



Annual Return – EPBC 2008/4398 **Queensland Curtis LNG Gas Fields**

Rev 0

October 2013

QUEENSLAND CURTIS LNG

DOCUMENT INFORMATION SHEET

TITLE: Annual Return – EPBC 2008/4398 – Gas Fields

PURPOSE AND SCOPE:

The Minister for Sustainability, Environment, Water, Population and Communities approved action relating to the Queensland Curtis LNG Project on 22 October 2010. Under EPBC approval 2008/4398 (**the Approval**), QGC is required to submit an Annual Return addressing compliance with the conditions of the approval. The Annual Return must be published on the QGC website within 20 calendar days of the anniversary date of the approval.

This document is QGC's Annual return for referral approval, EPBC 2008/4398 – gas fields component for the period from 22 October 2012 to 21 October 2013 (**the Reporting Period**).

Condition 110 of the approval requires that the Annual Return:

- a. address compliance with the conditions;
- b. record 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. identify all non-compliances with these conditions; and
- d. identify any amendments needed to plans to achieve compliance with these conditions.

This report complies with these requirements.

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TABLE 1

1.0 BACKGROUND

1.1 The QCLNG Project

The Queensland Curtis Liquefied Natural Gas Project, commonly known as the QCLNG Project, is one of Australia's largest capital infrastructure projects, which will turn coal seam gas into liquefied natural gas (LNG) for export. This major, integrated project involves:

- Expanding QGC's existing coal seam gas production in the Surat Basin of southern Queensland;
- Building a 540km buried natural gas pipeline network linking the gas fields to Gladstone; and
- Constructing a natural gas liquefaction plant on Curtis Island, near Gladstone, where the gas will be converted to LNG for export.

1.2 Regulatory Environment

The QCLNG Project is regulated at both the state and federal government level, with Queensland's Coordinator General granting approval for the project on 26 June 2010 and the Commonwealth Minister for Sustainability, Environment, Water, Population and Communities granting approval for the project on 22 October 2010.

The Queensland Coordinator-General's Report on the environmental impact statement for the QCLNG Project was released pursuant to s.35 of the *State Development and Public Works Organisation Act 1971 (QLD)*. This report imposed conditions on the project that QGC is required to meet during both the construction and operational phases. The report contains over 1000 conditions governing the project relating to:

- The transport of plant, equipment, materials and people;
- Social impacts including affordable housing and job creation; and
- Gas field, pipeline and LNG construction and operation.

Following receipt of the Co-ordinator-General's decision, the Commonwealth Minister for Environment approved all five referrals made by QGC under the *Environmental Protection and Biodiversity Conservation Act 1999 (EPBC Act)*. The QCLNG project now operates under the following five approvals:

- Referral Approval, EPBC 2008/4398 – QCLNG Gas Field Component
- Referral Approval, EPBC 2008/4402 – LNG Plant and Onshore Activities Components
- Referral Approval, EPBC 2008/4399 – Pipeline Network Component
- Referral Approval, EPBC 2008/4405 – Shipping Activities
- Referral Approval, EPBC 2008/4401 – Marine Facilities Components

It is a requirement of each of these approvals, that QGC complete an Annual Return. The Annual Return must report on compliance with the conditions contained in each approval and must be published on the QGC website.

This document is QGC's Annual return for referral approval, EPBC 2008/4398 – gas fields for the period from 22 October 2011 to 22 October 2013 (**the Reporting Period**).

During the Reporting Period, variations to conditions of this approval were agreed. The variations were decided in accordance with the provisions of the *Environmental Protection and Biodiversity Conservation Act 1999 (EPBC Act)*.

The variation notification dated 23 October 2012 comprised the deletion of conditions 45, 49, 52, 54, 57, 58, 59, 60 and addition of conditions 53A, 53B and 53C.

In addition, on 22 November 2012, condition 60A was added to the approval.

1.3 Project Activities During the Reporting Period

The QCLNG gas field development commenced on 22 October 2011 and significant progress has been made since that time. Following is a brief summary of the activities during this Reporting Period:

- About 1,500 wells required for the first two trains to run at capacity have been drilled;
- The first major water treatment facility at Kenya field has been commissioned and first water was exported in July 2013;
- Activity is also well advanced at gas processing facilities, comprising a central processing plant and six associated field compression stations
- Expansion of camps and accommodations through the gas fields area. Currently, there are 16 work camps under operation, with a total capacity of 5,232 people. This is an addition to the numerous small mobile camps that provide accommodation for the crews servicing drilling rigs and seismic surveys in the Surat Basin.

2.0 CONCLUSION

In compiling this annual return, QGC has not identified any new instances of non-compliance with the conditions of EPBC approval 2008/4399. Appendix A to this report provides details of compliance with each of the approval conditions and, Table 1 provides details of the non-compliance with conditions of the Approval reported throughout the Reporting Period.

APPENDIX A – QCLNG GAS FIELDS – EPBC 2008/4398

Condition	Status	Statement of Compliance
Project Area		
1.	Activated	Compliant – the project area is confined to area identified at Figure 1.
<p>The project area is the area identified at Figure 1, with a maximum QCLNG Gas field development area of 26,760 ha, within the following petroleum tenures (as they are at the date of the decision to which these conditions are attached):</p> <ul style="list-style-type: none"> • ATPs 610,621,632 (portion of), 647, 648, 651, 676 and 768 (portion of); • PLs 179, 201. 228, 229,171,180,211,247; • PLAs 212, 257, 259, 261, 262, 263, 273, 274, 275, 276, 277, 278. 279. 		
Infrastructure limits		
2.	Activated	Compliant – During the reporting year, the impacts were limited to up to 1,500 wells located in the Surat Basin within the relevant petroleum tenures.
Constraints Planning and Field Development		
<i>Protocol for Constraints Planning and Field Development</i>		
3.	Activated	Compliant – QGC developed a Constraints Planning and Field Development Protocol (the Protocol) and submitted it to the Department, on 12 August 2011. Following receipt of comments from the Department, a revised version was submitted on 13 October 2011. The Protocol was approved by the Minister, on 21 October 2011.
4.	Activated	Compliant – the Protocol meets the requirements of this condition.
<p>The Protocol must apply for the life of the project and include the principles of:</p> <ul style="list-style-type: none"> a) Avoiding direct and indirect adverse impacts on MNES; b) Mitigating and managing direct and indirect Impacts to minimise cumulative adverse impacts on MNES; and c) Active site remediation and rehabilitation of impacted areas to 		

Condition		Status	Statement of Compliance
	promote and maintain long-term recovery of MNES.		
5.	<p>The Protocol must:</p> <p>a) classify the following as being within the proponent's highest environmental constraint class - Zone 4a (or should the proponent's classification be revised, an equivalent high environmental constraints class):</p> <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. <p><i>Note: The proponent's approach to environmental constraint class Zone 4a and related impact avoidance and mitigation is described in volume 3, chapter 7 (7.6.2.4) of the proponent's Environmental Impact Statement (dated July 2009). The protocol conditions do not apply to the other constraints that the proponent has included in environmental constraint class - Zone 4a unless these are relevant to MNES.</i></p> <p>b) take into account all current survey data and available information and maps of all MNES relevant to the project area as described within environmental constraint class Zone 4a;</p> <p>c) require the undertaking and documentation of planning and pre-clearance site assessments and field ecological surveys in proposed QCLNG Gas field development areas where constraint class Zone 4a is mapped, likely, or found. The pre-clearance site assessments and field ecological surveys must identify and assess options relating to potential QCLNG Gas field development impacts on MNES and provide recommendations to inform the proponent's decision to develop the project area;</p>	Activated	Compliant – the Protocol meets the requirements of this condition.

Condition		Status	Statement of Compliance
	<p>d) to avoid direct and indirect adverse impacts on MNES, including fragmentation and edge effects, require the proponent to determine the location of proposed infrastructure in accordance with the following:</p> <ul style="list-style-type: none"> i. preferentially avoid native vegetation that constitutes a listed ecological community and/or may provide habitat for listed species and utilise previously cleared or previously utilised areas; ii. exclude exploration and production wells from within areas identified as environmental constraint class Zone 4a unless their location within environmental constraint class Zone 4a is justified as an exception given other constraints and the impact on any MNES will be minimal, short term and recoverable; and iii. either: <ul style="list-style-type: none"> I. exclude other non linear infrastructure from the no impact zone; or II. where the location of other non linear infrastructure in the no impact zone is justified given other constraints and cannot be avoided, only authorise the siting of that infrastructure in that zone where field ecological surveys demonstrate that there will be minimal, short term and recoverable, or no adverse impact on any MNES, including habitat for any listed species; iv. either: <ul style="list-style-type: none"> I. exclude linear infrastructure from the impact risk zone; or II. where the location of linear infrastructure in the impact risk zone is justified given other constraints and cannot be avoided, only authorise the siting of that infrastructure in that zone where field ecological surveys demonstrate that there will be minimal adverse impact on any MNES, including habitat for any listed species. 		

Condition		Status	Statement of Compliance
	<p><i>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</i></p> <p>e) 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> <ul style="list-style-type: none"> i. all linear disturbance within environmental constraints class Zone 4a for MNES and the impact risk zone must be: <ul style="list-style-type: none"> I. limited to 6 metres in width for single lane track; II. limited to 15 metres if there are one or two parallel gas or water gathering lines; III. limited to 20 metres if there are three, four, or five parallel gas or water gathering lines; IV. limited to 25 metres if there are six, seven or eight parallel gas or water gathering lines; V. limited to .30 metres if there are greater than eight parallel gas or water gathering lines. ii. gas and water trunkline rights of way, water distribution pipeline rights of way, the Upstream Infrastructure Corridor (UIC), and other major linear infrastructure disturbance corridors within environmental constraints class Zone 4a and the impact risk zone must be: <ul style="list-style-type: none"> I. limited to 30 m in width where there are one or two gas and water trunklines, underground 33kV power lines and fibre optic cables in parallel; II. limited to 30 metres plus an additional 4 metres for every additional gas or water trunkline in parallel with the initial one or two gas or water trunklines, underground 33kV power lines and fibre optic cable; III. limited to disturbance in the corridor described for the UIC. 		

Condition		Status	Statement of Compliance
	<ul style="list-style-type: none"> iii. where feasible, gas trunklines, pipelines for associated water and other transmission lines must be co-located to reduce total disturbance on MNES. f) support bioregional corridors for listed threatened species and migratory species, and connectivity for listed threatened ecological communities; g) ensure site assessments and field ecological surveys: <ul style="list-style-type: none"> 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/guidelinespolicies.html#threatened; ii. take into account and reference previous ecological surveys undertaken in the area and relevant new information on likely presence or absence of MNES; iii. are undertaken by a suitably qualified ecologist approved by the Department; iv. document the survey methodology, results and significant findings in relation to MNES. v. apply best practice site assessment and ecological survey methods appropriate for each listed threatened species, migratory species, their habitat and listed ecological communities; vi. apply the mapping of environmental constraints class Zone 4a; the infrastructure location requirements; minimum no impact zones; impact risk zones; and the width requirements for linear infrastructure corridors described in e); vii. 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; h) require species and ecological community management plans 		

Condition		Status	Statement of Compliance
	which include: <ul style="list-style-type: none"> i. relevant avoidance and mitigation measures to be applied; 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 iii. include the development of a management plan consistent with iv. requirements under condition 8; and i) 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 QCLNG Gas field development within the project area.		
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.	Activated	Compliant – the Protocol meets the requirements of this condition.
<i>Management plans for listed species and ecological communities</i>			
7.	Before commencement of each major stage of QCLNG Gas field development the proponent must develop management plans for that area addressing each listed species and listed ecological community that, as indicated through assessment or more recent information, may be potentially impacted by QCLNG Gas field development within the project area (defined by condition 1), or external to the project area, as a result of QCLNG Gas field development. 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:	Activated	Compliant – The Gas Fields Significant Species Management Plan was submitted to the Department on 26 September 2011. Following further review, the plan was re-submitted on 18 October 2011 and was approved by the Minister on 20 October 2011.

Condition		Status	Statement of Compliance																					
	<p><i>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.</i></p> <p><i>Note 2: Major stages of development are to be notified under condition 88.</i></p> <table border="1" data-bbox="324 515 1144 1436"> <thead> <tr> <th colspan="3" data-bbox="324 515 1144 566">Table 1: Species potentially impacted by QCLNG Gas field development for which management plans are required</th> </tr> <tr> <th data-bbox="324 566 557 617">Species</th> <th data-bbox="557 566 786 617">EPBC status</th> <th data-bbox="786 566 1144 617">Indicative habitat</th> </tr> </thead> <tbody> <tr> <td data-bbox="324 617 557 815"><i>Dasyurus hallucatus</i> (Northern Quoll)</td> <td data-bbox="557 617 786 815">Endangered</td> <td data-bbox="786 617 1144 815">Habitat generally encompasses some form of rocky area for denning purposes with surrounding vegetated habitats used for foraging and dispersal. Preferred habitat of rocky hills and escarpments, open forest and open woodland</td> </tr> <tr> <td data-bbox="324 815 557 1062"><i>Chalinolobus dwyeri</i> (Large-eared Pied Bat, Large Pied Bat)</td> <td data-bbox="557 815 786 1062">Vulnerable</td> <td data-bbox="786 815 1144 1062">Usually found in proximity to cliff lines and escarpments and sandstone outcrops, where shallow caves appear to be used as roosts, although the species is also known to use tree hollows. Known to forage in adjoining woodlands including Brigalow ecological communities</td> </tr> <tr> <td data-bbox="324 1062 557 1214"><i>Tumix Melanogaster</i> (Black-breasted Button-quail)</td> <td data-bbox="557 1062 786 1214">Vulnerable</td> <td data-bbox="786 1062 1144 1214">Drier low closed forests, particularly semi evergreen vine thicket, low microphyll vine forest, araucarian microphyll vine forest and araucarian notophyll vine Forest</td> </tr> <tr> <td data-bbox="324 1214 557 1385"><i>Erythrotriorchis Radiatus</i> (Red Goshawk)</td> <td data-bbox="557 1214 786 1385">Vulnerable</td> <td data-bbox="786 1214 1144 1385">Eucalypt woodland, open forest, gallery rainforest, swamp sclerophyll forest and rainforest margins, usually in association with large tracts of forest. Prefers a mosaic of vegetation types and permanent water.</td> </tr> <tr> <td data-bbox="324 1385 557 1436"><i>Rostatual Australis</i></td> <td data-bbox="557 1385 786 1436">Vulnerable</td> <td data-bbox="786 1385 1144 1436">Potentially any wetland and farm dams with suitable vegetation</td> </tr> </tbody> </table>	Table 1: Species potentially impacted by QCLNG Gas field development for which management plans are required			Species	EPBC status	Indicative habitat	<i>Dasyurus hallucatus</i> (Northern Quoll)	Endangered	Habitat generally encompasses some form of rocky area for denning purposes with surrounding vegetated habitats used for foraging and dispersal. Preferred habitat of rocky hills and escarpments, open forest and open woodland	<i>Chalinolobus dwyeri</i> (Large-eared Pied Bat, Large Pied Bat)	Vulnerable	Usually found in proximity to cliff lines and escarpments and sandstone outcrops, where shallow caves appear to be used as roosts, although the species is also known to use tree hollows. Known to forage in adjoining woodlands including Brigalow ecological communities	<i>Tumix Melanogaster</i> (Black-breasted Button-quail)	Vulnerable	Drier low closed forests, particularly semi evergreen vine thicket, low microphyll vine forest, araucarian microphyll vine forest and araucarian notophyll vine Forest	<i>Erythrotriorchis Radiatus</i> (Red Goshawk)	Vulnerable	Eucalypt woodland, open forest, gallery rainforest, swamp sclerophyll forest and rainforest margins, usually in association with large tracts of forest. Prefers a mosaic of vegetation types and permanent water.	<i>Rostatual Australis</i>	Vulnerable	Potentially any wetland and farm dams with suitable vegetation		
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<i>Dasyurus hallucatus</i> (Northern Quoll)	Endangered	Habitat generally encompasses some form of rocky area for denning purposes with surrounding vegetated habitats used for foraging and dispersal. Preferred habitat of rocky hills and escarpments, open forest and open woodland																						
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<i>Tumix Melanogaster</i> (Black-breasted Button-quail)	Vulnerable	Drier low closed forests, particularly semi evergreen vine thicket, low microphyll vine forest, araucarian microphyll vine forest and araucarian notophyll vine Forest																						
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<i>Rostatual Australis</i>	Vulnerable	Potentially any wetland and farm dams with suitable vegetation																						

Condition				Status	Statement of Compliance
	(Australian Painted Snipe)		cover, temporary and permanent lakes, swamps and claypans. Favours freshwater swamps and samphire salt marshes		
	<i>Delma torquate</i> (Collared Delma)	Vulnerable	Eucalypt or acacia dominated woodland including Brigalow ecological communities and open forest where it is associated with suitable microhabitats (exposed rocky outcrops or a sparse understorey of tussock grass, shrubs or semi-evergreen vine thickets)		
	<i>Geophaps scripta scripta</i> (Squatter Pigeon (Southern))	Vulnerable	Grassy woodlands and open forest that are dominated by eucalypts, open grassy pastures in associate with cattle grazing and marshes, acacia growth and disturbed habitats (ie around stockyards, along roads and railways, and around settlements.)		
	<i>Denisonia maculate</i> (Ornamental Snake)	Vulnerable	Sandy soils, riverside woodland and open forest growing on natural levees and other riparian habitats. Shelters under fallen timber and in soil cracks. Known from cleared grazing and cropping lands where suitable soils exist		
	<i>Furina dunmali</i> Vulnerable (Dunmall's Snake)	Vulnerable	and clay loam soils (usually on heavy clay soils); Also known to occur in eucalypt and callitris woodland with fallen timber and ground litter		
	<i>Nyctophilus timoriensis</i> (Eastern Long-eared Bat)	Vulnerable	River red gum forest, semi-arid woodlands, savannahs and open woodlands, often in association with riverine environments in Brigalow Belt of inland Queensland.		

Condition		Status	Statement of Compliance
	<p><i>Note 1: Table 1 is derived from Table 2 EPBC Act Listed Ecological Community and Flora Species Impacts; Table. 3 MNES Fauna Species Requiring Offset Consideration; and Table 2 Determination of EPBC Act Listed Fauna Species Impacted of the Unidel QCLNG Project Revised Terrestrial Offsets and Implementation Report QGC020-ENV-RPT0002 24 June 2010 and from listed threatened species profiles available on the Department's website.</i></p> <p><i>Note 2: Habitat for species in Table 1 is to be fully described in the management plan for each species as required under condition 8. The habitat described in Table 1 is for general context and indicative only</i></p>		
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; 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 QCLNG Gas field development area; i) relevant management practices and methods to minimise impact 	Activated	<p>Compliant – the Gas Fields Significant Species Management Plan was developed by an ecologist approved in writing by the Minister</p> <p>The final version of the plan was submitted for approval on 18 October 2011 and was approved by the Minister on 20 October 2011.</p>

Condition		Status	Statement of Compliance
	and recover from impact that should include: <ol 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; viii. surface and ground water quality and quantity requirements, including relevant downstream environmental quality parameters; ix. 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. 		
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 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.	Activated	Compliant – the current Gas Fields Significant Species Management Plan was approved by the Minister on 20 October 2011 and is currently being implemented. Works in the relevant project area did not start before the plan was approved.
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	Activated	Compliant – the Gas Fields Significant Species Management Plan will be provided for formal review by a suitably qualified ecologist approved by the Minister every

Condition		Status	Statement of Compliance
	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.		five years from the date the plan is first approved.
11.	The Minister may require through a 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 activated	QGC is not aware of any request from the Minister.
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 activated	An independent review of the plan was not required during the Reporting Year.
<i>Record of impacts</i>			
13.	If an impact occurs (which may include a presumed impact where the species is presumed to be present) to a MNES during QCLNG Gas field development, operation, or decommissioning the proponent must: <ul style="list-style-type: none"> a) record the impact by reference to: <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 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 	Activated	Compliant – QGC records the information required by this condition and records are kept at QGC’s head office.

Condition		Status	Statement of Compliance
	b) record the information to a standard which can be independently audited.		
<i>Site remediation, rehabilitation and recovery plan</i>			
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.	Activated	Compliant – QGC has complied with the requirements of the Protocol and the associated Gas Fields Remediation, Rehabilitation, Recovery and Monitoring Plan. The final revision of this plan was submitted to the Department on 26 September 2011 and was approved by the Minister on 20 October 2011.
15	<p>Before commencement of gas field development the proponent must develop a Remediation, Rehabilitation, Recovery and Monitoring Plan. The Plan must:</p> <ul style="list-style-type: none"> 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 b) 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 protected MNES; e) include performance measures and related monitoring to assess site remediation, rehabilitation and recovery; 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; 	Activated	<p>Compliant – the Gas Fields Remediation, Rehabilitation, Recovery and Monitoring Plan (RRRMP) was first submitted to the Department, on 26 September 2011 before the commencement of gas field development.</p> <p>Following revisions to the plan incorporating comments from the Minister, the updated plan was submitted for approval on 18 October 2011. The RRRMP was approved by the Minister on 20 October 2011.</p> <p>The approved plan meets the requirements detailed in this condition.</p>

Condition		Status	Statement of Compliance
	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.		
16.	The Remediation, Rehabilitation, Recovery and Monitoring Plan must be submitted for the approval of the Minister. Commencement of QCLNG 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.	Activated	Compliant – the final revision of the RRRMP was submitted for approval on 18 October 2011. The RRRMP was approved by the Minister on 20 October 2011.
17.	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.	Activated	Compliant – the approved RRRMP will be provided for revision on the basis of monitoring results and monitoring of the rehabilitation process. At a minimum the RRRMP will be reviewed every 3 years from the date of the commencement. A review of the RRRMP was not conducted during the Reporting Period.
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 activated	QGC is not aware of any request from the Minister.
19.	Independent review of plans will bear 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 activated	No independent review of the plan was conducted during the reporting year.
<i>Approval and Review of Protocol</i>			

Condition		Status	Statement of Compliance
20.	The <i>Protocol</i> must be submitted for the approval of the Minister. Commencement of gas field development must not occur without written approval of the Protocol. 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 Protocol must be implemented.	Activated	Compliant - the final version of the Protocol was submitted for approval on 13 October 2011 and was approved by the Minister on 21 October 2011. No works with the potential to impact upon MNES started before the approval was received.
21.	The Protocol and related plans must be reviewed and updated by the proponent to take into account the findings of the <i>Cumulative Impact Assessment Report</i> 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.	Noted	The Cumulative Ecological Impact Assessment was submitted to the Queensland Coordinator General on 28 April 2011 and was considered in the preparation of the Protocol which was approved on 21 October 2011. No further review is required at this stage of the gas field development.
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.	Activated	Compliant – All relevant material was considered in the preparation of the current Protocol approved by the Minister on 21 October 2011.
23.	The Department may require through 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 activated	QGC is not aware of any request from the Minister during the Reporting Period.
24.	The approved Protocol must be incorporated into the proponent's management procedures, operational plans and other relevant documentation and kept current for the life of the project.	Activated	Compliant – the Protocol was approved on 21 October 2011 and was incorporated into management procedures, operational plans and other relevant documentation.
Disturbance Limits			
25.	The following maximum disturbance limits in Table 2 and Table 3 below apply to authorised unavoidable adverse impacts on MNES as a	Activated	Compliant – Disturbance carried out during the reporting period is in accordance with the limits listed in Table 2 and

Condition		Status	Statement of Compliance																														
	<p>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 for the life of the project.</p> <table border="1" data-bbox="322 512 1122 1114"> <thead> <tr> <th colspan="3">Table 2: Disturbance limits for listed threatened ecological Communities</th> </tr> <tr> <th>Ecological community</th> <th>EPBC Act status</th> <th>Disturbance limit (ha)</th> </tr> </thead> <tbody> <tr> <td>Brigalow (<i>Acacia harpophylla</i> dominant and co-dominant)</td> <td>Endangered</td> <td>73 ha</td> </tr> <tr> <td>The community of native species dependent on natural discharge of groundwater from the Great Artesian Basin</td> <td>Endangered</td> <td>o (No disturbance authorised)</td> </tr> <tr> <td>Semi-evergreen vine thickets of the Brigalow Belt (North and South) and Nandewar Bioregions</td> <td>Endangered</td> <td>o (No disturbance authorised)</td> </tr> <tr> <td>Natural Grasslands of the Queensland Central Highlands and the northern Fitzroy Basin</td> <td>Endangered</td> <td>o (No disturbance authorised)</td> </tr> </tbody> </table> <p><i>Note: Table 2 is derived from Table 2 EPBC Act Listed Ecological Community and Flora Species Impacts of the Unidel QCLNG Project Revised Terrestrial Offsets and Implementation Report QGC020-ENV-RPT0002 24 June 2010).</i></p> <table border="1" data-bbox="322 1219 1122 1415"> <thead> <tr> <th colspan="4">Table 3: Disturbance limits for listed species</th> </tr> <tr> <th>Species</th> <th>EPBC Status</th> <th>Disturbance limit (ha)</th> <th>Indicative habitat</th> </tr> </thead> <tbody> <tr> <td><i>Paradelma oreintalis</i> (Brigalow Scaly-foot)</td> <td>Vulnerable</td> <td>235* ha of potential habitat</td> <td>Occurs in a wide range of (dry) forest and woodland habitats, including Brigalow woodland, vine thicket regrowth and rocky habitats</td> </tr> </tbody> </table>	Table 2: Disturbance limits for listed threatened ecological Communities			Ecological community	EPBC Act status	Disturbance limit (ha)	Brigalow (<i>Acacia harpophylla</i> dominant and co-dominant)	Endangered	73 ha	The community of native species dependent on natural discharge of groundwater from the Great Artesian Basin	Endangered	o (No disturbance authorised)	Semi-evergreen vine thickets of the Brigalow Belt (North and South) and Nandewar Bioregions	Endangered	o (No disturbance authorised)	Natural Grasslands of the Queensland Central Highlands and the northern Fitzroy Basin	Endangered	o (No disturbance authorised)	Table 3: Disturbance limits for listed species				Species	EPBC Status	Disturbance limit (ha)	Indicative habitat	<i>Paradelma oreintalis</i> (Brigalow Scaly-foot)	Vulnerable	235* ha of potential habitat	Occurs in a wide range of (dry) forest and woodland habitats, including Brigalow woodland, vine thicket regrowth and rocky habitats		<p>Table 3. Records of disturbance are kept at QGC's head office.</p>
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Condition				Status	Statement of Compliance
			<p>on standstone ridges to flats and gently undulating plains with clay, loam or sand. Not tolerant of clearings.</p> <p>Specific habitat where species found includes remnant Brigalow woodland with sparse tussock grasses on grey cracking clay soils.</p>		
	<i>Egernia rugosa</i> (Yakka Skink)	Vulnerable	343* ha of potential habitat	<p>Open dry sclerophyll forest or woodland, Brigalow, shrublands, lancewood forests on sandy and open textured soils.</p> <p>Dense ground cover, cavities in soul-bound root systems of fallen trees and beneath rocks, hollow logs and animal burrows are considered to provide suitable microhabitat for this species.</p>	
	<i>Philotheca sporadica</i>	Vulnerable	10 ha	<p>Open to closed shrubland to closed woodland. Shallow sandy to clay loams or shallow texture contrast soils with loamy surfaces and medium clay subsoils. Ironstone gravel usually present within soil column. Some sites have duricrust surfaces.</p>	
<p>• Disturbance limits for Brigalow Scaly-loot and Yakka Skink potential habitat are as per the methodology applied in <i>Unidel OCLNG Project Revised Terrestrial Offsets and Implementation Report OGC020-ENV-RPT0002 24 June 2010</i>.</p> <p>Note: Table 3 is derived from: Table 2 <i>EPBC Act Listed Ecological Community and Flora Species Impacts</i>, Table 3 <i>MNES Fauna Species Requiring Offset Consideration</i>, and</p>					

Condition	Status	Statement of Compliance
<p>Table 2 Determination of EPBC Act Listed Fauna Species Impacted of the Unidel OCLNG Project Revised Terrestrial Offsets and Implementation Report OGC020-ENV-RPT0002 24 June 2010; and from the listed threatened species profiles available on the Department's website.</p> <p>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>		

Condition	Status	Statement of Compliance
Offsets		
Plan to secure offsets		
<p>26. Within 6 months of the commencement of the action 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) 80 ha of <i>Philothea sporadica</i> habitat; and b) 343 ha of potential <i>Egernia rugosa</i> (Yakka Skink) habitat which includes micro habitat required for the species; and c) 235 ha of potential <i>Paradelrna orientalis</i> (Brigalow Scaly-foot) habitat which includes micro habitat required for the species; and d) 730 ha of Brigalow with representation of the following; <ul style="list-style-type: none"> (i) 30% remnant Brigalow (<i>Acacia harpophylla</i> 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. 	Activated	<p>During the Reporting Period, QGC worked with the Department and other CSG proponents to finalise an LNG offset plan. This plan was approved by the Minister on 27 September 2013.</p> <p>QGC continues to work with the Department to finalise an offset plan for the upstream project area.</p>
<p>27. 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</p>	Activated	Refer to condition 26.

Condition		Status	Statement of Compliance
	mechanisms for long-term protection, conservation and management.		
28.	The Offset Plan must be submitted for the approval of the Minister within 6 months of the commencement of the action. The approved Offset Plan must be implemented.	Activated	Refer to condition 26.
29.	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 26(a) to (d). The approved alternative Offset Plan must be implemented.	Activated	Refer to condition 26.
30.	If the proponent proposes any action within a proposed offset area, other than actions related to managing that area as an offset property, approval must be obtained, in writing from the Department. In seeking Departmental approval the proponent must provide a detailed assessment of the proposed action including a map identifying where the action is proposed to take place and an assessment of all associated adverse impacts on MNES. If the Department agrees to the action within the proposed offset site, the area identified for the action must be excised from the proposed offset and alternative offsets secured of equal or greater environmental value in relation to the impacted MNES.	Activated	Refer to condition 26.
31.	The proponent must secure the offset within 2 years of commencement.	Activated	Refer to condition 26.
<i>Offset Area Management</i>			
32	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; <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 	Not activated	Refer to condition 26.

Condition		Status	Statement of Compliance
	<p>MNES;</p> <p>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;</p> <p>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;</p> <p>f) monitoring, including the undertaking of ecological surveys to assess the success of the management measures against identified milestones and objectives;</p> <p>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.</p>		
33.	<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>	Not activated	Refer to condition 26.
<i>Rehabilitation Area Offset</i>			
34.	<p>Within 2 years of the commencement of QCLNG gas field development the proponent must secure a Rehabilitation Area Offset of at least 700 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 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>	Activated	Refer to condition 26.
35.	<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</p>	Activated	Refer to condition 26.

Condition		Status	Statement of Compliance
	project area; b. include intact elements of remnant and/or high value regrowth of the Brigalow (<i>Acacia harpophylla</i> dominant and co-dominant) ecological community; and c. include or have potential for providing habitat and micro habitat requirements for listed migratory and threatened species (i.e. those in Table3 that relate to this ecological community).		
36.	If, within 2 years of the commencement of QCLNG 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 34 and 35 in a timeframe specified in writing by the Minister.	Not activated	Refer to condition 26.
<i>Rehabilitation Area Plan</i>			
37.	Within 2 years of the commencement of QCLNG Gas field development, the proponent must prepare a Rehabilitation Area Plan for the offset required. Under condition 34.	Not activated	Refer to condition 26. On-going discussions with the Department include the Rehabilitation Area Plan.
38.	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.	Not activated	Noted.
39.	The Rehabilitation Area Plan must include: a) details of the area to be rehabilitated including location and maps;	Not activated	Noted.

Condition		Status	Statement of Compliance
	<ul style="list-style-type: none"> 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 and the Brigalow (<i>Acacia harpophylla</i> dominant and co-dominant) 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. 		
40.	<p>Within 2 years of the commencement of QCLNG 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>	Not activated	Noted.
41.	<p>To ensure the long term protection of the Rehabilitation Area the proponent must:</p> <ul style="list-style-type: none"> a) manage the Rehabilitation Area to a stage where. it meets the criteria for 'remnant vegetation' for the Brigalow (<i>Acacia harpophylla</i> dominant and co-dominant) ecological community. 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 	Not activated	Noted.

Condition		Status	Statement of Compliance
	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.		
42.	If the proponent proposes any action within a proposed offset area, other than actions related to managing that area as an offset property, approval must be obtained, in writing from the Department. In seeking Departmental approval the proponent must provide a detailed assessment of the proposed action including a map identifying where the action is proposed to take place and an assessment of all associated adverse impacts on MNES. If the Department agrees to the action within the proposed offset site, the area identified for the action must be excised from the proposed offset and alternative offsets secured of equal or greater environmental value in relation to the impacted MNES.	Not activated	Refer to condition 26.
CSG Water Management			
43.	The proponent must: 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; and b. 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	Activated	Compliant – QGC is currently working in accordance with the relevant CSG Water Monitoring and Management Plans to ensure compliance with this condition. Modelling of QGC's gas field development shows no impact to MNES springs from current activities or from CSG water extraction activities throughout the life of the project.

Condition		Status	Statement of Compliance
<i>Hydraulic connection</i>			
44.	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.	Activated	Noted.
45.	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) and Stage 3 Coal Seam Gas Water Monitoring and Management Plan (Stage 3 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.	Activated	Noted.
46.	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 44 applies, the Minister may notify the proponent, in writing, that condition 44 does not apply to that aquifer.	Not activated	QGC is not aware of any notification from the Minister relating to this condition during the Reporting Period.
<i>Default drawdown</i>			
47.	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 targeted aquifer.	Activated	Compliant – Modelled groundwater drawdown contour data and contour plots for each targeted aquifer were provided to the Department in December 2010 and April 2011.
48.	The Minister, having regard to the minimum drawdown prediction from the proponent's Environmental Impact Statement and the information supplied under condition 47, 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.	Activated	Compliant – In response to the information submitted in compliance with condition 47, the Minister specified default drawdown limits for each aquifer in March 2011. These draw down limits have not been exceeded.
<i>Stage 1 CSG Water Monitoring and Management Plan</i>			
49.	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	Activated	Compliant – The Stage 1 CSG WMMP was submitted to the Department on 22 April 2011, within 6 months from the date

Condition		Status	Statement of Compliance
	Water Monitoring and Management Plan (Stage 1 CSG WMMP) which includes at least:		of project approval.
<i>Groundwater monitoring and management</i>			
	a) groundwater drawdown limits for each targeted aquifer; b) removed to Stage 3 WMMP; c) a program and schedule for field piloting of aquifer reinjection of treated CSG water and other groundwater re-pressurisation techniques; and d) early warning indicators where drawdown thresholds are being approached.		
<i>Hydraulic fracturing</i>			
	e) the estimated number and the spatial distribution of boreholes where hydraulic fracturing may be necessary, an annual review of the estimate, and recording of actual use; f) removed to Stage 3 WWMP		
<i>Surface water monitoring and management</i>			
	g) An ongoing water quality and quantity surface water monitoring plan that includes at least: <ul style="list-style-type: none"> (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 proposed impacts; (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 methods to determine trends to indicate potential impacts; (vi) threshold values that protect relevant MNES (such as reporting or control line values for additional investigation, 		

Condition		Status	Statement of Compliance
	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; (vii) water treatment and amendment methods and standards; (viii) water storage locations and volumes including any storage and volumes required to pilot or implement reinjection or other groundwater repressurisation techniques; (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; (x) brine storage locations and volumes, and brine crystal waste management; (xi) emergency water discharges, their volumes and quality; (xii) references to standards and relevant policies and guidelines;		
<i>Response actions</i>			
	(h) 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) removed to Stage 3 WMMP		
<i>Reporting</i>			
	(i) Performance measures, annual reporting to the Department, and publication of reports on the internet.		
50.	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.	Activated	Compliant – QGC is currently operating in accordance with the Stage 2 CSG WMMP.
<i>Stage 2 CSG Water Monitoring and Management Plan</i>			

Condition		Status	Statement of Compliance
51.	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.	Activated	Compliant – QGC prepared the Stage 2 CSG WMMP and submitted it for approval on 23 April 2012. A revised version incorporating feedback from the Minister was submitted for approval on 21 September 2012. The Minister approved the Stage 2 CSG WMMP on 21 December 2012.
52.	In addition to the matters in the Stage 1 CSG WMMP, the Stage 2 CSG WMMP must also include: <i>Groundwater monitoring and management</i> a) an ongoing CSG water treatment program to ensure that any water to be used for re-injection, or used for other groundwater repressurisation 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 hydrogeologically valid, best practice bore monitoring network across the project area, and at least; <ul style="list-style-type: none"> 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. removed to Stage 3 WMMP; v. removed to Stage 3 WMMP; 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, 	Activated	Compliant – The Minister approved the Stage 2 CSG WMMP on 21 December 2012. This condition is also addressed as part of the Stage 3 CSG WMMP which was submitted for approval on 22 July 2013 (refer to condition 53A). The investigations and related works are currently in progress.

Condition		Status	Statement of Compliance
	<p>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;</p> <ul style="list-style-type: none"> vii. references to standards and relevant policies and guidelines; viii. removed to Stage 3 WMMP; and ix. performance measures, annual reporting to the Department, and publication of reports on the internet; <p><i>Response actions</i></p> <ul style="list-style-type: none"> d) an exceedence response plan that includes: <ul style="list-style-type: none"> i. mechanisms to avoid, minimise and manage risk of adverse impacts and . response actions and timeframes that can be taken by the proponent if: <ul style="list-style-type: none"> 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. <p><i>Note: The design of these groundwater repressurisation activities must be informed by a regional-scale groundwater model and hydrochemical model approved by the Minister.</i></p>		
<i>Implementation of Stage 1 and Stage 2 CSG WMMP</i>			
53.	The proponent must implement the approved Stage 2 CSG WMMP, no	Activated	Compliant – the Stage 2 CSG WMMP was approved on 21

Condition		Status	Statement of Compliance
	later than 26 months from the date of the project approval.		December 2012. The plan is currently being implemented.
53 A.	Within 33 months from the date of the approval of the section of the action the proponent must submit for the approval of the Minister, a Stage 3 Coal Seam Gas Water Monitoring and Management Plan (Stage 3 CSG WMMP). The proponent must allow at least a further 3 months for the Minister’s consideration of the approval of the Stage 3 CSG WMMP including seeking advice from an expert panel.	Activated	Compliant – QGC submitted the Stage 3 CSG WMMP for approval on 22 July 2013.
53 B.	<p>In addition of the matters in the Stage 1 CSG WMMP and Stage 2 CSG WMMP, the Stage 3 CSG WMMP must also include:</p> <ul style="list-style-type: none"> a. program and schedule for aquifer connectivity studies and monitoring of relevant aquifers to determine hydraulic connectivity; b. details of constituent components of any hydraulic fracturing agents and any other reinjected fluid(s), and their toxicity as individual substances and as total effluent toxicity and ecotoxicity, based on methods outlined in the Normal Water Quality Management Strategy; c. mechanisms to avoid, minimise and manage risk of adverse impacts and response actions and timeframes that can be taken by the proponent if there are any foreseen emergency discharges; d. a groundwater quality and quantity monitoring plan to monitor the aquifers underlying the project area using a statistically and hydrogeologically valid, best practice bore monitoring network across the project area, and at least: <ul style="list-style-type: none"> i. baseline data for each monitoring site for comparison of monitoring results over the life of the project; ii. the approach to be taken to analyse the results including the methods to determine trends to indicate potential impacts; iii) mechanisms to monitor, avoid, minimise, manage, and response to risks. <p>Note 1: for clarity, the monitoring required under this condition may be undertaken jointly with others.</p> <p>e) an exceedance response plant that includes:</p>	Activated	Compliant – the Stage 3 CSG WMMP submitted for approval includes the information required by this condition.

Condition		Status	Statement of Compliance
	<p>i) mechanisms to avoid, minimise, and manage risks of adverse impacts and response actions and timeframes that can be taken by the proponent if:</p> <ul style="list-style-type: none"> I) threshold values specified in the CSG WWMMP for aquifer drawdown or groundwater contamination are exceeded; II) subsidence or surface deformation occurs which impacts on surface or groundwater hydrology; III) there are any unforeseen emergency discharges; and <p>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 of the advice of an expert panel, in conjunction with appropriate measures to forecast and proactively manage any short-terms impacts.</p> <p>Note: the design of these groundwater repressurisation activities must be informed by a regional-scale groundwater model and hydrochemical model approved by the Minister.</p>		
53 C.	The proponent must implement the approved Stage 3 CSG WWMMP, no later than 38 months from the date of the project approval.	Activated	<p>Compliant – QGC submitted the Stage 3 CSG WWMMP for approval on 22 July 2013.</p> <p>QGC will continue to implement the Stage 2 CSG WWMMP and Stage 3 CSG WWMMP work programs until such time as it receives approval of the Stage 3 Plan.</p>
54.	Three months before commencement of each subsequent major stage of the proponent's gas field development the proponent must submit a revised Stage 3 CSG WWMMP for tile consideration of approval of the Minister including seeking the advice of an expert panel.	Not Activated	
55.	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.	Activated	Compliant – the Stage 2 and Stage 3 CSG WWMMPs meet the requirements of this condition.

Condition		Status	Statement of Compliance
56.	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.	Activated	Compliant – QGC is currently implementing the Stage 2 CSG WMMP to ensure compliance with this condition.
57.	The Stage 1, Stage 2 and Stage 3 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.	Activated	The Stage 2 CSG WMMP was approved on 21 December 2012. The plan is currently being implemented. QGC submitted the Stage 3 CSG WMMP for approval on 22 July 2013.
<i>Revisions of Stage 1, Stage 2 and Stage 3 CSG WMMP</i>			
58.	Consistent with an adaptive management approach the Stage 3 CSG WMMP must be reviewed and updated for each new stage of QCLNG 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.	Not activated	Noted.
59.	A reviewed and updated Stage 3 CSG WMMP must be submitted to the Minister for written approval. Commencement of each new stage of QCLNG 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. The approved CSG WMMP must be implemented for the relevant gas field area.	Not activated	Noted.
60.	The Minister may, through a request in writing, require that the Stage 1, Stage 2 or Stage 3 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.	Not activated	Noted.
60 A.	The proponent must treat all coal seam gas water as required under this approval before the coal seam gas water associated with the approved action enters the following pipelines:	Activated	Compliant – the Kenya water treatment plant was commissioned in July to provide water to the Chinchilla pipeline.

Condition		Status	Statement of Compliance
	<ul style="list-style-type: none"> a. the Kenya to Chinchilla pipeline referred to the Department (EPC 2011/6000); b. the Woleebee Creek to Glebe Weir pipeline (EPBC 2011/6181) <p>Once the coal seam gas water has been treated as required under this approval and has entered the pipelines specified above, conditions 43-60 will no longer apply to that water.</p>		<p>Only water treated by this plant is able to enter the Chinchilla pipeline.</p>
Regional groundwater model			
61.	<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. 	Activated	<p>Compliant – the Minister approved the development of a regional model by the former Queensland Water Commission (now the Office of Groundwater Impact Assessment (OGIA)) subject to QGC providing necessary data.</p> <p>QGC made available the requested geological (static) and production (dynamic) subsurface data to OGIA.</p> <p>QGC submitted the OGIA model report to the Department on 6 May 2013.</p>
62.	<p>The model required under condition 61 (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 	Activated	Refer to condition 61

Condition		Status	Statement of Compliance
	<p>recommendations of the former Murray Darling Basin Commission Groundwater Modelling Guidelines;</p> <p>e) include:</p> <ul style="list-style-type: none"> i. water balances for the 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; and v. quantification of the impacts of reinjection and other groundwater re-pressurisation techniques on aquifer water balances. <p>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>		
63.	The model required under condition 61 (a) must be provided at the same time it is provided to fulfil requirements of the Queensland Government.	Activated	Compliant – the OGIA’s regional groundwater model was approved with conditions by the Queensland Department of Environment and Heritage and Protection (DEHP) on 12 October 2012.
64.	The proponent must seek approval of the Department if the requirement for a model under condition 61 (a) is to be satisfied by the proponent’s contribution to a regional groundwater model developed by the Queensland Water Commission (or its successor agency), as agreed between the proponent and the Commission.	Activated	Compliant – QGC sought approval from the Department to rely in part of its contribution to the regional groundwater model developed by the OGIA to satisfy the requirements of condition 61 (a).
Groundwater assessment, mitigation and monitoring			
65.	The proponent must provide to the Minister a copy of the groundwater assessment required under condition 9 (Groundwater assessment, mitigation and monitoring'), Part 2, Appendix 2 of conditions imposed by the Queensland Coordinator-General in his report dated 24 June	Activated	Compliant – the Minister has approved the development of a geodetic monitoring plan in cooperation with other industry participants using radar satellite imagery.

Condition		Status	Statement of Compliance
	2010. 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. 		The work programs to be implemented to address the remaining elements of this condition are included in the Stage 2 and Stage 3 CSG WMMPs.
66.	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.	Activated	Compliant – the Minister has approved the development of a geodetic model in cooperation with other industry participants using radar satellite imagery. Data is made available to the Department as required.
67.	Any program required under condition 65 must be submitted to the Minister for approval with a proposed implementation schedule. The approved program must be implemented in a timeframe specified by the Minister.	Activated	Compliant – on 10 August 2011, the Minister approved the development of a geodetic monitoring plan in cooperation with other industry participants using radar satellite imagery. Details of the work program are in the Stage 2 and Stage 3 CSG WMMPs.
Springs, Assessment, mitigation and monitoring			
68.	As a precautionary approach, the proponent must within 9 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. The survey: <ul style="list-style-type: none"> a) must include the Dawson River 8 springs north of Taroom; the Cockatoo Creek springs east of Taroom; and the Scott's Creek springs northeast of Roma; and b) may with the written approval of the Minister comprise the proponent's contribution to a springs survey developed with 	Activated	Compliant – approval for the survey to be managed by the OGIA, as part of an industry wide approach, was received on 15 July 2011. This approach will eliminate duplication, minimise the footprint of the works and ensure a uniformly high quality standard. As part of this work, OGIA prepared a Spring Impact Management Plan for MNES and water course springs.

Condition		Status	Statement of Compliance
	input from the Department and undertaken by the Queensland Water Commission (or its successor agency).		<p>Details of this plan and spring monitoring program are provided in Appendix H of the OGIA Underground Water Impact Report (UWIR).</p> <p>The OGIA Cumulative Impact Model also assessed the potential extent of source aquifer drawdown in the vicinity of MNES springs.</p>
69.	<p>If presence of <i>The community of native species dependant on natural discharge of groundwater from the Great Artesian Basin</i>, or listed threatened species that are reliant on springs, is confirmed by a survey under condition 68, then the proponent must (unless the proponent is not able to gain access to the spring, even with the assistance of relevant government agencies):</p> <ul style="list-style-type: none"> a) for springs within the project area - within 1 month of survey completion protect the ecological community and/or listed threatened species from QCLNG 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; b) within 12 months of the survey completion provide to the Minister a management plan for all the relevant springs which includes: <ul style="list-style-type: none"> 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 samplings to determine the seasonal presence or absence of all relevant springs, and to establish: the existence, 	Activated	<p>Compliant – refer to condition 68.</p> <p>No MNES springs have been identified within the project area. Therefore, condition 69 (a) is not applicable.</p> <p>The following actions are documented in the OGIA Underground Water impact Report:</p> <ol style="list-style-type: none"> 1. risk assessment of MNES springs that would be potentially impacted by CSG development and which lie outside the QCLNG Project Area; and97 2. development of a spring monitoring program; <p>QGC is responsible for monitoring the Dawson River 8 spring complex.</p> <p>Baseline surveys of relevant springs have commenced.</p>

Condition		Status	Statement of Compliance
	<p>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 hydrochemical 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;</p> <p>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 <i>The community of native species dependent on the natural discharge of groundwater from the Great Artesian Basin</i> and listed threatened species in the case of changes to groundwater pressure, flow, or water quality in GAB springs;</p> <p>vi. specific mechanisms to avoid, minimise, and manage risks, and response actions that can be taken by the proponent where:</p> <p>I. any threshold values for surface environmental values are exceeded;</p> <p>II. any threshold values for aquifer drawdown, water quality change, or aquifer contamination are exceeded;</p> <p>III. subsidence or surface deformation occurs, particularly if it impacts on surface or groundwater hydrology; and</p> <p>IV. any unforeseen emergency discharges occur;</p>		

Condition		Status	Statement of Compliance
	<ul style="list-style-type: none"> vii. established best practice standards, policies and guidelines; and viii. performance measures, reporting to the Department, and publication of reports on the internet. 		
70.	Any management plan required under condition 69(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. The approved plan must be published on the internet within 20 business days of being approved by the Minister.	Activated	Compliant – refer to condition 68 and 69 (OGIA Springs Monitoring Program).
71.	The results of the baseline analysis under condition 69(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 61(a) and provided on request to the Department.	Activated	Compliant – Baseline surveys are currently in progress.
Notifications of threshold breaches and response actions			
72.	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.	Not activated	No risk of reduction in groundwater pressure or water quality was identified during the Reporting Period.
73.	Within 10 days of a surface or groundwater threshold value (for example, 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 activated	No surface or groundwater threshold value was exceeded during the Reporting Period.
74.	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 activated	Noted.
75.	The Minister may direct in writing that the proponent cease water / gas	Not activated	Compliant – No direction has been received from the

Condition	Status	Statement of Compliance
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, or make good any environmental loss, the Minister may direct the proponent to implement alternative action at the expense of the proponent.		Minister during the Reporting Period.
Notifications and requirements about construction, operating, brine management and environmental management plans		
76. The proponent must notify the Department in writing when developing or reviewing construction, operational, groundwater, CSG water, brine management, salinity management, environmental management, or other plans where the scope of the plans relates to potential 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.	Not activated	Compliant – No amendments to plans envisaged by this condition have been made during the Reporting Period.
77. Where the scope of the plans relates to potential 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.	Not activated	Compliant – No relevant amendments to plans have been made during the Reporting Period.
Cumulative Impact Report		
78. On the same date that an assessment of cumulative impacts is provided in accordance with requirements imposed by the Queensland Government, or such other timeframe specified in writing by the Minister, the proponent must provide a copy of that report to the Minister.	Activated	Compliant – QGC submitted the following plans to the Minister and the former Queensland Department of Employment, Economic Development and Innovation (DEEDI) on 28 April 2011. <ul style="list-style-type: none"> • the Cumulative Ecological Impact Assessment; and • the Cumulative Soils and Land Use Impact Assessment.
79. In addition to meeting any requirements imposed by the Queensland Government, the report on cumulative impacts provided to the Minister must also address the following, in relation to potential adverse impacts on MNES: <ol style="list-style-type: none"> a) cumulative impacts relating to all listed species and listed ecological communities within and outside project area, 	Activated	Compliant – QGC is addressing this requirement through a process being led by the Office of Groundwater Impact Assessment (OGIA), formerly the Queensland Water Commission (QWC). CSG proponents in Queensland, including QGC, have

Condition		Status	Statement of Compliance
	including <i>The community of native species dependant on natural discharge of groundwater from the Great Artesian Basin</i> ; 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;		adopted an industry wide approach to monitor springs and to install an early warning monitoring bore network. This approach will eliminate duplication, minimise the impact on landholders and ensure uniform, high quality monitoring systems. OGIA, as part of the development of an Underground Water Impact Report (UWIR), has prepared a Spring Impact Management Plan for MNES and water course springs. Details of the Spring Impact Management Strategy are outlined in Appendix H of the UWIR. The OGIA's Cumulative Impact Model also assessed the potential extent of source aquifer drawdown in the vicinity of MNES springs.
80.	Within 3 years of the date that the cumulative impact report is provided to the Minister, 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 61 (a). The proponent must provide a report on the review to the Minister and at the same time publish the report on its website.	Activated	Compliant – the OGIA Underground Water Impact Report (UWIR) for the Surat Cumulative Management Area dated 18 July 2012 is the initial cumulative impact report. QGC submitted the report to the Department on 06 May 2013. The report is published on the OGIA website at http://www.dnrm.qld.gov.au/_data/assets/pdf_file/0016/31327/underground-water-impact-report.pdf
Decommissioning Plan			
81.	Within five years of the commencement of QCLNG Gas field development, the proponent must develop a Decommissioning Plan. The Plan must: <ol style="list-style-type: none"> require the progressive removal or reuse of infrastructure where gas field operations cease during the project life; establish management practices and safeguards to minimise environmental disturbance; ensure MNES are not impacted by progressive decommissioning, or final decommissioning of gas field infrastructure; define rehabilitation actions for the infrastructure sites following decommissioning including for: 	Not activated	Compliant – This condition has not yet been activated

Condition		Status	Statement of Compliance
	<ul style="list-style-type: none"> i. optimising habitat and habitat connectivity for MNES; ii. enhancing pre-construction environmental quality; and iii. ongoing management during rehabilitation. 		
82.	The Decommissioning Plan must be submitted for the approval of the Minister. The approved Plan must be implemented.	Not activated	Compliant – This condition has not yet been activated
Survey data			
83.	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 activated	Compliant – QGC is not aware of any request from the Minister to provide the survey data specified in this condition.
Publication of Protocol and Plans			
84.	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.	Activated	Compliant – the Protocol and all plans approved by the Minister are published on QGC's website at: http://www.qgc.com.au/environment/environment-management/management-plans/gasfields.aspx
85.	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 activated	Compliant – No request has been received from the Minister.
Notification of commencement			
86.	Within 20 business days of the commencement of the action, the proponent must advise the Department in writing of the actual date of commencement.	Activated	Compliant – activities in the gas fields commenced on 22 October 2011. The Department was notified in writing of this date on 9 November 2011. 22 October 2011 is also the date of commencement of the first major stage of gas field development.
87.	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.	Completed	Compliant – the action commenced within 5 years of the approved date.

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88.	The proponent must notify the Department in writing of the proposed dates for each subsequent major stage of QCLNG 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 QCLNG Gas field development notify the variations.	Not activated	Compliant - the first major stage of gas field development includes all gas field development activities necessary to supply gas for commissioning the LNG plant.
Request for variation of plans by proponent			
89.	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.	Activated	Compliant – works during reporting period were conducted in accordance with currently approved plans.
90.	If the Minister approves the revised plan, then that plan must be implemented instead of the plan originally approved.	Activated	Compliant – revised plans are implemented upon approval.
91.	Until the Minister has approved the revised plan, the proponent must continue to implement the original plan.	Activated	Compliant – only approved plans are implemented on site.
Revisions to plans by the Minister			
92.	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 <i>Water Act 2007</i> .	Not Activated	Compliant – QGC is not aware of a request from the Minister to revise approved plans during the reporting period.
93.	If the Minister makes a request for revision to a plan, the proponent must: <ul style="list-style-type: none"> a) comply with that request; and b) submit the revised plan to the Minister for approval within the period specified in the request. 	Not Activated	Noted.
94.	The proponent must implement the revised plan on approval of the Minister.	Not Activated	Noted.
95.	Until the Minister has approved the revised plan, the proponent must continue to implement the original plan.	Not Activated	Noted.
Minimum timeframes for consideration of plans			
96.	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	Activated	Noted.

Condition		Status	Statement of Compliance
	otherwise agreed in writing between the proponent and the Minister.		
Compliance with State environmental and other authorities			
97.	The proponent must comply with all environmental authorisations issued by the State, including conditions of an environmental authority issued under the EP Act.	Activated	<p>Compliant – at the state level, QGC is required to comply with conditions imposed by the Queensland Coordinator General and the conditions of a number of Environmental Authorities.</p> <p>The 2012 audit of the Coordinator General’s conditions found one instance of non-compliance with conditions relevant to the QCLNG gas fields. Appendix 2, part 2, Condition 7 requires that where there is a requisite for clearing of plants protected under the Nature Conservation Act 1992 (NC Act), clearing of plants must only occur in accordance with a clearing permit issued under the NC Act. On 19 September 2012, QGC became aware that approximately 15 to 20 plants, known as <i>Philotheca sporadica</i> had been cleared without an appropriate clearing permit in the gas field component of the QCLNG Project. The incident was reported to the Office of the Coordinator-General on the adequate timeframe and remedial actions were taken.</p> <p>In addition, QGC did not comply with the Appendix 1, part 1, Condition 9 (2) at particular points in time during the period covered by the Statement. This condition requires a permit holder to ensure that protected animals injured or deceased as result of clearing activities be notified to DEHP within 24 hours. QGC identified instances in which the notification was made outside the prescribed 24 hour period. Notification was provided to the Office of the Coordinator- General and remedial action undertaken.</p> <p>All instances of potential non-compliance with conditions of the EA were reported to the Queensland Department of Environment and Heritage Protection (DEHP) and the</p>

Condition		Status	Statement of Compliance
			Department during the Reporting Period.
Provision of State plans			
98.	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 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.	Not activated	Compliant – QGC is not aware of any request from the Minister to provide the plans.
Timeframes			
99.	If these conditions require the proponent to provide something by a specified time, a longer period may be specified in writing by the Minister.	Activated	Noted.
Auditing			
100.	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.	Not activated	Compliant – QGC has not received any request for an independent audit of compliance with the approval conditions.
101.	Before the audit begins, the following must be approved by the Department: a) the independent auditor; and b) the audit criteria.	Not activated	Noted.
102.	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	Not activated	Noted.

Condition		Status	Statement of Compliance
	compliance or non-compliance; e) recommendations on any non-compliance or other matter to improve compliance; f) a response by the proponent to the recommendations in the report (or, if the proponent does not respond within 20 business days of a request to do so by the auditor, a statement by the auditor to that effect); g) certification by the independent auditor of the findings of the audit report.		
103.	The financial cost of the audit will be borne by the proponent.	Not activated	Noted.
104.	The proponent must: a) implement any recommendations in the audit report, as directed in writing by the Department after consultation with the proponent; investigate any non-compliance identified in the audit report; and if non-compliance is identified in the audit report take action as soon as practicable to ensure compliance with these conditions,	Not activated	Noted.
105.	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,	Not activated	Noted.
Reporting non-compliance			
106.	The proponent must, when first becoming aware of a non-compliance with these conditions, or a plan required to be approved by the Minister under these conditions: a) report the non "compliance and remedial action to the Department within five business days; b) bring the matter into compliance within a reasonable time	Activated	Compliant – QGC notified all instances of potential non-compliance with conditions of the Approval to DoE during the Reporting Period. A complete list of potential non-compliances is provided in Table 1 at the end of this annual return. The actions taken

Condition	Status	Statement of Compliance
frame specified in writing by the Department		to bring these matters into compliance are also provided in Table 1.
Record-keeping		
107. The proponent must: <ul style="list-style-type: none"> a) maintain accurate records substantiating all activities associated with or relevant to these conditions of approval, including measures taken to implement a plan approved under these conditions; and b) make those records available 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. 	Activated	Compliant – accurate records, including measures taken to implement approved plans under the conditions are kept on QGC head office. No request has been received by QGC during the reporting period.
Financial assurance		
108. The proponent must: <ul style="list-style-type: none"> 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. 	Not activated	Compliant – QGC has not received a request from the Minister to provide financial assurance during the reporting year.
109. The financial assurance is to remain in force until the Minister is satisfied that no claim is likely to be made on the assurance.	Not activated	Noted.
Annual Environmental Return		
110. The proponent must produce an Annual Environmental Return which: <ul style="list-style-type: none"> 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. 	Activated	Compliant – this Annual Environmental Return demonstrates compliance with this condition. The disturbance related to unavoidable adverse impacts on MNES was carried out in accordance with the limits set up in table 1 and table 2 of condition 25. Mitigation measures applied to avoid adverse impacts on MNES are detailed on the Protocol for Constraints

Condition		Status	Statement of Compliance
			Planning and Field Development. The protocol has been implemented.
111.	The proponent must publish the Annual Environmental Return on the Internet within 20 business days of each anniversary date of this approval.	Activated	Compliant – the Annual Environmental Return will be published on QGC’s website within 20 calendar days of the anniversary date of the EPBC Approval.
Dictionary			
112	<p>In these conditions, unless otherwise indicated:</p> <p>Brigalow means for the purposes of the application of. the Constraints Planning and Field Development Protocol the presence of the Brigalow (<i>Acacia harpophy/Ja</i> dominant and cO-dominant) ecological community includes Brigalow regrowth that retains the species composition and structural elements typical of that found in the undisturbed listed regional ecosystems but does not include: a. vegetation that has been comprehensively cleared (not just thinned) within the last 15 years; b. vegetation in which exotic perennial plants have more than 50% cover, assessed in a minimum area of 0.5 ha (100 m by 50m); and 33 c. individual patches of Brigalow that are smaller than 0.5 ha;</p> <p>Clearance of native vegetation means the cutting down, felling, thinning, logging, removing, killing, destroying, poisoning, ring barking, uprooting or burning. of native vegetation; .</p> <p>Commencement means any physical disturbance including clearance of . native vegetation, new road work, and the establishment of well sites to develop the gas field project area (the project area is specified in condition 1). Commencement does not include minor physical disturbance necessary to undertake preclearance surveys to establish monitoring programs; or associated with the mobilisation of the plant, equipment, materials, machinery and personnel prior to the start of QCLNG Gas field development.</p>	Noted	

Condition		Status	Statement of Compliance
	<p>Conditions means these conditions attached to the approval of the action;</p> <p>CSG means coal seam gas;</p> <p>Department means the Australian Government department responsible for administering Part 4 of the EPBC Act;</p> <p>Environmental constraints class Zone 4a means habitat for listed threatened species and migratory species and listed ecological communities as described in management plans "for these matters" and as identified through ecological field surveys. It includes matters for which there is a disturbance limit specified in Tables 2 and 3 under condition 25. For the purposes of these conditions, environmental constraints class Zone 4a it does not include other constraints identified by the proponent unless these relate to MNES;</p> <p>Expert panel means an expert panel appointed by the Minister;</p> <p>EP Act means <i>Environmental Protection Act 1994 (Qld)</i>;</p> <p>EPBC Act means the Commonwealth <i>Environment Protection and Biodiversity Conservation Act 1999</i>;</p> <p>QCLNG Gas field development means all activities associated with the development of the gas fields including (but not limited to) site clearance and site preparation; development of exploration and production wells; development of water and gas transmission pipelines; infrastructure access road construction; construction of workers accommodation and office facilities; construction of gas compression stations; construction of pumping stations; construction of water treatment facilities; and construction of water storage dams;</p> <p>High value regrowth for the purposes of these conditions means mature native vegetation that hasn't been cleared since 31 December</p>		

Condition		Status	Statement of Compliance
	<p>1989.</p> <p>Impact risk zone means the area within 200 metres from the perimeter of class Zone 4A;</p> <p>Linear infrastructure means linear infrastructure including (but not limited to) gas and water gathering lines, low and high pressure gas and water pipelines, roads and tracks, power lines and other service lines;</p> <p>Listed means those species, ecological communities or other identified matters of environmental significance listed for protection under Part 3 of the EPBC Act;</p> <p>Minister means the Minister responsible for Chapter 4 of the EPBC Act, and may include a delegate of the Minister under s.133 of the EPBC Act;</p> <p>MNES means matters of national environmental significance, being the relevant matters protected under Part 3 of the EPBC Act;</p> <p>No impact zone means the area within 300 metres from the perimeter of class Zone4A;</p> <p>Non-linear infrastructure means infrastructure including (but not limited to) exploration and production wells, compressor stations, regulated dams, reverse osmosis plants, brine encapsulation facilities, workers camps, and maintenance facilities;</p> <p>Plan includes a report, study, protocol, program, or strategy (however described);</p> <p>Production means extraction of coal seam gas or associated water other than for exploration purposes;</p>		

Condition		Status	Statement of Compliance
	<p>Proponent means the holder of the approval to which these conditions relate, and includes any person acting on behalf of the proponent;</p> <p>Referral means a referral under the EPBC Act including any amendment of the referral.</p> <p>Regulatory agency means agencies administering the EPBC Act and the EP Act (Old);</p> <p>Remnant vegetation for the purposes of these conditions means vegetation that can meet the following:</p> <ul style="list-style-type: none"> (a) 50% of the predominant canopy cover that would exist if the vegetation community were undisturbed; and (b) 70% of the height of the predominant canopy that would exist if the vegetation community were undisturbed; and (c) Composed of the same floristic species that would exist if the vegetation community were undisturbed. <p>Trunkline rights of way means the linear construction footprint required to install gas and water trunklines, underground 33 kV power lines, above ground 33 kV power lines, fibre optic cable and gas and water gathering lines. Trunkline rights of way may contain between one and ten gas and water trunklines, between one and ten power lines, between one and ten fibre optic cables and between one and up to twelve gathering lines running in parallel;</p> <p>Upstream Infrastructure Corridor (UIC) is a linear corridor linking the Ruby CPP, Jordan CPP, Kenya WTP, Bellevue CPP and the Condamine Power Station. The UIC will contain multiple linear infrastructure items running in parallel, including gas trunklines, water trunklines, gas gathering lines, water gathering line, water distribution pipelines, above ground 132 kV power lines, above ground 33 kV power lines, below ground 33 kV power lines and fibre optic cable. The UIC and the infrastructure to be contained within the UIC along various sections of the UIC are shown in Figure 2 to these</p>		

Condition		Status	Statement of Compliance
	<p>conditions;</p> <p>Water distribution pipelines means pipeline used to transfer raw or treated water to a user of that water or to transfer brine between facilities that manage brine;</p> <p>Water gathering lines means pipelines used to transfer water between wells and regional storage ponds (RSPs);</p> <p>Water trunklines means pipelines used to transfer water between regional storage ponds and water treatment plants.</p>		
113	<p>Unless otherwise indicated, words in these conditions have the same meaning as in (in the following order of priority):</p> <p>(a) the EPBC Act; and</p> <p>(b) the EP Act</p>		
114	<p>Unless the contrary is indicated, in these conditions:</p> <p>(a) words in the singular number include the plural and words in the plural number include the singular; and</p> <p>(b) condition headings are inserted for convenient reference only and have no effect in limiting or extending the language of the condition to which they refer.</p>		

TABLE 1

Condition 106 reporting non-compliance – the following instances of potential non-compliances were reported to the Department, during the Reporting Period. Each of the non-compliances relate to condition 97 which requires that “the proponent must comply with all environmental authorisations issued by the State, including conditions of an environmental authority issued under the EP Act”.

NOTIFICATION	DATE	Identified Remedial Actions
Ruby Project Area		
In Isabella block, a 20m right of way (RoW) was cleared along a 200m section of gathering line within an area where only a 15m width RoW is permitted. The clearing occurred between 9 September 2012 and 10 September 2012. QGC became aware of the incident on 28 May 2013.	09/09/2012	The over-cleared area is being rehabilitated in accordance with relevant rehabilitation plans.
QGC failed to notify DEHP that culvert works associated with the water crossing of Moramby Creek in Isabella block extended beyond 10 days as required by conditions of the Environmental Authority. QGC became aware of the non-compliance on 10 May 2013.	20/12/2012	QGC notified DEHP of the culvert works as soon as it became aware of the non-compliance. Following the incident QGC reviewed its internal processes and communications with its principal contractor to minimise the risk of recurrence.
Following severe rainfall approximately 27m ³ of sediment scoured out from a construction site for an access road. This resulted in the uncontrolled release of sediment into Broadwater Gully.	01 and 02 March 2013	Remedial works to repair the drainage were undertaken including re-profiling and lining the drain with geo-fabric and rocks to reduce water velocities.
Approximately 1,500m ³ of sediment was scoured out from the gathering RoW in the David and Ruby-Jo Blocks. The incident occurred following significant rain fall events and resulted in the release of sediment from three separate locations.	05 March 2013	Remedial works to the damaged erosion and sediment control infrastructure were completed and additional drainage controls implemented.
A substance, later to be confirmed as sewage, was released along two separate 500m stretches of road leading to the Wild Desert Temporary Camp.	24 April 2013	Due to the delayed identification of the incident and the fact that the substance had already seeped into the road surface no immediate actions could be taken. The access track and road was inspected for evidence of environmental harm, none was found. To minimise the risk of recurrence, QGC reiterated the importance of preventative maintenance and compliance with EA conditions with

NOTIFICATION	DATE	Identified Remedial Actions
<p>During an internal compliance review potential non-compliances with the regulated dam water quality monitoring program required by the Ruby Jo EA were identified. QGC failed to monitor for all the parameters required and failed to monitor at the frequency required.</p>	<p>October 2012 to May 2013</p>	<p>relevant personnel.</p> <p>Janda Pond groundwater bore was sampled immediately after the potential non-compliance was identified.</p> <p>To a prevent a reoccurrence QGC has since included these parameters in the testing suite and the groundwater monitoring program has been reviewed to ensure appropriate scheduling in the Ruby EA area and compliance with the EA.</p>
<p>During an inspection at Clunie 8 well a leak was detected between a hydrochloric acid tank (containing 15% dilution) and the valve. The leak was unable to be isolated due to a break in the fittings and approximately 1,500L of dilute hydrochloric acid was released to the well pad.</p>	<p>09/06/2013</p>	<p>Work on the well pad ceased immediately and a berm was placed to contain the spill. The volume of the spill was minimised by transferring remaining the acid into available empty tanks. The spilt material was neutralised with sodium bicarbonate and a vacuum truck was used to capture the neutralised fluid which was then removed by a licenced waste contractor.</p>
<p>During the transfer of production water from Clunie well 7 to a neighbouring well pad, a pump outlet split and production water was released to the handstand area. Approximately 6400L of production water was released.</p>	<p>09/06/2013</p>	<p>A vacuum truck removed the spilt water from the well pad. The water was then transported to Kenya Pond. The operator has been reminded of the importance of following procedures to prevent spills and QGC has reviewed the standard operating procedure to reduce the risk of these types of incidents occurring in the future.</p>
<p>Following a rainfall event an unknown quantity of turbid water was discharged to Moramby Creek from the Moramby Creek crossing culvert work site near Isabella Field Compression Station.</p>	<p>21/07/2013</p>	<p>QGC's principal contractor, Thiess have rectified the erosion and sediment controls at the site and QGC has reinforced the importance expediting construction works and rehabilitation of creek crossings.</p>
<p>Approximately 1,660L of diesel was released to a hardstand area adjacent to the Ruby Jo Compression Office.</p> <p>The spill was caused by a ruptured hydraulic hose from a generator fed from a bulk fuel storage tank. The generator and fuel storage tank were both double bunded, however, the diesel overflowed both bunds.</p>	<p>27/07/2013</p>	<p>The spill was contained and cleaned up using absorbent materials. Accessible affected soils were removed and placed in a contaminated waste bin. A percentage of the diesel flowed under the raised Ruby Jo Compression Office and was not able to be removed. This material will be removed upon demobilisation of the office facility.</p>
<p>QGC's principal contractor, MPC, failed to notify DEHP that works associated with Moramby Creek crossing extended beyond 10 business days and the works were not completed within 180 days</p>	<p>29 September 2013</p>	<p>As soon as QGC became aware of the incident, MPC removed the temporary barrier and reinstated the creek.</p>

NOTIFICATION	DATE	Identified Remedial Actions
<p>as required under the by the Department of Agriculture, Fisheries and Forestry Code for self-assessable development: <i>Temporary Waterway Barrier Works</i>. The post works advice sheet was incorrectly submitted prior to the completion of the works in the waterway.</p>		
Bellevue Project Area		
<p>Approximately 12,000L of production water leaked from a truck during transport from Glen Eden Pond to McNulty Pond. The release was caused by a disconnection of a valve.</p> <p>The water was released to a stretch of Freeman road approximately 6km long. Freeman road crosses Columboola Creek and it is possible that small amount of liquid (less than 50L) may have been released to Columboola Creek.</p>	11/07/2013	<p>Once the driver identified the cause of the leak, he drove back towards Glen Eden Pond to locate and refit the missing valve. Water quality samples indicated that there was no evidence of environmental harm resulting from this spill.</p>
<p>As part of an internal compliance review, potential non-compliances with conditions relating to the regulated dam water quality monitoring of the Bellevue EA were identified. Five of the forty-nine parameters required by the EA were not monitoring and QGC did not monitor biannually as required by the EA.</p>	From July 2012 to July 2013	<p>QGC attempted to take samples from the groundwater bore associated with Glen Eden Pond during this monitoring period, however, the bore was dry. In order to ensure compliance with its monitoring obligations, QGC has reviewed the Regulated Dam Water Monitoring Program and the Groundwater Monitoring.</p>
Kenya Project Area		
<p>Following significant rainfall, approximately 4-6ML of turbid storm water was released to Nine Mile Creek in the Kenya Operating Area. This release occurred when a temporary containment structure to capture rainwater runoff overtopped at a low point.</p>	05/03/2013	<p>The baffle bund which failed was immediately reinstated to stop the overflow. Baffle 3 was emptied first and the remaining water in the temporary containment bund was pumped into and treated in Baffle 3 prior to an approved land discharge. Site personnel have been reminded of the importance of monitoring dewatering activities and to report any issues identified during rain events. In addition, a rock lined spillway has been constructed in the bund wall to prevent the rapid erosion of the bund wall material in the event that water was to spill over during any future rainfall events.</p>

NOTIFICATION	DATE	Identified Remedial Actions
Approximately 10ML of turbid storm water was released from Rhynie Baffle pond to Nine Mile Creek at the Kenya Operating Area. The incident occurred following significant rainfall events, which resulted in the saturation of the surrounding catchment area and an accumulation of storm water in the pond network.	06/03/2012	Due to on-going rainfall events, it can be difficult to prevent the release of storm water to Nine Mile Creek. In this instance, the discharge ceased approximately 24 hours after the rainfall event. QGC is continuing to dewater their storm water ponds in accordance with the EA conditions.
Approximately 50,000L of production water was released to land during the testing of a pipeline pump at Kenya Block in the Gas Fields. Works on an open pipeline were being conducted in a temporary bell hole which resulted in the bell hole filling with water.	29/03/2013	As soon as the water in the bell hole was identified, the pump was shut off and isolated. The water which had been contained in the bell hole was removed immediately and pumped back to Kenya Large Pond. The results of water and soil samples taken at the time of the incident showed that the water and soil were slightly saline. The saturated soils in the bell hole were removed and disposed of.
QGC's contractor was in the process of excavating around existing gathering lines near Lauren well 8 in order to install new pipe work. During this process, the excavator came in contact with the existing gathering water line, damaging the line and releasing approx. 50,000L of production water.	12/04/2013	Work stopped immediately and the pipe was isolated to prevent further release. The water was contained within the trench and removed to Kenya Large Pond. Water quality samples indicate that the water quality was such at the sub soil in the trench did not need to be removed. The trench was backfilled and topsoil re-spread.
A sediment basin in Kenya Pond overflowed into an associated drain. The fluid was predominantly bentonite and drill cuttings. Field samples also indicated the presence of saline water. Approximately 120m ³ of the drilling fluid and saline water was released and contained within the associated drain.	15/04/2013	An excavator: constructed a berm on the north-east corner of Kenya Pond to contain the spill; blocked the culvert on the north side of the Kenya Pond loading bay; and dug a channel to ensure any additional materials would be contained within the pond. The fluid was pumped into back into Kenya Pond.
On 18 June 2013 QGC became aware that QGC failed to notify DEHP that culvert works associated with a mapped watercourse extended beyond the required 10 days. The creek crossing is located at Cobbareena Creek in Matilda-John Block of the QCLNG Gas Fields. The works were being undertaken under the <i>Code for self-assessable development – Minor waterway barrier works – PART 3: CULVERTS</i> .	29/05/2013	QGC notified DEHP of the culvert works on 26 June 2013.
During the transport of an IBC of waste glycol, the operator pierced the IBC. Approximately 400L of glycol spilt to land	15/07/2013	The operator immediately moved the leaking IBC to a sump tank and a bobcat removed the affected hardstand area. .

NOTIFICATION	DATE	Identified Remedial Actions
predominantly to the hardstand area at the Central Compression Station at Kenya Block.		
Approximately 20,000L of production water was released to land from the Kenya Central Water Treatment Plant sediment pond. The spill was caused by a failure of the pump connection resulting in the release of water to land from the north-east side of the pond. The water then flowed in a westerly direction along the pond fence line with some of the water reaching a nearby degraded drainage feature.	16/08/2013	The operator stopped the pump and closed the inlet and discharge valves to prevent further release of water. An earth berm was constructed to prevent further release to the drainage feature. Pooled water adjacent to the pond was removed by a vacuum truck and transferred back to the sediment pond. The water which had escaped to the drainage feature was pumped out and QGC's principal contractor, Veolia, conducted daily visual inspections and salinity monitoring of the drainage feature.
During a compliance review it was identified that point source air monitoring had not been conducted at the Kenya Re-locatable Water Treatment (KRWTP) Plant within 3 months after commissioning as required by Condition (G15) and (G16) of the EA.	August 2012	QGC has conducted a comprehensive review of its monitoring program to ensure that all required monitoring is conducted in accordance with EA conditions.
A pump flange inside the Clean In Place (CIP) Tank at the Kenya Water Treatment Plant (KWTP) failed. This resulted in the release of water into an onsite storm water drain, through the storm water drainage system and into the first flush pond. The first flush pond filled and approximately 5,000L overflowed to a nearby degraded natural drainage feature at the front of the KWTP.	02/09/2013	Tank operators ceased filling the CIP and put the ultrafiltration (UF) and CIP systems in manual in order to prevent further discharge to CIP waste tank. In order to prevent further discharge of water into the low lying drainage area, the first flush pond pumps were started to redirect flow back into the UF backwash sump, which pumps into Orana 1 Pond. The site was visually inspected and spilt water from the ground near the CIP waste tank and from the drainage feature was removed by a vacuum truck and transferred to Kenya Pond.
Approximately 630 litres of diesel was released into the Kenya Office car park. The spill was caused by a cracked fuel filter in a generator and a leak in the concrete bund. The diesel leaked out of the generator, out of the concrete bund and onto hardstand area.	02/10/2013	The spill was contained and cleaned up and the generator was shut down. The bung hole on the bund was blocked and the fuel filter repaired. The generator bund and surrounding areas were cleaned up using a vacuum truck and a bob cat was used to remove any potentially contaminated soils from the spill area. The excavated material was placed in designated contaminated soil bins and disposed of as regulated waste.
Wolleebee Creek Project Area		

NOTIFICATION	DATE	Identified Remedial Actions
QGC's contractor Laing O'Rourke Australia Construction Pty Ltd identified an uncontrolled release of approx. 1000L of process water from Wolleebee Camp Reverse Osmosis Water Treatment Plant. This spill was contained to the hard stand.	17/01/2013	The result of the spill was identified as a failed pipe. This pipe was removed and reinstalled to ensure that it operated effectively to ensure the transfer of water from the storage tank to the overflow tank.
During the pumping out of sewage from the Wolleebee Creek Main Camp Sewage Treatment Plant (STP), a bolt on the back of a tanker failed causing an uncontrolled release of approximately 3,500L of untreated sewage to the hardstand.	22/04/2013	A pit was dug to contain the spill and the truck was moved forward to ensure the sewage continued to spill into the pit. Once the tanker was empty vice clamps were used to hold the broken part together and the truck was removed from site. A vacuum truck was used to remove the spilt sewage and the contaminated area was treated with hydrated lime.
Approximately 4000L of untreated sewage was released from the holding tanks of the Wolleebee Creek Main Camp Sewage Treatment Plant (STP). The tanks filled up and overflowed into a constructed drainage line and along works of an effluent line currently under construction.	09/06/2013	A sump pit and extra bund was constructed to ensure the spill was contained and hydrated lime was applied to the affected area. Soil samples were taken from the affected area after the clean-up and the laboratory results indicated that most of the parameters were comparable to background levels and all the parameters were within the NEPM guidelines.
During an internal compliance review potential non-compliances of the regulated dam water quality monitoring conditions in the Colebee Creek EA were identified. These breaches related to the parameters required to be monitored (five of the forty-nine parameters were not included) and the frequency of monitoring (not undertaken biannually as required).	8 July 2012 to 7 July 2013	To ensure this incident does not happen again, QGC has since included these parameters in the testing suite. The Regulated Dam Water Monitoring Program and the Groundwater Monitoring Program have been reviewed to ensure compliance with the EA.
During an internal compliance review QGC became aware of a potential non-compliance associated with treated effluent release to land from the Wolleebee Creek Fly Camp Sewage Treatment Plant (STP). This review identified that some parameters were only monitored approximately every 2 months, rather than monthly as required in the EA. In addition, the review identified exceedences of biological oxygen demand, total phosphorus and total nitrogen.	July 2012 to July 2013	As soon as QGC became aware of the incident, irrigation to land ceased and the treated effluent was transported off site for appropriate disposal. QGC has liaised with its principal contractor to ensure required maintenance works are completed and a compliant monitoring program is implemented before recommencing effluent irrigation.

NOTIFICATION	DATE	Identified Remedial Actions
<p>An estimated 570,000L of treated effluent from the Wolleebee Creek Fly Camp STP was irrigated outside the designated irrigation area but within the perimeter of the nearby Wolleebee Creek Main Camp. The treated effluent was used to irrigate rehabilitated areas on the helipad batter and the internal camp batter.</p>	<p>23/07/2013 to 10/08/2013</p>	<p>As soon as QGC became aware of the incident irrigation to land ceased and effluent was transported off site via a regulated waste contractor, for appropriate disposal. The water quality results for the treated effluent indicate (that for the parameters tested) the water quality was such that it would meet the land release criteria in the EA.</p>
<p>QGC failed to notify DEHP that culvert works associated with a mapped watercourse extended beyond the 10 days prescribed by Condition B12 of the Environmental Authority.</p> <p>The creek crossings were located within Cam Block about 30km south-west of Wandoan. The works are being undertaken under the Department of Agriculture, Fisheries and Forestry Code for self-assessable development: <i>Temporary Waterway Barrier Works (WWBW02)</i>.</p>	<p>31/08/2013</p>	<p>QGC notified DEHP of the culvert works on 27 September 2013.</p>
<p>QGC became aware of a failure to notify DEHP within the required 24 hours of the death of protected animals under the <i>Nature Conservation Act 1992</i>. Condition 9 of CG Report for the Queensland Curtis LNG Project states that the permit holder must ensure any protected animals injured by clearing activities under this permit are referred to an appropriate wildlife carer group or veterinarian (to be predetermined prior to clearing) and DEHP must be notified within 24 hours of any injuries or deaths.</p>	<p>Between August and September 2013</p>	<p>On 4 October 2013, QGC notified DoE of the failure to report the fauna deaths within the required 24 hours. QGC continues to refine its processes to ensure that it reports fauna injuries and deaths to DEHP within the required 24 hours.</p>
Jordan Project Area		
<p>During clearing activities at the Kenya East field, fauna spotters identified micro-bats that had been injured. The fauna spotters arranged for transportation of the micro-bats to an appropriate wildlife carer. During the transportation, five adult and two juvenile micro-bats died.</p>	<p>27/11/2012</p>	<p>As soon as QGC's contractor, Murphy Pipe and Civil (MPC) became aware of the injured micro-bats, appropriate arrangements were made for their care and transportation to an emergency wild life carer. After receiving care from the wildlife carer overnight, the surviving 23 micro-bats were transported to Australia Zoo for further treatment. MPC conducted an investigation after this incident and revoked the services of the company who had employed these fauna spotters.</p>

NOTIFICATION	DATE	Identified Remedial Actions
On 12 September 2013, QGC became aware that water quality results for treated effluent released to land at Brentleigh Park Camp STP exceeded the parameters contained in the EA.	08/05/2013	QGC in conjunction with its principal contractor APC continues to review the operation of the STP and the plant's monitoring program to ensure that the plant complies with the conditions in the EA and land release requirements.
During dewatering of an excavation area a mix of water and cement fines was unintentionally released to Wambo Creek through a temporary sediment trap. It is estimated between 500-1000L was pumped from the excavation area to the sediment trap although only minor cement residue was observed at the discharge site.	07/07/2013	As soon as the incident was identified, dewatering ceased and a vacuum truck was used to remove the water from the excavation. Personnel on site were instructed not to dewater to the sediment trap for further dewatering. New temporary sediment controls were installed and the cement fines were excavated from creek via hand tools. Water quality monitoring of the receiving waters was undertaken on the day following the incident. Results indicated a return to background pH levels within 24 hours.
On 19 September 2013, QGC became aware that water quality results for treated effluent released to land at Brentleigh Park Camp STP exceeded the parameter contained in the EA.	30/08/2013	Once the monitoring results were received, irrigation to land ceased immediately. QGC in conjunction with its principal contractor APC continues to review the operation of the STP and the plant's monitoring program to ensure that the plant complies with the conditions in the EA and land release requirements.
Northern Corridor Area and other Trunklines		
On 5 August, QGC became aware of over-clearing at two locations on the E04 Trunkline at Lauren field, approximately 40km south-west of Chinchilla. The first was at Cobareena Creek, (KP6) and the second was at Wieambilla Creek, (KP2.8).	03/08/2013	QGC has reviewed its process to ensure this type of incident does not happen again. Some of the improvements in processes include; reviewing environmental constraints for the remainder of the RoW; increased handover time between Field Environmental Advisors to ensure sufficient information of upcoming works is transferred prior to the FEA leaving on break; daily pre-start meetings which include relevant environmental issues; and rehabilitation of the cleared area.
QGC became aware on 20 September 2013 that it failed to provide the administering authority with information relating to the works to be undertaken at least 5 (five) business days before commencing significant disturbance from linear infrastructure or maintenance works occurring in or on the beds and banks of a watercourse required by EA EPPG00952213.	18/08/2013	QGC provided the required information to DEHP on 27 th September 2013.

NOTIFICATION	DATE	Identified Remedial Actions
On 3 October 2013, QGC became aware that it had failed to provide the administering authority with information relating to the works to be undertaken at least 5 (five) business days before the commencement of significant disturbance from linear infrastructure or maintenance works occurring in or on the beds and banks of a watercourse required by EPPG00674013.	23/09/2013	QGC provided the required information to DEHP on 3 October 2013.