol (Q-LNG01-15-MP-0109), which covers Gas field development, was originally approved by the Department on 1 September 2011. The latest version of the Protocol was approved on 12 February 2021.
4	The Protocol must apply for the life of the project and include the principles of: a. avoiding direct and indirect adverse impacts on MNES; b. mitigating and managing direct and indirect impacts to minimise cumulative adverse impacts on matters of national environmental significance (MNES); c. active site remediation and rehabilitation of impacted areas to promote and maintain long-term recovery of MNES.	Compliant /Closed	The Constraints Planning and Field Development Protocol (Q-LNG01-15-MP-0109) satisfies this condition. The latest version of the Protocol was approved on 12 February 2021. This condition was revoked by the department on the 12th Feb 2021.

Condition No.	Condition	Status	Compliance Statement
5	<p>The Protocol must:</p> <ul style="list-style-type: none"> a. classify the following as being within the proponent's sensitivity categories 1 to 4 (or should the proponent's classification be revised, equivalent high environmental constraints class): <ul style="list-style-type: none"> i. all listed threatened ecological communities; ii. all listed flora species; and iii. those listed threatened and migratory fauna species habitats as identified in management plans required under these conditions, which where relevant may be described in terms of specific niche habitat types; b. include constraints mapping for sensitivity category 1-7 as described in the proponent's Environmental Impact Statement; c. require pre-clearance site assessments of sensitivity category 1-4 by an approved suitably qualified ecologist; d. require pre-clearance site assessments of sensitivity category 5-7 by a suitably qualified environmental officer; e. for any MNES identified following an assessment under 5d, require review of those pre-clearance site assessments by a suitably qualified ecologist; f. update constraints mapping with results of any pre-clearance site assessments which confirm presence of MNES; g. require the documentation of all planning decisions and pre-clearance site assessments and field ecological surveys in proposed gas fields development areas where sensitivity category 1-4 is mapped, likely or found; h. implement species management plans (as required in condition 7); l. calculate disturbance as required in condition 13; j. take into account all current survey data and available information and maps of all MNES relevant to the project area as described within environmental sensitivity category 1-4 ; 	Compliant /Closed	<p>The Constraints Planning and Field Development Protocol (Q-LNG01-15-MP-0109) satisfies this condition.</p> <p>The latest version of the Protocol was approved on 12 February 2021. This condition was revoked by the department on the 12th Feb 2021.</p>

<p>5 (continued)</p>	<p>k. require the pre-clearance site assessments and field ecological surveys to identify and assess options relating to development impacts on MNES and provide recommendations to inform the development of the project area;</p> <p>Note: The proponent’s approach to sensitivity mapping relates to impact avoidance and mitigation as described in volume 2, chapter 23 of the proponent’s Environmental Impact Statement (publicly released 20 march 2010). The indicative sensitivity categories described in the EIS are:</p> <p>Category 1: Extremely sensitive: Siting of infrastructure within these areas will be avoided</p> <p>Category 2: Highly Sensitive: Infrastructure will only be located within or in proximity to existing cleared and disturbed areas to reduce fragmentation; Limited clearing (if necessary for incremental expansion of existing disturbance) for construction to be rehabilitated prior to operation.</p> <p>Category 3: Sensitive: Clearing only for linear infrastructure and well leases. Non-linear infrastructure to be located within or in proximity to existing cleared and disturbed areas. Disturbed areas not required for ongoing operation to be rehabilitated prior to operation.</p> <p>Category 4: Neutral: Clearing for linear and non-linear infrastructure is to minimise edge effects where possible.</p> <p>Category 5: Robust: Clearing for infrastructure, although hollow-bearing trees and habitat connectivity, particularly along watercourses, to be retained.</p> <p>Category 6 and 7: Cleared: Siting of infrastructure >100m from edges of categories 2-5 and >200m category 1.</p> <p>l. to avoid direct and indirect adverse impacts on MNES, including fragmentation and edge effects, provide that proposed infrastructure is located in accordance with the following:</p> <p>When siting exploration and production wells:</p> <ul style="list-style-type: none"> i) avoid development in sensitivity category 1 unless authorised in writing by the Department; ii) avoid development in sensitivity category 2-4, unless the location within any of these sensitivity categories is justified given other constraints and the impact on any MNES will be minimal, short term and recoverable; iii) where development cannot avoid areas of MNES within sensitivity 		
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<p>5 (continued)</p>	<p>category 2-4, preferentially avoid native vegetation that constitutes a listed ecological community and/or may provide habitat for listed species, and site the wells in proximity to cleared areas, or in areas of lower ecological condition such as previously disturbed or degraded areas; and iv) where ii-iii above cannot practicably be achieved, the proponent will site infrastructure that takes into account the written ecological advice of an approved ecologist .</p> <p>Note: Directional drilling and multiple drill holes from one well pad are options to avoid well site and related infrastructure disturbance to sensitivity category 1-4.</p> <p>When siting non- linear infrastructure:</p> <p>i) avoid development in sensitivity category 1 unless authorised in writing by the Department;</p> <p>ii) avoid development in sensitivity category 2-4, unless the location within any of these sensitivity categories is justified given other constraints and the impact on any MNES will be minimal, short term and recoverable;</p> <p>iii) where development cannot avoid areas of MNES within sensitivity category 2-4, preferentially avoid native vegetation that constitutes a listed ecological community and/or may provide habitat for listed species, and site infrastructure in or approximate to cleared areas, or areas of lower ecological condition such as previously disturbed or degraded areas; and</p> <p>iv) where ii-iii above cannot practicably be achieved, the proponent will site infrastructure that takes into account the written ecological advice of an approved ecologist</p> <p>When siting linear infrastructure:</p> <p>i) avoid development in sensitivity category 1 unless authorised in writing by the Department;</p>		
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<p>5 (continued)</p>	<p>ii) avoid development in sensitivity category 2-4, unless their location within these sensitivity categories is justified given other constraints and the impact on any MNES will be minimal, short term and recoverable;</p> <p>iii) where development cannot avoid areas of MNES within sensitivity category 2-4, preferentially avoid native vegetation that constitutes a listed ecological community and/or may provide habitat for listed species, and site infrastructure in or approximate to cleared areas, or areas of lower ecological condition such as previously disturbed or degraded areas; and</p> <p>iv) where ii-iii above cannot practicably be achieved, the proponent will site infrastructure that takes into account the written ecological advice of an approved ecologist</p> <p>Note: Justification is reportable in accordance with condition 13 a) vii). The management plan requirements under condition 8 h) may also indicate that a species or its habitat can co-exist with specific types of gas field infrastructure and operations.</p> <p>m. require the proponent to plan for and decide the extent that proposed linear infrastructure may have adverse impacts on MNES in accordance with the following:</p> <p>i. all linear disturbance within environmental sensitivity category 1-4 for MNES and the impact risk zone must be:</p> <p>I. limited to 12 metres in width for a single flow line;</p> <p>II. limited to 18 metres in width for trenches with one water gathering line and one parallel gas gathering line;</p> <p>III. limited to 25 metres in width for multiple trenches where there are three parallel gas or water gathering lines or a single large diameter water pipeline (500mm or above);</p> <p>IV. limited to 30 metres in width for high pressure gas pipeline less than 750mm diameter</p> <p>V. limited to 40 metres in width for high pressure gas pipeline equal to or greater than 750mm diameter</p> <p>VI. limited to an additional 7 metres for each additional trench for water or</p>		
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<p>5 (continued)</p>	<p>gas lines.</p> <p>VII. limited to an additional 10 metres for each additional high pressure pipeline or large diameter water pipeline (500mm or above)</p> <p>VIII. limited to disturbance within identified infrastructure corridors</p> <p>IX. where feasible, trenches, pipelines for associated water and other transmissions lines must be co-located to reduce total disturbance on MNES</p> <p>X. co-location will not be implemented where an assessment has determined that it is likely to increase impacts on MNES</p> <p>Note 1: These widths include provision for a utility corridor and access track.</p> <p>ii. In limited circumstances only (e.g. river crossings, where there are abnormal access constraints into a gas processing facility and when within close proximity to other proponent’s linear infrastructure), increased corridor widths within areas of MNES may be required. In those circumstances a risk based site assessment will be completed to determine disturbance to MNES, identify management measures to minimise impacts to MNES and to justify the additional disturbance to MNES. The assessment will be available to the Department prior to any disturbance.</p> <p>Note: any disturbance referred to in this condition would be subtracted from the disturbance limits specified elsewhere in these conditions.</p> <p>n. support bioregional corridors for listed threatened species and migratory species, and connectivity for listed threatened ecological communities;</p> <p>o. ensure site assessments and field ecological surveys:</p> <p>i. are undertaken in accordance with the Department’s survey guidelines in effect at the time of the survey. This information can be obtained from http://www.environment.gov.au/epbc/guidelines-policies.html#threatened;</p> <p>ii. take into account and reference previous ecological surveys undertaken in the area and relevant new information on likely presence or absence of MNES;</p> <p>iii. are undertaken by a suitably qualified ecologist approved by the Department for sensitivity categories 1-4;</p> <p>iv. are undertaken by a suitably qualified environmental officer for sensitivity categories 5-7;</p>		
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<p>5 (continued)</p>	<p>v. document the survey methodology, results and significant findings in relation to MNES.</p> <p>vi. apply best practice site assessment and ecological survey methods appropriate for each listed threatened species, migratory species, their habitat and listed ecological communities; Note: Best practice includes applying the optimum timing and frequency of site assessments and surveys to determine presence of listed threatened species or migratory species or their habitat, or a listed threatened ecological community.</p> <p>vii. apply the mapping of environmental constraints class sensitivity category 1-4; the infrastructure location requirements; minimum no impact zones; impact risk zones; and the width requirements for linear infrastructure corridors described in (m);</p> <p>viii. reports are published by the proponent on the internet 20 business days before clearance of native vegetation in an infrastructure impact area and provided to the Department on request;</p> <p>p. require species and ecological community management plans which include:</p> <p>i. relevant avoidance and mitigation measures to be applied;</p> <p>ii. measures for protecting each listed threatened species and migratory species and their habitat, and each listed threatened ecological community not previously assessed by the proponent, should one or more be found in the project area at any time over the life of the project. Any such management plans must be developed in a timeframe to be approved by the Department. Notification of additional MNES found must be provided to the Department in writing within 10 business days. Measures must include the development of a management plan consistent with requirements under condition 8;</p> <p>q. ensure constraints planning and field development decisions are made in accordance with the Protocol (including any relevant species and ecological community management plans) before final selection of specific sites for gas field development within the project area.</p>		
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Condition No.	Condition	Status	Compliance Statement
6	The Protocol must ensure relevant information on MNES is available and used by the proponent to support field development and management decisions throughout the life of the project.	Compliant /Closed	The Constraints Planning and Field Development Protocol (Q-LNG01-15-MP-0109) satisfies this condition. The latest version of the Protocol was approved on 12 February 2021. This condition was revoked by the department on the 12th Feb 2021.
Management plans for listed species and ecological communities			
7	Before commencement of each major stage of gas field development the proponent must develop management plans for that area, which include terrestrial ecology habitat management guidelines, addressing each listed species and listed ecological community that, as indicated through assessment or more recent information, may be potentially impacted by that stage of gas field development within the project area, or external to the project area. The management plans must address as a minimum, the ecological communities and species and their habitat as specified in Tables 1, 2, and 3 of these conditions. (see EPBC 2009/4974 variation 15-Jul-13) Note 1: The proponent may develop management plans to align with the requirements of the Queensland Government where there are species and ecological communities covered by both Queensland requirements and the requirements of this approval. Note 2: Major stages of development are to be notified under condition 90.	Compliant	An overarching Management Plan and specific plans for listed species and ecological communities have been developed, approved and published on the Australia Pacific LNG website. Including: - Threatened Ecological Community Management Plan Gas Fields - Threatened Fauna Management Plan Gas Fields - Threatened Flora Management Plan Gas Fields https://www.aplng.com.au/about-us/compliance/management-plans.html

Condition No.	Condition	Status	Compliance Statement
8	<p>The management plans required under condition 7 must be developed by a qualified ecologist approved in writing by the Department and as a minimum address the following as is relevant to each MNES:</p> <ul style="list-style-type: none"> a. current legal status (under EPBC Act); b. known distribution; c. known species’ populations and their relationships within the region; d. extent of ecological community fragmentation within the region and if appropriate minimum patch size for that community; e. to support field identification and ecological surveys, description of the relevant characteristics of the ecological community; f. species’ biology, reproduction and description of general habitat; g. to support field identification and ecological surveys, description of the species’ habitat, which may be described in terms of essential habitat and microhabitat, associations with geology, soils, landscape features, associations with other native fauna and/or flora or ecological communities, and specific niche habitat descriptions; <p>Note: Constraints mapping may be limited by available data for many species and may therefore be inadequate to map habitat requirements for planning and management purposes, or to indicate presence without on ground assessment. Condition 8 (g) requires the essential components of a species’ habitat to be described where relevant to support field identification and environmental constraints decision making. This should include essential habitat components for widely distributed species present in low numbers and for other species likely to be present but not often observed.</p> <ul style="list-style-type: none"> h. threats to MNES relating to the development and management of land within the gas fields including from the development, operation and decommissioning of infrastructure within the gas fields; and from groundwater extraction and aquifer depressurisation, CSG water use and disposal, whether the threat is within or outside the gas field development area; 	Compliant	<p>An overarching Management Plan and specific plans for listed species and ecological communities have been developed, approved and published on the Australia Pacific LNG website. Including:</p> <ul style="list-style-type: none"> - Threatened Ecological Community Management Plan Gas Fields - Threatened Fauna Management Plan Gas Fields - Threatened Flora Management Plan Gas Fields <p>https://www.aplng.com.au/about-us/compliance/management-plans.html</p>

<p>8 (continued)</p>	<p>Note: This part of a management plan may also indicate that a species or its habitat can co-exist with specific types of gas field operations.</p> <p>I. relevant management practices and methods to minimise impact and recover from impact that should include:</p> <ul style="list-style-type: none"> i. site rehabilitation timeframes, standards and methods; ii. use of sequential clearing to direct fauna away from an impact zone; iii. re-establishment of native vegetation in linear infrastructure corridors; iv. welfare and safe handling of fauna specimens requiring relocation from impact sites; v. handling practices for flora specimens; vi. translocation practices and monitoring for translocation success; vii. monitoring methods including for rehabilitation success and recovery; j. surface and ground water quality and quantity requirements, including relevant downstream environmental quality parameters; k. reference 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. <p>Note 1: The management plans must include sufficient detail to inform field development decisions, ongoing management and decommissioning, and management external to the project area to minimise impacts on MNES through the life of the project.</p> <p>Note 2: To the extent that the requirements of condition 8 are satisfied for each species, a single plan may be prepared to address a group of species which have similar ecological characteristics and habitat needs. Other conditions also require species or ecological community management plans to be developed in certain circumstances in accordance with condition 8.</p>		
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Condition No.	Condition	Status	Compliance Statement
9	Each species and ecological community management plan must be submitted for the approval of the Minister. Commencement of each major stage of gas field development within the project area must not occur without written approval of a plan for addressing each listed species and ecological community within the proposed area of development. The proponent may undertake activities that are critical to commencement that are associated with mobilisation of plant and equipment, materials, machinery and personnel prior to the start of development only if such activities will have no adverse impact on MNES, and only if the proponent has notified the Department in writing before an activity is undertaken. Approved species and ecological community management plans must be implemented.	Compliant	An overarching Management Plan and specific plans for listed species and ecological communities have been developed, approved and published on the Australia Pacific LNG website. Including: <ul style="list-style-type: none"> - Threatened Ecological Community Management Plan Gas Fields - Threatened Fauna Management Plan Gas Fields - Threatened Flora Management Plan Gas Fields https://www.aplng.com.au/about-us/compliance/management-plans.html
10	The proponent must establish a program for routine review of the species and ecological community management plans to be undertaken by a qualified ecologist approved by the Department (with other experts as appropriate) to take into account any new information available to the proponent, including any information and advice provided by Commonwealth or Queensland Government agencies, or available from other CSG proponents.	Compliant	An overarching Management Plan and specific plans for listed species and ecological communities have been developed approved and published on the Australia Pacific LNG website. Including: <ul style="list-style-type: none"> - Threatened Ecological Community Management Plan Gas Fields - Threatened Fauna Management Plan Gas Fields - Threatened Flora Management Plan Gas Fields https://www.aplng.com.au/about-us/compliance/management-plans.html
11	The Minister may require, by request in writing, the periodic review of the species and ecological community management plans, either by the Department; or alternatively by an independent qualified ecologist, or other experts, approved by the Department.	Not triggered	No request has been received from the Minister.

Condition No.	Condition	Status	Compliance Statement
12	Independent review of plans will be at the financial expense of the proponent. Once independently reviewed, plans must be submitted for written approval by the Department. Approved plans must be implemented.	Not triggered	As per comment above for condition 11, no request has been received from the Minister.
Record of Impacts			
13	<p>If an impact occurs (which may include a presumed impact where the species is presumed to be present) to a MNES during gas field development, operation, or decommissioning the proponent must:</p> <p>a. record the impact by reference to:</p> <ul style="list-style-type: none"> i. the location, specific site and type of infrastructure or activity; ii. each MNES subject to disturbance; iii. the related site assessment or field ecological survey documentation and recommendations, or the decision that the particular MNES was presumed to be present; iv. the disturbance limit set under condition 25; v. the total area of actual disturbance; vi. the remaining disturbance limit for each affected MNES; vii. the reasons for the decision including justification for the action taken, description of the efforts taken to avoid impact, and explanation why other constraints might justify the impact on MNES; viii. actions and commitments by the proponent to remediate, rehabilitate, or make good any unauthorised disturbance; and <p>Note: This condition applies to any adverse impact on MNES, whether or not a disturbance limit has been set, and whether or not the impact has been decided by the proponent under the Protocol based on other physical constraints.</p> <p>b. record the information to a standard which can be independently audited.</p>	Compliant	<p>The process for documenting impact is included in the Environmental Constraints Planning and Field Development Protocol, which has been approved by the Department and is on the Australia Pacific LNG website.</p> <p>Rehabilitation requirements for any disturbance impacts are addressed in the Remediation Rehabilitation Recovery and Monitoring Plan (RRRMP) (Q-LNG01-15-MP-0107).</p> <p>The justification for the action taken, description of the efforts to avoid impact are documented in the relevant pre-clearance survey reports.</p> <p>During the 2015-2016 reporting period, an independent audit found that although disturbance to Threatened Ecological Communities (TEC's) is analysed and assessed, disturbance to potential habitat for listed fauna is not.</p> <p>Origin Energy, as the Upstream Operator of APLNG, has been engaging with the Department regarding approval of habitat methodology modelling.</p>

Condition No.	Condition	Status	Compliance Statement
13 (continued)			The new habitat model was presented to the Department on 5 September 2016 and submitted on 9 September 2016 for assessment and approval. Updated Plans have been submitted the Department.
Site Remediation, Rehabilitation and Recovery Plan			
14	Where a direct or indirect impact has occurred to MNES (which may include a presumed impact where the species is presumed to be present) the proponent must under the Protocol apply remediation, rehabilitation and recovery measures appropriate for each MNES to restore connectivity or rehabilitate disturbed areas to pre-clearance quality or better, and to minimise cumulative impacts throughout the life of the project. Note: Instances where presumed to be present has been determined are identified in volumes 2 and 3 of the EIS.	Compliant	Management measures are outlined in the RRRMP. Management measures and rehabilitation goals identify the species management plans as tools for MNES recovery.
15	Before commencement of gas field development the proponent must develop a Remediation, Rehabilitation, Recovery and Monitoring Plan. The Plan must: a. include site remediation measures including timeframes and standards for preventing erosion and stabilising disturbed soil in impact areas; b. include measures to support recovery of listed species' habitat and recovery of listed ecological communities affected by gas field development; c. include responses to threats to MNES from the proponent's operational activities and land management activities including the disposal and use of associated water, damage by livestock, and impacts from feral animals and weeds; d. provide for fire prevention and management regimes during construction, operation, and decommissioning to protect MNES; e. include performance measures and related monitoring to assess site remediation, rehabilitation and recovery;	Closed	The RRRMP was approved by the Department on 1 September 2011 and a copy is on the Australia Pacific LNG website.

Condition No.	Condition	Status	Compliance Statement
15 (continued)	<p>f. provide for reporting on the implementation of the Remediation, Rehabilitation, Recovery and Monitoring Plan including monitoring and performance to a standard which can be independently audited;</p> <p>g. reference relevant conservation advice, recovery plans, species management plans, or policies, practices, standards or guidelines endorsed or approved from time to time by the Department.</p> <p>Note: The proponent may develop the plan to satisfy the requirements of both the Queensland Government and these conditions as indicated in condition 100 (b).</p>		
16	<p>The Remediation, Rehabilitation, Recovery and Monitoring Plan must be submitted for the approval of the Minister. Commencement of gas field development must not occur without approval of this Plan. The proponent may undertake activities that are critical to commencement that are associated with mobilisation of plant and equipment, materials, machinery and personnel prior to the start of development only if such activities will have no adverse impact on MNES, and only if the proponent has notified the Department in writing before an activity is undertaken. The approved Remediation, Rehabilitation, Recovery and Monitoring Plan must be implemented.</p>	Compliant	<p>The RRRMP was approved by the Department on 1 September 2011 and a copy is on the Australia Pacific LNG website.</p> <p>On 23 December 2016, APLNG notified the Department of instances where minor management measures set out in the RRRMP that had not been fully implemented during construction. Actions have been undertaken to rectify the matter. No impact to protected species, habitat or environmental harm was observed as a result. The RRRMP has been reviewed, updated and submitted to the Department on 8 March 2017 for approval.</p>
17	<p>The proponent must establish a program to routinely review the Remediation, Rehabilitation, Recovery and Monitoring Plan by an independent qualified ecologist, or other experts, approved by the Department to take into account any new information available to the proponent, including any information and advice provided by Commonwealth or Queensland Government agencies, or available from other CSG proponents.</p>	Compliant	<p>Review of the RRRMP commenced during the reporting period. The RRRMP has been reviewed, updated and submitted to the Department on 8 March 2017 for approval.</p>

Condition No.	Condition	Status	Compliance Statement
18	The Minister may require through a request in writing the periodic review of the Remediation, Rehabilitation, Recovery and Monitoring Plan by the Department, or alternatively by an independent qualified ecologist, or other experts, approved by the Department. Plans must be approved by the Department in writing.	Not triggered	No request to review the RRRMP has been received from the Minister.
19	Independent review of plans will be at the financial expense of the proponent. Once independently reviewed, plans must be submitted for written approval by the Department. Approved plans must be implemented.	Not triggered	As per comment above for condition 18, this condition has not been triggered.
Approval and Review of Protocol			
20	The Protocol must be submitted for the approval of the Minister. Commencement of gas field development must not occur without written approval of the Protocol. The approved Protocol must be implemented.	Compliant	The Protocol was approved with other Phase 1 Management Plans on 1 September 2011. This condition was revoked by the department on the 12th of February 2021.
21	The Protocol and related plans must be reviewed and updated by the proponent to take into account the findings of Cumulative Impact Assessment Reports required by the Queensland Government before each major stage of the proponent's gas field development; or following a written request from the Department. Reviewed and updated Protocols and plans must be submitted for the Minister's written approval. Once approved, updated Protocols and plans must be implemented. Note 1: relevant studies include the Queensland Water Commission Cumulative Groundwater Model for the Surat and South Bowen Basin and findings of the CSG Industry Monitoring Group (CIMG). Note 2: The review required following completion of the Cumulative Impact Assessment Report required by the Queensland Government may be done after approval of the Protocol. The Department may seek review of	Compliant	All plans have been submitted and approved by the Department.

Condition No.	Condition	Status	Compliance Statement
21 (continued)	the Protocol to align with Queensland Government requirements to support efficiency and avoid duplication.		
22	The proponent's review of the Protocol must take into account all relevant studies, policies, standards, guidelines and advice relating to CSG activity published or provided to the proponent by the Commonwealth or Queensland governments, or published or provided by other proponents undertaking similar activities, or published or provided by other parties, including any findings of an audit against conditions, or plans or other documentation required under the conditions of this approval.	Compliant	The Constraints Planning and Field Development Protocol (Q-LNG01-15-MP-0109), which covers Gas field development, was originally approved by the Department on 1 September 2011. The latest version of the Protocol was approved on 12 February 2021. This condition was also revoked on the 12th Feb 2021.
23	The Department may require, by a request in writing, that the Protocol and related plans be revised or amended before approval. Any such request must be acted on within the time frame specified.	Not triggered	No request has been received from the Department. This condition was revoked on the 12 Feb 2021.
24	The approved Protocol must be incorporated into the proponent's management procedures, operational plans and other relevant documentation and kept current for the like of the project.	Compliant	The Protocol has been referenced and the requirements incorporated in Environmental Management Plans as required and approved by State authorities. The requirements of the Protocol are documented and applied in pre-clearance survey reports.
Disturbance Limits			
25	The maximum disturbance limits in Table 2 and Table 3 (see EPBC 2009/4974 variation 15-Jul013) apply to authorised unavoidable adverse impacts on MNES within the project area as a result of exploration, development, operation and decommissioning within the project area illustrated in Attachment 1, and external to it, ('whole of project' disturbance limits) and all associated activities.	Compliant	During the 2015-2016 reporting period, an independent audit found that although disturbance to Threatened Ecological Communities (TEC's) is recorded, disturbance to potential habitat for listed fauna is not.
25 (continued)	Note: Table 2 is derived from the Australia Pacific LNG Environmental		Origin Energy, as the Upstream Operator of APLNG, has been engaging with the Department regarding approval of habitat methodology modelling.

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Condition No.	Condition	Status	Compliance Statement
	<p>Offset Strategy of 16 November 2010; Volume 2: Gas Fields, Chapter 23: Matters of National Environmental Significance including Section 23.4 EPBC Act significant impact criteria assessment of the APLNG EIS of March 2010; and from listed ecological community profiles available on the Department's website.</p> <p>* Disturbance limits for Brigalow Scaly-foot and Yakka Skink and Dunmall's Snake potential habitat are derived as per the fauna habitat reduction methodology applied in Australia Pacific LNG - Fauna habitat Calculations for the Gas Fields Q-LNG01-15-RP-0014 of 16 November 2010.</p> <p>Note1 : Table 3 is derived from Volume 2: Gas Fields, Chapter 23: Matters of National Environmental Significance including Section 23.4 EPBC Act significant impact criteria assessment of the APLNG EIS of March 2010; Australia Pacific LNG - Fauna habitat Calculations for the Gas Fields Q-LNG01-15-RP-0014 of 16 November 2010; and from listed threatened species profiles available on the Department's website.</p> <p>Note 2: Habitat for species in Table 3 will be described in the management plan for each species as required under condition 8. The habitat described in Table 3 is for general context and indicative only.</p>		<p>In December 2013 a habitat methodology model was provided to the Department for review and approval. The Model was reviewed by a third party agent of the Department and comments provided to Origin in May and July 2015. The existing model could not be adapted to include all changes recommended by the review.</p> <p>As a result, Origin Energy tendered a company, with experience developing approved habitat methodology models, to develop a new model that includes considerations raised during review of the previous model.</p> <p>The new habitat model was presented to the Department on 5 September 2016 and submitted on 9 September 2016 for assessment and approval. APLNG is awaiting final approval from the Department.</p> <p>An approved habitat model will enable revised modelling of Yakka Skink and Dunmall's Snake and assessment and further analysis of disturbance to potential habitat.</p> <p>Updated plans have been submitted to the Department.</p>
26	The gas field activities must not have a significant impact on the Narran Lakes Wetlands.	Compliant	No potential impact on MNES associated with Narran Lakes from APLNG activities.

Condition No.	Condition	Status	Compliance Statement
Offsets			
Plan to secure offsets - gas fields			
27 27 (continued)	<p>The proponent must prepare an Offset Plan to provide an offset area for the approved disturbance limits relating to MNES within the project area. The offset area to be secured must be an area of private land which includes at least:</p> <ul style="list-style-type: none"> a. 73.44 ha of potential Egernia rugosa (Yakka Skink) habitat which includes micro habitat required for the species; and b. 262.49*ha of potential Furina dunmali (Dunnell's Snake) habitat which includes micro habitat required for the species; and c. 41.36 ha of Semi-evergreen vine thickets of the Brigalow Belt (North and South) and Nandewar Bioregions; and d. 1000.2 ha of Brigalow with representation of the following; <ul style="list-style-type: none"> i. 30% remnant Brigalow (Acacia harpophylla dominant and co-dominant); and ii. 70% which is a combination of: <ul style="list-style-type: none"> I. high value regrowth Brigalow; and II. other Brigalow regrowth with potential for management to remnant Brigalow status. <p>Note 1 : Offsetting requirements for some species' habitat may be accommodated within the Brigalow components if good quality habitat (according to the methodology described in Australia Pacific LNG Fauna Habitat Calculations for the Gas Fields Q-LNG01-15-RP-0014 (of 16 November 2010) is verified as present and includes specific habitat requirements for each relevant species.</p> <p>Note 2: for brigalow and semi evergreen vine thicket ecological communities, the pipeline referral (EPBS 2009/4976) offset requirements are incorporated into this approval.</p>	Compliant	Dukes Plain Offset and Rehabilitation Area Management Plan (OAMP) - Q-LNG01-15-MP-8514 revision 2 dated 19 September 2016 was approved by the Department on 20 January 2017.

Condition No.	Condition	Status	Compliance Statement
28	The Offset Plan must include details of the offset area including: the timing and arrangements for securing properties, maps and site description, environmental values relevant to MNES, connectivity with other habitats and biodiversity corridors, a rehabilitation program, and mechanisms for long-term protection, conservation and management	Compliant	Dukes Plain Offset and Rehabilitation Area Management Plan (OAMP) - Q-LNG01-15-MP-8514 revision 2 dated 19 September 2016 was approved by the Department on 20 January 2017. The OAMP addresses this condition
29	The Offset Plan must be submitted for the approval of the Minister within 9 months of the commencement of the action. The approved Offset Plan must be implemented.	Compliant	The Australia Pacific LNG Environmental Offset Program (Q-LNG01-15-MP-0086) was submitted to the Department on 21 November 2012. A revised plan (Q-LNG01-15-MP-8514) was developed, updated with further ecological assessment undertaken in April 2015, and re-submitted in September 2015. Dukes Plain Offset and Rehabilitation Area Management Plan (OAMP) - Q-LNG01-15-MP-8514 revision 2 dated 19 September 2016 was approved by the Department on 20 January 2017.
30	If the approved Offset Plan cannot be implemented because of failure of arrangements to secure the necessary area of private land then the proponent must submit for the Minister's approval an alternative Offset Plan. The alternative Offset Plan must provide at least an equivalent environmental outcome to those specified under condition 27(a) to (d). The approved alternative Offset Plan must be implemented.	Not triggered	Refer to comment above for condition 29. There is no requirement to prepare and submit an alternative Offset Plan.
31	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	Not triggered	Condition has not been triggered, no non-offset activities are proposed/undertaken.

Condition No.	Condition	Status	Compliance Statement
	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.		
32 32 (continued)	The proponent must secure the offset within 4 years of commencement.	Compliant /Closed	<p>Based on the commencement date of 19 October 2011, the offset was originally scheduled to be secured by 19 October 2013. While access to the property was secured when the property was purchased in November 2013, extensions have been granted to accommodate delays encountered in legally securing the offset. Conditions 32, 35, 38 and 41 were amended on 24 October 2014. This allowed Australia Pacific LNG to secure an additional offset property (and submit associated plans) by 19 October 2015.</p> <p>On 19 October 2015, the Department was notified that the Dukes Plain offset Deed of Agreement is currently undergoing the final review stages prior to being signed off. Further liaison with former Queensland Department of Environment and Heritage Protection was required to finalise the Deed of Agreement (the Department was kept informed of progress). On 23 January 2017 the Hon. Dr Steven Miles, former Queensland Minister for Environment and Heritage Protection, National Parks and the Great Barrier Reef signed off on the deed of agreement to legally secure Duke's Plain offset areas as a Nature Refuge.</p>
Offset Area Management			

Condition No.	Condition	Status	Compliance Statement
33	<p>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;</p> <ul style="list-style-type: none"> 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. management of revegetation areas to the stage where habitat is established or improved for listed species and revegetation areas meet the criteria for 'remnant status' for that threatened ecological community; e. an objective that revegetation areas for Brigalow meet the criteria applicable at the time for 'remnant status', and measures to ensure application is made to have the revegetation areas reclassified as 'remnant vegetation' in accordance with the relevant Queensland legislation; f. monitoring, including the undertaking of ecological surveys to assess the success of the management measures against identified milestones and objectives; g. 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. 	Compliant /Closed	Dukes Plain Offset and Rehabilitation Area Management Plan (OAMP) - Q-LNG01-15-MP-8514 revision 2 dated 19 September 2016 was approved by the Department on 20 January 2017.
34 34 (continued)	<p>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.</p>	Compliant /Closed	<p>Dukes Plain Offset and Rehabilitation Area Management Plan (OAMP) - Q-LNG01-15-MP-8514 revision 2 dated 19 September 2016 was approved by the Department on 20 January 2017.</p> <p>The approved OAMP is being implemented.</p>
Rehabilitation Area Offset - gas fields			

Condition No.	Condition	Status	Compliance Statement
35	<p>Within 4 years of the commencement of gas field development the proponent must secure a Rehabilitation Area Offset of at least 1209.67 hectares of privately held property to compensate for indirect adverse impacts on MNES. The proponent must:</p> <p>a. obtain ownership or a legally binding agreement from a landowner over an area of property to re-establish areas in perpetuity of the threatened Brigalow (<i>Acacia harpophylla</i> dominant and co-dominant) ecological community, Semi-evergreen vine thickets of the Brigalow Belt (North and South) and Nandewar Bioregions and associated listed migratory and listed threatened species' habitat; and</p> <p>b. notify the Department in writing within 30 business days of securing the Rehabilitation Area Offset.</p> <p>Note: The Rehabilitation Area Offset is an additional area to the Offset area required under condition 27.</p>	Compliant	<p>Based on the commencement date of 19 October 2011, the Rehabilitation Area Offset was originally scheduled to be secured by 19 October 2013. An extension was obtained until 19 October 2015.</p> <p>On 19 October 2015, the Department was notified that the Dukes Plain offset Deed of Agreement is currently undergoing the final review stages prior to being signed off. Further liaison with former Queensland Department of Environment and Heritage Protection was required to finalise the Deed of Agreement (the Department was kept informed of progress). On 23 January 2017 the Hon. Dr Steven Miles, former Queensland Minister for Environment and Heritage Protection, National Parks and the Great Barrier Reef signed off on the deed of agreement to legally secure Duke's Plain offset areas as a Nature Refuge.</p> <p>The Colamba offset also meets this condition with the Colamba Offset Area Management Plan (OAMP) Q-LNG01-15-MP-1123 revision 2 dated 15 December 2016, approved by the Department on 21 December 2016. The Colamba offset is now legally secured with a Voluntary Declaration issued by the Department of Natural Resources and Mines on 23 May 2017.</p>
36	<p>The Rehabilitation Area Offset must:</p> <p>a. be within historical distributions of the ecological community (before clearing occurred) and as close as possible to the project area;</p> <p>b. include intact elements of remnant and/or high value regrowth of the ecological communities; and</p> <p>c. include or have potential for providing habitat and micro habitat</p>	Compliant	Addressed in the approved Duke Plains and Colamba OAMPs.

Condition No.	Condition	Status	Compliance Statement
	requirements for listed migratory and threatened species (i.e. those in Table 3 that relate to this ecological community).		
37	If, within 2 years of the commencement of gas field development the Rehabilitation Area Offset has not been secured, then the proponent must within 30 business days, notify the Minister and provide for the Minister's approval an alternative offset measure. The alternative must provide at least an equivalent environmental outcome to those specified in relation to the Rehabilitation Area Offset. The approved alternative must be secured and implemented in accordance with conditions 35 and 36 in a timeframe specified in writing by the Minister.	Not triggered	Refer to comment above for condition 35. There is no requirement to provide an alternative offset measure.
Rehabilitation Area Plan			
38	Within 4 years of the commencement of gas field development, the proponent must prepare a Rehabilitation Area Plan for the offset required under condition 35.	Compliant	Duke Plains and Colamba OAMPs were submitted for approval in September and October 2015. Dukes Plain Offset and Rehabilitation Area Management Plan (OAMP) - Q-LNG01-15-MP-8514 revision 2 dated 19 September 2016 was approved by the Department on 20 January 2017. Colamba Offset Area Management Plan (OAMP) Q-LNG01-15-MP-1123 revision 2 dated 15 December 2016, approved by the Department on 21 December 2016.
39	The Rehabilitation Area Plan must provide for commitments and actions to lead to the increase in the spatial extent and improvement in the condition of existing remnants, and for the establishment of new self-sustaining, functional 'remnant vegetation' communities, consistent with that which existed prior to clearing and with the capacity to provide habitat for the species identified in condition 25 as unavoidably impacted by the action.	Compliant	The approved OAMPs address this condition.

Condition No.	Condition	Status	Compliance Statement
40	<p>The Rehabilitation Area Plan must include:</p> <ul style="list-style-type: none"> a. details of the area to be rehabilitated including location and maps; b. documentation including mapping of current environmental values relevant to MNES of the area; c. where revegetation through planting seedlings and/or seeds is intended details of appropriate species and ratios of species relevant to historically occurring listed migratory and threatened species' habitat, Brigalow (<i>Acacia harpophylla</i> dominant and co-dominant) ecological community, and Semi-evergreen vine thickets of the Brigalow Belt (North and South) and Nandewar Bioregions ecological community; d. the source and provenance of the seed and/or seedlings which will be used; e. 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; f. measures to provide fire management regimes appropriate for the MNES; g. monitoring measures including ecological surveys to measure the establishment and ongoing success of the revegetation based on a comparison with high quality habitat for listed migratory and threatened species and ecological community reference sites; h. 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. 	Compliant	The approved OAMPs address this condition.
41	<p>Within 4 years of the commencement of gas field development the Rehabilitation Area Plan must be submitted for the approval of the Minister. The approved Rehabilitation Area Plan must be implemented.</p>	Compliant	<p>Dukes Plain Offset and Rehabilitation Area Management Plan (OAMP) - Q-LNG01-15-MP-8514 revision 2 dated 19 September 2016 was approved by the Department on 20 January 2017.</p> <p>Colamba Offset Area Management Plan (OAMP) Q-LNG01-15-MP-1123 revision 2 dated 15 December 2016, approved by the Department on 21 December 2016.</p> <p>Both OAMPs are being implemented.</p>

Condition No.	Condition	Status	Compliance Statement
<p>42</p> <p>42 (continued)</p>	<p>To ensure the long term protection of the Rehabilitation Area the proponent must:</p> <ul style="list-style-type: none"> a. manage Brigalow and Semi-evergreen Vine Thickets of the Brigalow Belt (North and South) and Nandewar Bioregions components of the Rehabilitation Area to a stage where they meet the respective criteria for 'remnant status' for the Brigalow (<i>Acacia harpophylla</i> dominant and co-dominant) ecological community and 'remnant status' for the Semi-evergreen Vine Thickets of the Brigalow Belt (North and South) and Nandewar Bioregions; b. when areas of revegetation meet criteria applicable at the time for 'remnant vegetation' ensure application is made to have the revegetation areas remapped and reclassified as 'remnant vegetation' in accordance with the relevant Queensland legislation. The management measures must continue to be implemented in areas not meeting the criteria for 'remnant status' until this has been achieved (or until approval to cease the management regime is provided by the Minister in writing); c. define corrective actions which will be undertaken if performance measures and reporting indicate that successful rehabilitation has not been achieved; d. identify persons responsible and arrangements for implementing the Rehabilitation Area Plan and for reporting on performance; and e. notify the Department in writing of the reclassification of areas within the Rehabilitation Area as 'remnant vegetation' within 30 business days of the reclassification occurring. 	<p>Compliant</p>	<p>The approved OAMPs address this condition.</p>
<p>43</p>	<p>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</p>	<p>Not triggered</p>	<p>Condition has not been triggered; no non-offset activities are undertaken or proposed.</p>

Condition No.	Condition	Status	Compliance Statement
	offset and alternative offsets secured of equal or greater environmental value in relation to the impacted MNES.		
CSG Water Management			
44	The proponent must: <ol style="list-style-type: none"> a. take all reasonable measures to ensure that CSG water, including extracted groundwater, treated or amended CSG water, and any associated waste water, brine crystals and/or solids generated as a result of treating or amending water have no significant impact on any MNES during or beyond the life of the project; b. ensure that aromatic hydrocarbons are detailed as part of the toxicity assessment in condition 50f; and c. if any such impacts arise apply measures identified in the Coal Seam Gas Water Monitoring and Management Plan, or other requirements under these conditions, to mitigate or make good such impacts to the satisfaction of the Minister. 	Compliant	Appropriate water management processes are undertaken and documented in the approved and implemented Stage 1 and Stage 2 CSG Water Monitoring and Management Plan (WMMP).
CSG Water Monitoring and Management Plan			
Hydraulic Connection			
45	If the proponent demonstrates to the satisfaction of the Minister, on the advice of the expert panel, that an aquifer has negligible hydraulic connectivity to other aquifers, then groundwater drawdown limits and threshold values (for groundwater drawdown and quality) for response measures in these conditions do not apply to that aquifer.	Not triggered	This condition is not applicable because activities are undertaken under the approved WMMP.

Condition No.	Condition	Status	Compliance Statement
46	To avoid doubt, monitoring and risk management requirements in the Stage 1 Coal Seam Gas Water Monitoring and Management Plan (Stage 1 CSG WMMP) and the Stage 2 Coal Seam Gas Water Monitoring and Management Plan (Stage 2 CSG WMMP) (outlined below) will continue to apply to any aquifer which the proponent has demonstrated to the satisfaction of the Minister, on the advice of the expert panel, has negligible hydraulic connectivity to other aquifers.	Not triggered	Activities are undertaken under the approved WMMP.
47	If the Minister, acting on advice of an expert panel, is satisfied that new evidence indicates a material change in hydraulic connectivity of an aquifer to which condition 45 applies, the Minister may notify the proponent, in writing, that condition 45 does not apply to that aquifer.	Not triggered	Not applicable, activities are undertaken under the approved WMMP.
Default Drawdown			
48	Within 20 business days from the date of the project approval, or such longer period specified by the Minister in writing, the proponent must submit to the satisfaction of the Minister, modelled groundwater drawdown contour data and contour plots for each potentially impacted aquifer.	Closed	No update since the 2013-2014 AER. No further action required.
49	The Minister, having regard to the minimum drawdown prediction from the proponent's Environmental Impact Statement and the information supplied under condition 48, will specify to the proponent, in writing, the default groundwater drawdown limit for each aquifer that will apply until the Minister's approval of the Stage 1 CSG WMMP. The proponent must not exceed the groundwater drawdown limits specified by the Minister.	Closed	Condition expired with approval of Stage 1 CSG WMMP.
Stage 1 CSG Water Monitoring and Management Plan			

Condition No.	Condition	Status	Compliance Statement
50	<p>Within 6 months from the date of the project approval, the proponent must submit for the approval of the Minister a Stage 1 Coal Seam Gas Water Monitoring and Management Plan (Stage 1 CSG WMMP) which includes at least:</p> <p>Groundwater monitoring and management</p> <ul style="list-style-type: none"> a. groundwater drawdown limits for each potentially impacted aquifer; b. a program and schedule for aquifer connectivity studies and monitoring of relevant aquifers to determine hydraulic connectivity; c. a program and schedule for field piloting of aquifer reinjection of treated CSG water and other groundwater repressurisation techniques; d. early warning indicators where drawdown thresholds are being approached. <p>Hydraulic fracturing</p> <ul style="list-style-type: none"> e. the estimated number, the spatial distribution and location of boreholes where hydraulic fracturing may be necessary, annual reviews of the estimate; f. details of constituent components of any hydraulic fracturing agents and any other reinjected fluid(s), and their toxicity as total effluent toxicity and ecotoxicity, based on methods outlined in the National Water Quality Management Strategy <p>Surface water monitoring and management;</p>	Closed	Stage 1 CSG WMMP has been superseded by the Stage 2 CSG WMMP.
50 (continued)	<ul style="list-style-type: none"> g. an ongoing water quality and quantity surface water monitoring plan that includes at least: i. identification of the surface and aquatic systems to be monitored and their environmental values, water quality, and environmental characteristics, and the rationale for selection; ii. the number and locations of monitoring sites upstream and downstream of proposed discharge of CSG water (whether treated water, amended water or raw water), including test and reference sites upstream and downstream and before and after any discharge; iii. the frequency of the monitoring and rationale for the frequency; iv. baseline data for each monitoring site for comparison of monitoring 		

Condition No.	Condition	Status	Compliance Statement
50 (continued)	<p>results over the life of the project;</p> <p>v. the approach to be taken to analyse the results including the methods to determine trends to indicate potential impacts;</p> <p>vi. threshold values that protect relevant MNES (such as reporting or control line values for additional investigation, more intensive management action, make good, and cease operations) at which management actions will be initiated to respond to escalating levels of risk and designed to protect water quality and the associated environmental values of surface and aquatic systems;</p> <p>vii. water treatment and amendment methods and standards;</p> <p>viii. water storage locations and volumes including any storage and volumes required to pilot or implement reinjection or other groundwater repressurisation techniques;</p> <p>ix. water use or disposal options and methods (whether for beneficial use or not) including frequency, volumes, quality and environmental values documented for each receiving environment;</p> <p>x. brine storage locations and volumes, and brine crystal waste management;</p> <p>xi. emergency water discharges, their volumes and quality;</p> <p>xii. references to standards and relevant policies and guidelines;</p> <p>Response actions</p> <p>h. mechanisms to avoid, minimise and manage risk of adverse impacts and response actions and timeframes that can be taken by the proponent if:</p> <p>i. threshold values for surface water quality and water environmental values specified in the CSG WMMP are exceeded;</p> <p>ii. there are any unforeseen emergency discharges; and</p> <p>Reporting</p> <p>i. performance measures, annual reporting to the Department, and publication of reports on the internet.</p> <p>Note: A key objective of the CSG WMMP groundwater components is to maintain or restore aquifer pressure, as affected by CSG production, to levels that avoid risk of adverse impact on MNES.</p>		

Condition No.	Condition	Status	Compliance Statement
51	The proponent must implement the Stage 1 CSG WMMP approved in writing by the Minister, on the advice of an expert panel. The proponent must not exceed the groundwater drawdown limits for each aquifer specified in the Stage 1 CSG WMMP. The Stage 1 CSG WMMP will apply until the commencement of the approved Stage 2 CSG WMMP.	Closed	The Stage 1 CSG WMMP has been superseded by the Stage 2 CSG WMMP.
Stage 2 CSG Water Monitoring and Management Plan			
52	Within 18 months from the date of the approval of the action the proponent must submit for the approval of the Minister, a Stage 2 Coal Seam Gas Water Monitoring and Management Plan (Stage 2 CSG WMMP). The proponent must allow a further 3 months for the Minister’s consideration of approval of the Stage 2 CSG WMMP including seeking advice from an expert panel.	Closed	Stage 2 CSG WMMP was submitted on 11 March 2014 and approved for use on 27 March 2014.
53 53 (continued)	In addition to the matters in the Stage 1 CSG WMMP, the Stage 2 CSG WMMP must also include: Groundwater monitoring and management a. an ongoing CSG water treatment program to ensure that any water to be used for re-injection, or used for other groundwater re-pressurisation options, is treated at least equal to the water quality of the receiving groundwater system or environment; b. the method, data and the evidentiary standards necessary to support a conclusion that an aquifer from which CSG water is being extracted is not hydraulically connected to other aquifers; c. a groundwater quality and quantity monitoring plan to monitor the aquifers underlying the project area using a statistically and hydro geologically valid, best practice bore monitoring network across the project area, and at least; i. the aquifers to be monitored and the rationale for selection; ii. the number and locations of monitoring bores and their flow, pressure, head, and water quality characteristics; iii. the frequency of the monitoring and rationale for the frequency; iv. baseline data for each monitoring site for comparison of monitoring results over the life of the project; v. the approach to be taken to analyse the results including the	Compliant	Stage 2 CSG WMMP, submitted on 11 March 2014 and approved for use on 27 March 2014. On 19 August 2016 APLNG submitted an independent audit to the department that found: The Stage 2 CSG WMMP doesn’t include a requirement to annually review the number of boreholes where hydraulic fracturing may be required. A review does occur annually and the relevant component of the plan has been updated and submitted to the Department for approval. The Stage 2 CSG WMMP doesn’t specifically document water quality characteristics for all parameters in the plan. It was noted that the absent characteristics were assessed and recorded in the subsequent Groundwater Monitoring Reports.

Condition No.	Condition	Status	Compliance Statement
	<p>methods to determine trends to indicate potential impacts; vi. groundwater drawdown threshold values and groundwater quality threshold values for each aquifer (based on regional groundwater modelling endorsed by the Minister) at which management actions (such as reporting or control line values for additional investigation, more intensive management action, make good, and cease operations) will be initiated to respond to escalating levels of risk, including increasing levels of drawdown, contamination of groundwater, or subsidence; vii. references to standards and relevant policies and guidelines; viii. mechanisms to monitor, avoid, minimise, manage, and respond to risks; and ix. performance measures, annual reporting to the Department, and publication of reports on the internet;</p>		<p>The Stage 2 CSG WMMP was updated to include all relevant water quality characteristics. The updated Stage 2 CSG WMMP was submitted to the Department for approval in April 2017.</p> <p>APLNG is awaiting final approval from the Department. The last correspondence date regarding this matter is 10 March 2018. Discussions with the Department are ongoing.</p>
53 (continued)	<p>Note 1: Threshold values will be identified in the plan and during the life of the approval and related conditions may be varied by the Minister on advice from an expert panel to reflect the best available data and scientific information.</p> <p>Note 2: For clarity, the monitoring required under this condition may be undertaken jointly with others. Response actions d. an exceedance response plan that includes: i. mechanisms to avoid, minimise and manage risk of adverse impacts and response actions and timeframes that can be taken by the proponent if: I. threshold values for surface water quality and water environmental values specified in the CSG WMMP are exceeded; II. threshold values specified in the CSG WMMP for aquifer drawdown or groundwater contamination are exceeded; III. subsidence or surface deformation occurs which impacts on surface or groundwater hydrology; IV. there are any unforeseen emergency discharges; and ii. a program and timetable for repressurisation using re-injection of CSG water from hydraulically connected aquifers back into appropriate permeable aquifers and for other groundwater repressurisation options to re-establish pressure levels and water qualities to the satisfaction of the Minister on the advice of an expert panel, in conjunction with appropriate measures to forecast and proactively manage any short-term impacts. Note: The design of these</p>		

Condition No.	Condition	Status	Compliance Statement
	groundwater repressurisation activities should be informed by a regional-scale groundwater model.		
Implementation of Stage 1 and Stage 2 CSG WMMP			
54	The proponent must implement the approved Stage 2 CSG WMMP, no later than 31 March 2014.	Compliant	The Stage 2 CSG WMMP, approved for use on 27 March 2014, has been implemented.
55	Three months before commencement of each subsequent major stage of the proponent's gas field development the proponent must submit a revised Stage 2 CSG WMMP for approval of the Minister, who may seek the advice of an expert panel.	Not triggered	No new stage commenced during the reporting period.
56	The Coal Seam Gas Water Monitoring and Management Plan should be based on the proponent's planned staged development within the project area over the total life of the project consistent with approvals granted by the Queensland Government.	Compliant	Provided for in Stage 1 CSG WMMP and Stage 2 CSG WMMP.
57	The proponent may only have, own, hold, take, or otherwise utilise sufficient CSG water as is required to undertake the approved activities within the approved project area. Note: The purpose of this condition is to ensure that water is only extracted to the extent necessary for the extraction of coal seam gas.	Compliant	Provided for in Stage 1 CSG WMMP and Stage 2 CSG WMMP.
58	The Stage 1 and Stage 2 CSG WMMP as approved by the Minister in writing acting on advice of an expert panel and in accordance with the timing requirements under these conditions must be implemented. Note: The	Compliant	The Stage 2 CSG WMMP, approved for use on 27 March 2014, has been implemented.

Condition No.	Condition	Status	Compliance Statement
	proponent may incorporate requirements into plans that meet both Queensland and Commonwealth requirements.		
Revisions of Stage 1 and Stage 2 CSG WMMP			
59	Consistent with an adaptive management approach the Stage 2 CSG WMMP must be reviewed and updated for each new stage of gas field development: to take into account of major updates to the Regional Groundwater Model; and to address findings of Cumulative Impact Assessment Reports required by the Queensland Government and these conditions of this approval.	Compliant	<p>The Surface Water Management and the Fracture Stimulation Management Plan components of the Stage 2 CSG WMMP were updated and submitted to the Department on 12 December 2016 for approval.</p> <p>A commitment was made to review the remaining Stage 2 CSG WMMP components on a three yearly cycle consistent with the Queensland Government's Underground Water Impact Report (UWIR) cycle to meet 'major stage' requirements.</p> <p>In response to the UWIR that came into effect on 19 September 2016, the updated Stage 2 CSG WMMP was submitted to the Department for approval in April 2017.</p>
60 60 (continued)	<p>A reviewed and updated Stage 2 CSG WMMP must be submitted to the Minister for written approval. Commencement of each new stage of gas field development must not occur without approval. The proponent may undertake activities that are critical to commencement that are associated with mobilisation of plant and equipment, materials, machinery and personnel prior to the start of development only if such activities will have no adverse impact on MNES, and only if the proponent has notified the Department in writing before the activity is undertaken.</p> <p>The approved CSG WMMP must be implemented for the relevant gas field area.</p>	Compliant	The Stage 2 CSG WMMP, approved for use on 27 March 2014, has been implemented.

Condition No.	Condition	Status	Compliance Statement
61	<p>The Minister may, through a request in writing, require that the Stage 1 or Stage 2 CSG WMMP be revised or amended, which may include requirements for amendments to address independent expert advice. Any such request must be acted on within the timeframe specified.</p> <p>Note: The Minister may throughout the project life seek advice from experts, or an expert panel. As a consequence specific matters identified through such advice may need to be addressed in the Plan. Where such advice is sought the proponent would be provided with opportunity to submit information and respond to the specific matters identified, in order to ensure the Plan is based on the best available information. Review requirements will facilitate adaptive management, alignment with Queensland Government approval requirements, and account for potential cumulative impacts as new scientific information becomes available over the life of the project.</p>	Not triggered	No request has been received to date.
Regional Groundwater Model			

Condition No.	Condition	Status	Compliance Statement
62	<p>To avoid or minimise direct or indirect adverse impacts on MNES, the proponent must:</p> <ul style="list-style-type: none"> a. develop a regional scale, multi-layer, transient groundwater flow model of the cumulative effects of multiple CSG developments; b. develop and implement an adaptive management framework, applicable at both the project scale and regional-scale, that includes monitoring and mitigation approaches to assess and manage the impacts of CSG developments, which takes into account the groundwater model of cumulative impacts required under (a); and c. contribute data as requested over the life of the Project to inform a Basin-scale multi-layer, transient groundwater flow model of the cumulative effects of multiple CSG developments in the Surat and Bowen Basins. <p>Note 1: In the absence of sufficient evidence to characterise and quantify potential impacts at the regional scale, this condition requires the model to be developed as an early warning system, informed by any other regional cumulative hydrological modelling, such that any hydrological changes can be identified at an early stage and appropriate, effective remedial actions implemented before irreversible environmental adverse impacts on MNES.</p>	Closed	As reported in the 2013-2014 AER, Australia Pacific LNG's contributions to the regional groundwater model (prepared by Queensland Water Commission (QWC), now Office of Groundwater Impact Assessment (OGIA), satisfied the requirements of this condition.
63 63 (continued)	<p>The model required under condition 62 (a) must:</p> <ul style="list-style-type: none"> a. use the best hydrostratigraphic and hydrogeological information available at the time, to identify the likely cumulative impacts of multiple CSG developments across the Surat and Bowen Basins; b. detail all data relating to the hydraulic connectivity between aquifers and aquitards used to substantiate the model parameterisation; c. be calibrated against measured piezometer responses in areas where CSG development has commenced; d. in relation to the reporting of model outputs - conform to the recommendations of the former Murray Darling Basin Commission Groundwater Modelling Guidelines; e. include: i. water balances for the 	Closed	Refer to condition 62, no updates since 2013-2014 AER.

Condition No.	Condition	Status	Compliance Statement
	<p>major aquifers affected by the CSG operations including the expected timeframe of any changes in water balance and pressure; ii. recharge versus extraction volumes for those aquifers; iii. details of justification for and assumptions regarding aquifer seal integrity (i.e. thickness and distribution of aquitards); iv. quantification of hydraulic connectivity between different units (aquifers and aquitards) through drill stem and pump testing, MDTs (modular dynamic formulation test), MFTs (compact formation pressure test), dedicated aquitard monitoring bores with periodic falling/rising head testing, aquitard coring and core permeability testing including centrifuge permeameter studies, hydrochemical and isotopic characterisation studies, monitoring of cross-aquitard effects of injection trials and gas production operations; and v. quantification of the impacts of reinjection and other groundwater repressurisation techniques on aquifer water balances. f. provide for adaptive monitoring, through six-monthly reporting of monitoring results and new data, and annual updates of numerical simulation models and re-interpretation of results to relevant Queensland Government and Commonwealth agencies.</p>		
<p>64</p> <p>64 (continued)</p>	<p>Subject to the approval of the Department, the requirement for a model under condition 62 (a) may be satisfied by the proponent’s contribution to a regional groundwater model developed by the Queensland Water Commission (or its successor agency).</p> <p>Note 1: Where the proponent is conditioned (here or elsewhere under the approval) to address a matter that may be most efficiently managed by another party, whether another CSG proponent or a Queensland Government agency, the proponent may discharge their responsibility under the condition by contributing financially and cooperating with other parties to meet the condition i.e. to develop a single representative regional model and/or to provide a single report from one or more proponents.</p> <p>Note 2: It is understood that the Queensland Water Commission (QWC) will manage delivery of a cumulative groundwater model for the Surat and</p>	<p>Closed</p>	<p>Refer to comment for condition 62, no updates since 2013-2014 AER.</p>

Condition No.	Condition	Status	Compliance Statement
	South Bowen Basins. It is anticipated that the requirements of condition 62 (a) may be satisfied by the development of a model by the QWC.		
65	If the requirements under condition 62 (a) are not met by the proponent's contribution to the QWC model, the Department may specify a timeframe for the obligations under 62 (a) to be satisfied by the proponent.	Not triggered	Refer to comment for condition 62, no updates since 2013-2014 AER.
Impact Assessment, Mitigation and Monitoring			
66	The proponent must provide to the Department a copy of the groundwater impacts assessment, mitigation and monitoring measures required under conditions 10, 11, 12 and 14, Part 2, Appendix 2 of conditions imposed by the Queensland Coordinator-General in his report dated November 2010.	Closed	As reported in the 2013-2014 AER, this information was provided. No further action is required.
67	In addition, as part of a staged process of adaptive management of CSG development, the proponent must also provide the following in relation to subsidence: <ul style="list-style-type: none"> a. baseline and ongoing geodetic monitoring programs to quantify deformation at the land surface within the proponent's tenures. This should link from the tenement scale to the wider region across which groundwater extraction activities are occurring and any relevant regional program of monitoring; b. modelling to estimate the potential hydrological implications of the predicted surface and subsurface deformation; and c. measures for linking surface and sub-surface deformation arising from CSG activities. 	Closed	Addressed in component 1 of Stage 2 CSG WMMP - Part 7 of 2013 Groundwater Assessment.

Condition No.	Condition	Status	Compliance Statement
68	When requested by the Department, the proponent must provide to the Department all geodetic monitoring data and related information from the program. This data must be provided within 30 days of request, or in a timeframe agreed to by the Department in writing.	Not triggered	No request has been received to date.
69	The mitigation and monitoring measures required under condition 66 must be submitted to the Minister for approval with a proposed implementation schedule. The approved measures must be implemented in a timeframe specified by the Minister.	Closed	Addressed through the approval of the Joint Industry Plan for an Early Warning System for the Monitoring and Protection of EPBC Springs, 30 September 2013 and Stage 2 CSG WMMP, approved on 27 March 2014. The plan has been implemented (no timeframe for implementation was specified by the Minister).
Springs Assessment, Mitigation and Monitoring			
70	As a precautionary approach, the proponent must within 12 months of approval, or such other timeframe specified in writing by the Minister, survey for, reconfirm, and notify the Minister of the presence or absence of any springs proximal to the project area and within 100 kilometres of modelled limits of aquifer draw-down or other such limits notified to the proponent by the Department. The survey: <ul style="list-style-type: none"> a. must include the spring complexes approximately 25km north and north-east of Roma (including Six mile and Spring Ridge), and 100km west of Roma; and the high value spring complexes east of the Taroom and Injune townships including Scott's Creek, Dawson River 8 and Cockatoo Creek springs; and b. may, with the written approval of the Minister comprise the proponent's contribution to a springs survey developed with input from the Department and undertaken by the Queensland Water Commission (or its successor agency). 	Closed	This information was provided to the Department in the 2013-2014 AER. No further action.

Condition No.	Condition	Status	Compliance Statement
70 (continued)	<p>Note 1: This survey may include use of remote sensing and may be aligned or combined with similar survey requirements that are to be undertaken by other proponents or the Queensland Water Commission. To avoid doubt, the survey must report on both discharge and recharge springs, as EPBC listed species may occur in association with either.</p> <p>Note 2: Surveys required under this condition may be undertaken by the proponent alone or in partnership with other CSG proponents.</p>		
71a	<p>If presence of the community of native species dependant on natural discharge of groundwater from the Great Artesian Basin, or listed threatened species that are reliant on springs, is confirmed by a survey under condition 70, then the proponent must (unless the proponent is not able to gain access to the spring, even with the assistance of relevant government agencies): a. for springs within the project area - within 1 month of survey completion protect the ecological community and/or listed threatened species from gas field development activities by establishing and maintaining a minimum 200 m employee/contractor exclusion zone from the relevant springs within the project area, unless such access is required in an emergency, for environmental management, or for monitoring purposes;</p> <p>Note: The Constraints Planning and Field Development Protocol will also apply.</p>	Compliant	A 200m exclusion zone has been implemented around Scott's Creek springs through the constraints mapping process.
71b	<p>Within 12 months of the survey completion provide to the Minister a management plan for all the relevant springs which includes: i. a specific monitoring and remediation program to protect the ecological community and/or listed threatened species and to monitor and address cumulative impacts within the project area and within modelled limits of aquifer draw-down that may arise from CSG water extraction, including identifying trigger levels and responses in the case of changes to groundwater flow or quality in each relevant spring; ii. a baseline analysis of four 3-monthly</p>	Closed	As reported in the 2013-2014 AER, the Springs Mitigation Strategy was submitted as Component 4 of Stage 2 CSG WMMP (Groundwater Mitigation Plan).

Condition No.	Condition	Status	Compliance Statement
71b (continued)	<p>samplings to determine the seasonal presence or absence of all relevant springs, and to establish: the existence, distribution and extent of listed threatened species; aquatic macro-invertebrates; aquatic plants; water quality characteristics; spring physical parameters including seasonal variation, depth, and flow rate; aquifer source including hydro chemical and isotopic analysis, and comparison of water levels with respect to source aquifer potentiometric surface;</p> <p>iii. ongoing monitoring on a 6 monthly basis (to cover high and low rainfall seasons) over the life of the project in the region relevant to each spring;</p> <p>iv. analysis and calibration of the monitoring results against the baseline data (collected under (ii) of this condition) as the CSG water and gas extraction occurs over the life of the project; v. threshold values (such as reporting or control line values for additional investigation, more intensive management actions, make good, and cease operations) at which management actions will be initiated to respond escalating levels of impact and designed to protect The community of native species dependent on the natural discharge of groundwater from the Great Artesian Basin and listed threatened species in the case of changes to groundwater pressure, flow, or water quality in GAB springs; vi. specific mechanisms to avoid, minimise, and manage risks, and response actions that can be taken by the proponent where: I. any threshold values for surface environmental values are exceeded; II. any threshold values for aquifer drawdown, water quality change, or aquifer contamination are exceeded; III. subsidence or surface deformation occurs, particularly if it impacts on surface or groundwater hydrology; and IV. any unforeseen emergency discharges occur; vii. established best practice standards, policies and guidelines; and viii. performance measures, reporting to the Department, and publication of reports on the internet.</p> <p>Note: Individual species and ecological community management plans are also required in accordance with condition 8. The management plans may be developed by the proponent alone or in partnership with other CSG proponents.</p>		

Condition No.	Condition	Status	Compliance Statement
72	<p>Any management plan required under condition 71(b) must be submitted to the Minister for consideration of approval including seeking expert advice from an expert panel. The approved plan must be implemented within the timeframe specified by the Minister.</p> <p>The approved plan must be published on the internet within 20 business days of being approved by the Minister.</p>	Not Triggered	No relevant plans required to be submitted and published during the reporting period.
73	The results of the baseline analysis under condition 71(b) must be made available to the Queensland Water Commission as part of the proponents' obligations in respect of the regional groundwater model under condition 62 (a) and provided on request to the Department.	Compliant	The studies undertaken by QWC/OGIA as part of the UWIR are being supplemented by studies undertaken by the joint proponents and communicated to the Department. A complete package of the results of the baseline analysis was provided to OGIA upon request in November 2014.
Notification of Threshold Breaches and Response Actions			
74	Within 10 business days of the proponent identifying monitoring outcomes that indicate a risk of reduction in groundwater pressure or water quality, the proponent must notify the Minister in writing of the trend and the proponent's response action.	Compliant	Monitoring outcome trends were analysed as part of Annual Groundwater Assessment 2019-2020. No increased potential risk to EPBC springs was identified as a result of CSG operations.
75	Within 10 days of identifying a surface or groundwater threshold value (for example, discharge water quality, environmental value, pressure, head, volume, or flow) being exceeded, the proponent must advise the Minister in writing of the circumstances, the threshold exceeded, the immediate action taken by the proponent, and proposed action to remedy the breach and avoid a subsequent breach.	Not Triggered	This condition was not triggered during the reporting period.

Condition No.	Condition	Status	Compliance Statement
76	Immediate action may include a range of measures including but not limited to further monitoring and investigation, the ceasing of water/gas extraction and/or water discharge or use in the area affected, or such other measures as are appropriate, until investigations can be completed to determine the cause and remedial action. The proponent's proposed response action must be notified to the Minister in writing.	Not triggered	This condition was not triggered during the reporting period.
77	The Minister may direct in writing that the proponent cease water/gas extraction and/or water discharge or use in the area affected, and if the Minister is not satisfied that the action proposed or taken by the proponent will remedy the situation. The Minister may direct the proponent to implement alternative action at the expense of the proponent. Note: The proponent will be provided with a reasonable opportunity to comment on any such direction before it is required to be implemented.	Not triggered	This condition was not triggered during the reporting period.
Notification and Requirements about Construction, Operation, Brine Management and Environmental Management Plans			
78	The proponent must notify the Department in writing when developing or revising construction, operational, groundwater, CSG water, brine management, salinity management, environmental management, or other plans where the scope of the plans relates to potential significant direct, indirect or cumulative adverse impacts on MNES, or involves management of MNES. The proponent must in the notification indicate the relevant components of such plans relating to MNES and their management, and the timeframe for development and approval of the plans under Queensland Government requirements.	Compliant	Condition observed when developing or revising construction, operational, groundwater, CSG water, brine management, salinity management, environmental management, or other plans where the scope of the plans relates to potential significant direct, indirect or cumulative adverse impacts on MNES, or involves management of MNES.

Condition No.	Condition	Status	Compliance Statement
79	<p>Where the scope of the plans relates to potential significant adverse impact on MNES or involves management of MNES the plans must be submitted to the Minister for approval of those components. Approved components of plans must be implemented.</p> <p>Note: Where efficiency will be enhanced the proponent may also prepare and align management plans required under these conditions with the requirements of the Queensland Government as long as the relevant matters under the conditions of this approval are clearly and adequately addressed.</p>	Compliant	<p>An overarching Management Plan and specific plans for listed species and ecological communities have been developed, approved and published on the Australia Pacific LNG website. Including:</p> <ul style="list-style-type: none"> - Threatened Ecological Community Management Plan Gas Fields - Threatened Fauna Management Plan Gas Fields - Threatened Flora Management Plan Gas Fields - https://www.aplng.com.au/about-us/compliance/management-plans.html
Cumulative Impacts			
80	<p>Any results from cumulative impact assessments relating to APLNG CSG activities undertaken by the proponent, the Queensland Water Commission (or its successor agency) or other third party; and any recommendations made by the CSG Industry Monitoring Group (CIMG) to meet Queensland Government approval requirements for APLNG must also be provided to the Minister within 1 week of being finalised and received by the proponent, or in such other timeframe specified by the Minister, provided the approval of the relevant Queensland Government agency is first obtained.</p>	Compliant	<p>A commitment was made to review the remaining Stage 2 CSG WMMP components on a three yearly cycle consistent with the Queensland Government's Underground Water Impact Report (UWIR) cycle to meet 'major stage' requirements. The Stage 2 CSG WMMP is currently being reviewed in response to the UWIR that came into effect on 19 September 2016 and will be submitted to the Department for approval as required. Discussions with the Department are ongoing.</p>
81	<p>In addition to provision of the cumulative impact assessment information required under condition 80, the proponent must also address the following, in relation to potential adverse impacts on MNES:</p> <p>a. cumulative impacts relating to all listed species and listed ecological communities within and outside project area, including The community of native species dependant on natural discharge of groundwater from the</p>	Compliant	<p>A commitment was made to review the remaining Stage 2 CSG WMMP components on a three yearly cycle consistent with the Queensland Government's Underground Water Impact Report (UWIR) cycle to meet 'major stage' requirements. The Stage 2 CSG WMMP is currently being reviewed in response to the</p>

Condition No.	Condition	Status	Compliance Statement
81 (continued)	Great Artesian Basin; b. any surface water and groundwater environmental values, including groundwater pressures and groundwater hydrochemistry which, if altered, may have an impact on listed species and ecological communities within and outside project area.		UWIR that came into effect on 19 September 2016 and will be submitted to the Department for approval as required. Discussions with the Department are ongoing.
82	<p>Within 3 years of the date that the cumulative impact assessment report is completed by the Queensland Water Commission (or its successor agency), or alternatively by the proponent, or such other timeframe specified in writing by the Minister, the proponent must review that cumulative assessment and the report in the light of the most up-to-date information and the regional transient groundwater model required under condition 62 (a). The proponent must provide a report on the review to the Minister and at the same time publish the report on its website.</p> <p>Note: The assessment scope of the cumulative impact report is not limited to groundwater or surface water impacts. These conditions provide that, 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. The Minister may make such a request in the light of the cumulative impacts assessment, or the review of the cumulative impacts assessment. Section 136(1)(b) of the EPBC Act additionally provides that the Minister may revoke, vary or add to a condition of this approval if the action has a significant impact that was not identified in assessing the action, and if the Minister relevantly believes it is necessary.</p>	Compliant	A commitment was made to review the remaining Stage 2 CSG WMMP components on a three yearly cycle consistent with the Queensland Government's Underground Water Impact Report (UWIR) cycle to meet 'major stage' requirements. The Stage 2 CSG WMMP is currently being reviewed in response to the UWIR that came into effect on 19 September 2016, and will be submitted to the Department for approval, as required. Discussions with the Department are ongoing.
Decommissioning Plan			
83	Within five years of the commencement of gas field development, the proponent must develop a Decommissioning Plan. The Plan must:	Compliant	Decommissioning Plan (CDN/ID 11867466) satisfies this condition.

Condition No.	Condition	Status	Compliance Statement
83 (continued)	a. require the progressive removal or reuse of infrastructure where gas field operations cease during the project life; b. establish management practices and safeguards to minimise environmental disturbance; c. ensure MNES are not impacted by progressive decommissioning, or final decommissioning of gas field infrastructure; d. define rehabilitation actions for the infrastructure sites following decommissioning including for: i. optimising habitat and habitat connectivity for MNES; ii. enhancing pre-construction environmental quality; and iii. ongoing management during rehabilitation.		
84	The Decommissioning Plan must be submitted for the approval of the Minister. The approved Plan must be implemented.	Compliant	Decommissioning Plan (CDN/ID 11867466) has been submitted to the Department for approval. Comments have been received from the Department and will be incorporated before re-submission.
Survey Data			
85	All survey data collected for the project must be collected and recorded so as to conform to data standards notified from time to time by the Department. When requested by the Department, the proponent must provide to the Department all species and ecological survey data and related survey information from ecological surveys undertaken for MNES. This survey data must be provided within 30 days of request, or in a timeframe agreed to by the Department in writing.	Not triggered	No request has been received to date. Data collection standard will be adopted as notified by the Department. All survey plans are available on the Australia Pacific LNG website (http://www.aplng.com.au/environmental/pre-clearance-surveys).
Publication of Protocol and Plans			

Condition No.	Condition	Status	Compliance Statement
86	The Protocol and 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	The Protocol and Plans are on the Australia Pacific LNG website.
87	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 request has been received to date.
Notification of Commencement			
88	Within 20 business days of the commencement of the action, the proponent must advise the Department in writing of the actual date of commencement.	Closed	Activities commenced and the Department was advised prior to the reporting period. No further action is required.
89	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.	Closed	Activities have commenced.
90	The proponent must notify the Department in writing of the proposed dates for each subsequent major stage of gas field development at least 40 business days before their commencement, and within 20 business days notify actual commencement dates, and within 20 business days of any major variations to gas field development notify the variations.	Compliant	No update since 2013-2014 AER. No further major stage commenced to date.
Request for Variation of Plans by Proponent			

Condition No.	Condition	Status	Compliance Statement
91	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.	Compliant	An overarching Management Plan and specific plans for listed species and ecological communities have been developed, approved and published on the Australia Pacific LNG website. Including: <ul style="list-style-type: none"> - Threatened Ecological Community Management Plan Gas Fields - Threatened Fauna Management Plan Gas Fields - Threatened Flora Management Plan Gas Fields - https://www.aplng.com.au/about-us/compliance/management-plans.html
92	If the Minister approves the revised plan, then that plan must be implemented instead of the plan originally approved.	Compliant	Australia Pacific LNG is working under the currently approved management plans.
93	Until the Minister has approved the revised plan, the proponent must continue to implement the original plan.	Compliant	Australia Pacific LNG is working under the currently approved management plans.
Revision of Plans by Minister			
94	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, specified revisions to a plan approved under these conditions. Without limiting this condition, the Minister may also make such a request following a study under s.255AA of the Water Act 2007.	Not triggered	No request has been made during the reporting period.

Condition No.	Condition	Status	Compliance Statement
95	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.	Not triggered	No request has been made during the reporting period.
96	The proponent must implement the revised plan on approval of the Minister.	Not triggered	No request has been made during the reporting period.
97	Until the Minister has approved the revised plan, the proponent must continue to implement the original plan.	Not triggered	No request has been made during the reporting period.
Minimum Timeframes for Consideration of Plans			
98	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			
99	The proponent must comply with all environmental authorisations issued by the State, including conditions of an environmental authority issued under the EP Act.	Compliant	Queensland Coordinator General and the conditions of Environmental Authorities issued by the Department of Environment and Heritage Protection. During the reporting period, Australia Pacific LNG has complied with the relevant environmental authorisations to the extent that they apply to MNES
Provision of State Plans			
100	If a condition of a State approval requires the proponent to provide a plan then the proponent must: a. provide the plan to the Department or Minister on request, within the period specified in the request; and b. prepare and combine plans that meet both Queensland Government	Not triggered	No requests were received during the reporting period.

Condition No.	Condition	Status	Compliance Statement
100 (continued)	requirements and the Commonwealth requirements under this approval where this is efficient. In doing so the proponent must clearly identify the respective responsibilities and how these are being addressed in relation to these conditions.		
Timeframes			
101	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	No requests were received during the reporting period.
Auditing			
102	On the request of and within a period specified by the Department, the proponent must ensure that: 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.	Compliant	No request for an independent audit has occurred during the period
103	Before the audit begins, the following must be approved by the Department: a. the independent auditor; and b. the audit criteria.	Compliant	No request for an independent audit has occurred during the period
104	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; 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	Compliant	No request for an independent audit has occurred during the period

Condition No.	Condition	Status	Compliance Statement
104 (continued)	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.		
105	The financial cost of the audit will be borne by the proponent.	Compliant	No request for an independent audit has occurred during the period.
106	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. Note: The Department will discuss findings of audit reports with the proponent to ensure compliance with conditions and before the issue of any directions.	Compliant	No request for an independent audit has occurred during the period.
107	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. Note: Independent third party auditing may include audit of the proponent's performance against the requirements of any plan required under these conditions.	Compliant	No request for an independent audit has occurred during the period.
Reporting Non-Compliance			

Condition No.	Condition	Status	Compliance Statement
108	<p>The proponent must, when first becoming aware of a non-compliance with these conditions (except condition 99 which relates to environmental authorisations issues by the state) or a plan required to be approved by the Minister under these conditions:</p> <p>a. report the non-compliance and remedial action to the Department within five business days;</p> <p>b. bring the matter into compliance within a reasonable time frame specified in writing by the Department.</p>	Compliant	Non-compliances identified during the reporting period have been reported to the Department in accordance with this condition.
Record-keeping			
109	<p>The proponent must:</p> <p>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</p> <p>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.</p> <p>Note: Audits or summaries of audits carried out under these conditions, or under section 458 of the EPBC Act, may be posted on the Department's website. The results of such audits may also be publicised through the general media.</p>	Compliant	<p>Records pertaining to all activities associated with or relevant to the conditions are maintained and kept up dated on a regular basis.</p> <p>All records are being kept within a central document control system / compliance database.</p>
Financial Assurance			
110	<p>The proponent must:</p> <p>a. 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 b. review and maintain the amount of financial assurance based on proponent reporting on compliance with these conditions, and any auditing of the activities.</p>	Not triggered	No financial assurance has been requested during the reporting period.
110 (continued)			

Condition No.	Condition	Status	Compliance Statement
111	The financial assurance is to remain in force until the Minister is satisfied that no claim is likely to be made on the assurance. Note: The financial assurance may be used for rehabilitation of habitat and other purposes not addressed adequately by the proponent during the life of the project.	Not triggered	No financial assurance has been requested during the reporting period.
Annual Environmental Return			
112	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-compliances with these conditions; and d. identifies any amendments needed to plans to achieve compliance with these conditions.	Compliant	This document satisfies this condition.
113	The proponent must publish the Annual Environmental Return on the Internet within 20 business days of each anniversary date of this approval. Note: In complying with this publication requirement, the proponent must ensure that it has considered relevant confidentiality and intellectual property rights of third parties.	Compliant	This AER will be published on the Project website http://www.aplng.com.au/environment/management-plans .

5. Document references

Documents referenced in this Environmental Annual Return are listed below.

Document Number	Title
Q-LNG01-15-MP-0109	The Constraints Planning and Field Development Protocol
Q-LNG01-15-MP-0107	Remediation, Rehabilitation, Recovery and Monitoring Plan
Q-LNG01-15-MP-0086	Environmental Offset Management Program (Offset Plan)
Q-LNG01-15-MP-8514	Dukes Plain Offset and Rehabilitation Area Management Plan
Q-LNG01-95-MP-0147	Stage 1 CSG Water Monitoring and Management Plan
Q-LNG01-95-MP-2105	Stage 2 CSG Water Monitoring and Management Plan
Q-LNG01-01-MP-0018	Subsidence, Aquitard Integrity and Aquifer Interconnectivity Project Plan
Q-LNG01-15-MP-0113	Threatened Fauna Management Plan
Q-LNG01-15-MP-0108	Threatened Flora Management Plan
CDN/ID 11867466	Decommissioning Plan (CDN/ID 11867466)
CDN/ID 12417892	Ecotoxicology Work Plan (CDN/ID 12417892)
CDN/ID 12085620	Fracture Stimulation Management Plan (CDN/ID 12085620)
QLD-1000-P01-PLN- CDN/ID 8395307	Surface Water Monitoring Plan (QLD-1000-P01-PLN-CDN/ID 8395307)
Q-1000-15-RP-072	Threatened Ecological Community Methodology (Q-1000-15-RP-072)
Q-LNG01-15-AG-0155	Threatened Fauna Habitat Modelling Methodology (Q-LNG01-15-AG-0155)