3 SUMMARY OF PROJECT COMPONENTS

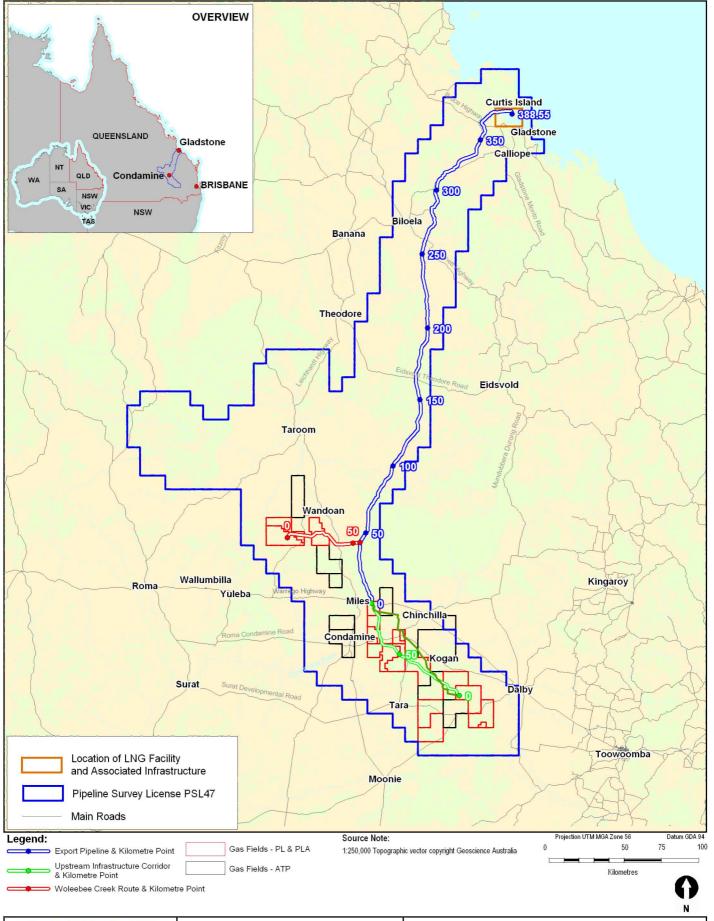
The Queensland Curtis LNG (QCLNG) Project draft environmental impact statement (EIS) described the Project Components as QGC Project Components and Ancillary Components. A summary of these, including key changes subsequent to preparation of the draft EIS, is provided below.

3.1 AMENDMENT TO DESCRIPTION OF PROJECT COMPONENTS

The five Project Components as described in *Volume 2, Chapter 3* of draft EIS are outlined in *Table 2.3.1* below, along with a brief description of key changes. Detailed descriptions of changes to elements within each Component are provided in *Chapters 6* to *17* of this volume.

The location of Project Components is shown in *Figure 2.3.1*. Note that no significant changes to the geographic location of the Project have been made subsequent to submission of the draft EIS.

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QUEENSLAND Project Queensland Curtis LNG Project		Title QCLNG Project Study Area
CURTIS LNG A BG Group business	Client QGC - A BG Group business	
	Drawn Unidel sEIS Volume 2 Figure S2.3.1	Disclaimer: Maps and Figures contained in this Report may be based on Third Party Data,
ERM Environmental Resources Management Australia Pty Ltd	Approved CDP File No E05-P-MA-96245	may not be to scale and are intended as Guides only. ERM does not warrant the accuracy of any such Maps and Figures.
	Date 18.01.10 Revision Supplementary	Elin account manar are accuracy of any cach maps and rigation.

 Table 2.3.1
 Amendments to Project Components

Project Component	Draft EIS description	Amendment of Description for Supplementary EIS
Gas Field Component	The expansion of QGC's coal seam gas (CSG) operations in the Surat Basin. The Gas Field Component comprises: • Approximately 6,000 gas production wells over the life of the project with initially 1,000 to 1,500 wells across the Gas Field by mid-2014. The remaining wells will be phased in over the life of the project (20 to 30 years) to replace declining wells • gas- and water-gathering systems and gas processing and compression infrastructure • associated surface equipment, such as wellhead separators, telemetry devices and metering stations • field infrastructure such as access tracks, warehouses, camps (both construction and operations), office and telecommunications • the management of Associated Water produced in the CSG extraction process on the petroleum tenements. Water transported off the petroleum tenements for beneficial use, as defined by the Water Act 2000 (Qld), is not discussed in this Environmental Impact Statement (EIS).	Associated surface equipment may also include wellhead compression. Reference to replace declining wells has been removed as the post-2014 wells will augment the initial 1,500 to ensure steady gas flow to the LNG Facility.
Pipeline Component	Development, construction, operation and decommissioning of a gas pipeline network of approximately 730 km to link the Gas Field Component and other nearby CSG resources to the LNG Facility. The pipeline network includes: • a 380 km Export Pipeline from QGC's Gas Field in the Surat Basin to the LNG Facility in Gladstone • potentially a 150 km Lateral Pipeline, which enables the connection of additional CSG fields to the Export Pipeline • a 200 km Collection Header – a central pipeline located in an Upstream Infrastructure Corridor (UIC) to collect gas from centralised compressor facilities for delivery to the Export Pipeline • a pipeline crossing at The Narrows connecting the mainland Export Pipeline with the LNG Facility on Curtis island.	Lateral Pipeline has been removed from the EIS Reference Case and is no longer included as part of the Project impact assessment. Reconfiguration of the gas Collection Header to Woleebee Creek.

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Basin Strategic Dredging and Disposal (WBSDD) Project_and is therefore no longer included as part of

Project

impact

the

assessment.

Project Amendment of Description Draft EIS description Component for Supplementary EIS LNG Development, construction and operation refrigeration Gas and within the Curtis Island Industry Precinct of Component liquefaction units will have the Gladstone State Development Area production average (GSDA) of an LNG processing plant (LNG capacity of approximately Facility) with production capacity up to 12 4 mtpa (per LNG train). In million tonnes a year, nominally comprising any given year, production three LNG processing units or 'trains' with 4 mav be up mtpa production capacity each. The LNG approximately 4.3 mtpa of Component comprises: LNG per train, subject to optimisation of operations onshore gas reception facilities and maintenance gas pre-treatment facilities for the scheduling. removal of water and impurities from the The three full containment feed gas LNG storage tanks will be gas refrigeration and liquefaction units smaller, with capacities of sized for 4 mtpa production trains between 140,000 m³ and a nitrogen rejection unit for the removal 160,000 m³ each. of nitrogen in the feed gas The full containment three full containment LNG storage tanks propane storage tank with with up to 180,000 m³ capacity each, with approximately 100,000 m³ space for another if required capacity has a full containment propane storage tank removed from the EIS with approximately 100,000 m³ capacity Reference Case and is no longer included as part of jetty and docking facilities with turning Project impact basin for the loading of LNG carriers and the assessment. unloading of propane ships to storage a material offloading facility (MOF) for Jetty and docking facilities will be for loading of LNG ferry transportation and construction carriers only. Unloading of material receiving bulk propane will not be associated onshore mainland facilities required. utility requirements to support the LNG Facility. The MOF Channel will Swing Basin Comprising the development of the following: provide access during both and Channel MOF Channel - a temporary access construction and operation channel to the MOF for vessel access of the Project. during construction of the Project In addition to the MOF Curtis Spur Channel consisting of Berth Channel. a near-shore Pocket, Swing Basin, Connecting channel will be required to Channel and upgrade of existing port provide vessel access to a channels . Construction Dock during consideration of the range of options for the construction of the disposal or use of dredge material from Project. dredging activities undertaken for the Disposal or use of dredge above. material for the MOF Channel and dredging for initial site access to a Construction Dock considered as part of this supplementary EIS. Disposal or use of dredge material from the Curtis Spur Channel considered under the Port Gladstone Western

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Project Component	Draft EIS description	Amendment of Description for Supplementary EIS
Shipping Operations	Regular transit of LNG tankers and, potentially, infrequent transit of ships carrying propane to the LNG Facility for the 'spiking' of LNG. Shipping operations will involve three stages: loading LNG/unloading propane at the marine jetty; transit of ships through Gladstone Harbour; and transit of ships through the Great Barrier Reef Marine Park to open ocean.	The Project no longer proposes 'spiking' of LNG with propane. Bulk LPG carriers to deliver and unload propane have been removed from the EIS Reference Case and are no longer included as part of the Project impact assessment.

3.2 AMENDMENT TO DESCRIPTION OF ANCILLARY INFRASTRUCTURE

As noted in the draft EIS, the execution of the Project will require a range of associated or Ancillary Infrastructure. Other parties, solely or possibly with the involvement of QGC, will develop this Ancillary Infrastructure. The environmental assessment and planning permit processes for these Components are separate to this EIS.

Ancillary infrastructure as described in *Volume 2, Chapter 3* of draft EIS are outlined in *Table 2.3.2* below, along with a brief description of key changes.

Table 2.3.2 Amendments to Project Ancillary Infrastructure

Project Component	Draft EIS description	Amendment of Description for Supplementary EIS
Associated Water Infrastructure	Off-tenement transport of the associated water, covering water produced from the development of the Gas Field Component off-tenement and its beneficial use.	As for draft EIS.
Western Basin Strategic Dredging and Disposal (WBSDD) Project	The WBSDD Project to be undertaken by Gladstone Ports Corporation (GPC) involves the staged dredging of five new shipping channels and the reclamation of land in the Western Basin of the Port of Gladstone using the dredged material.	Western Basin Dredging and Disposal Project as described in the Gladstone Ports Corporation EIS as issued for public comment November 2009.
Bridge and Roads	Construction and operation of roads connecting existing roads on the mainland side of the Port of Gladstone with Curtis Island via a bridge from Friend Point to Laird Point. This is an alternative access option to marine transportation that is currently not preferred by QGC, and permitting for this component is not sought under this EIS.	A bridge and associated roads from Gladstone mainland to Curtis Island is not proposed by the Project and forms no part of planning for construction, operation or decommissioning of the LNG Facility. The bridge and associated roads have been removed from the EIS Reference Case and are no longer included as part of the Project impact assessment.

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