

**PREFACE****STRUCTURE OF THE SUPPLEMENTARY EIS**

This supplementary environmental impact statement (sEIS) addresses specific matters raised through public consultation conducted for the Queensland Curtis LNG (QCLNG) Project draft EIS. The document presents, and responds to, matters raised by stakeholders including government, interest groups and local communities.

The supplementary EIS also provides additional information about the Project not available at the time the draft EIS was lodged for public exhibition.

The supplementary EIS is the final report on the Project's potential impacts and benefits. The supplementary and draft EIS, together, are the primary documents on which regulators will rely to assess the Project. For this reason, it is recommended that, to gain a full understanding of the proposed Project, the supplementary EIS is read in conjunction with the draft EIS.

For the purpose of the Commonwealth Government's EIS assessment process, this supplementary EIS and the draft EIS constitute the Final Environmental Impact Assessment.

The supplementary EIS is ordered into the following volumes:

- *Volume 1:* EIS Process Overview
- *Volume 2:* Project Description
- *Volume 3:* Assessment of Environmental Impacts of the Gas Field Component
- *Volume 4:* Assessment of the Environmental Impacts of the Pipeline Component
- *Volume 5:* Assessment of the Environmental Impacts of the LNG Component
- *Volume 6:* Assessment of the Environmental Impacts of the Swing Basin and Shipping Channel Construction
- *Volume 7:* Greenhouse Gas Management
- *Volume 8:* Assessment and Management of Social, Cultural and Economic Impacts
- *Volume 9:* Gas Field Component of the Environmental Management Plan

- *Volume 10:* Pipeline Component of the Environmental Management Plan
- *Volume 11:* LNG Component of the Environmental Management Plan
- *Volume 12:* Stakeholder Consultation
- *Volume 13:* EPBC Assessment Report

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**ACKNOWLEDGMENTS**

QGC Pty Limited (QGC) is the Proponent of the QCLNG Project. QGC acknowledges that Indigenous people were the first peoples of Australia, and respects the traditional custodians and elders of this country.

QGC will work with Traditional Owners and other Indigenous community members so that Indigenous obligations to care for country are respected, and Indigenous people benefit from QCLNG.

The company would also like to thank all stakeholders, including government agencies, local organisations and the community, for their contributions to this document. Their considered comments and input on the draft EIS enabled QGC to further investigate issues of concern, and to refine measures to mitigate impacts or maximise benefits.

QGC engaged consultants and other specialists to help prepare this document. These independent third parties assisted in gathering or collating baseline data, assessing impacts and recommending management and monitoring measures. Specialist sub-consultants prepared various additional studies, and a list of these sub-consultants was provided in *Appendix 1.4* of the draft EIS<sup>1</sup>.



Environmental Resource Management (ERM) Australia coordinated the preparation of the draft EIS and the supplementary EIS and undertook the impact assessment for the LNG Component and Shipping Operations of the QCLNG Project.

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<sup>1</sup> Study Team correction: In the draft EIS (Appendix 1-4) Mr. Mark Caslin was presented as a member of the EIS Study Team. This statement was made in error and Mark was not in fact a member of the EIS Study Team."



Environmental and Licensing Professional Pty Ltd (EPL) and Unidel Group Pty Ltd (Unidel) prepared the impact assessment for the Gas Field and Pipeline Components of the QCLNG Project



Elliott Whiteing Pty. Ltd.

Elliott Whiteing Pty Ltd coordinated the social, cultural and economic impact assessment for the whole of the QCLNG Project.

**READING THIS SUPPLEMENTARY EIS**

The supplementary EIS for the QCLNG Project is ordered into distinct volumes and chapters responding to stakeholder submissions on the draft EIS and describing updates or changes to the Project design. Additional information supporting, or with direct relevance to, the chapter or submissions received through the public consultation process is presented in appendices at the end of each volume. For a complete understanding of the QCLNG Project and its potential impacts the supplementary EIS should be read in conjunction with the draft EIS of August 2009.

For those stakeholders who made a formal submission to the Department of Infrastructure and Planning, a submission index which lists all submitters, their submission and where they can find QGC's response is provided following this outline. It is advised that submitters refer to this table for clear direction as to where and how their submission has been addressed.

The *Executive Summary, Volume 1* and *Volume 2* provide a broad introduction to key changes made to the QCLNG Project. These changes are the result of both ongoing refinements to the Project's design and submissions received by key stakeholders, including the public, through the EIS consultation process. *Volumes 3, 4, 5, 6* and *7* describe changes to the environmental impact assessment of the four major components of the project:

- Gas Field Component
- Pipeline Component
- LNG Component including the marine facilities and other ancillary infrastructure.
- Shipping operations.

Stakeholders who have made submissions and decision makers interested in changes to impacts and benefits in the Gladstone region from the LNG Component of the QCLNG Project should consult *Volumes 1, 2, 5, 6, 7, 8* and *11* of this supplementary EIS.

Stakeholders who have made submissions and decision makers interested in changes to impacts and benefits from the Pipeline Component between Gladstone and Dalby should consult *Volumes 1, 2, 4, 8* and *10*.

Stakeholders who have made submissions and decision makers interested in changes to impacts and benefits from the Gas Field Component in the area around Dalby and Chinchilla should consult *Volumes 1, 2, 3, 7, 8* and *9*.

Stakeholders who have made submissions and decision makers interested in changes to QCLNG Project dredging program for marine operating facilities should consult *Volumes 2, 5* and *6*.

*Volume 12* presents the outcome of the stakeholder consultation process QGC followed in preparing the draft EIS and this supplementary EIS. *Volume 13* presents an updated report on actions requiring assessment under the Commonwealth *Environment Protection and Biodiversity Conservation (EPBC) Act 1999*.

Submission of this supplementary EIS completes the formal EIS environmental approval application process for the QCLNG Project.

**Note: items in bold indicate in which volumes and chapters of the sEIS the submission has been directly addressed. References to other volumes and chapters (not in bold) refer to additional information relevant to the submission.**

Submitter	Submission Number	Project Component	Environmental / Social Factors	sEIS Reference
Callide Valley Landcare Group	1	Pipeline Component	Weed Management	<b>Vol 3,7; Vol 4,7;</b> Vol 9; Vol 11
Private Submission	2, 3 and 4	LNG Component	Hazard and Risk	<b>Vol 1,2; Vol 5,18; Vol 8,6</b>
Private Submission	2, 3 and 4	LNG Component	Site Selection	<b>Vol 1,2; Vol 5,18</b>
Private Submission	2, 3 and 4	Pipeline Component	Waste management	<b>Vol 4,15</b>
Fodder King	5	CSG Field	Associated Water	Vol 2,7; Vol 3,11; Vol 3,19
Private Submission	6	LNG Component	Hazard and Risk	<b>Vol 5,18</b>
Private Submission	6	LNG Component	Public access to harbour	Vol 5,8; <b>Vol 8,6</b>
Private Submission	6	LNG Component	Terrestrial and Marine Ecology	<b>Vol 5,7;</b> Vol 5,8; Vol 13
Private Submission	6	LNG Component	Curtis Is. Workers accommodation	Vol 2,9; Vol 2,6; Vol 8,6
Private Submission	6	LNG Component	Dredging	<b>Vol 6</b>
Private Submission	7	CSG Field	Gas Field Infrastructure	Vol 2,7; Vol 3,5
Private Submission	7	CSG Field	Consultation Process	<b>Vol 12</b>
Private Submission	7	CSG Field	Hazard and Risk/ Bushfires	<b>Vol 3,17; Vol 8,4</b>
Private Submission	7	CSG Field	Associated Water/Ground water	<b>Vol 3,10; Vol 3,11</b>
Private Submission	7	CSG Field/Pipeline	Code of Conduct for activities	<b>Vol 8,4</b>
Gangulu People	8	Whole of Project	Negotiations and Compensation arrangements	<b>Vol 8,4;</b> Vol 8,5; Vol 8,6
Gangulu People	8	Whole of Project	Closing the Gap	<b>Vol 8,4;</b> Vol 8,6
Gangulu People	8	Whole of Project	Recognition	<b>Vol 8,4;</b> Vol 8,6
Gangulu People	8	Whole of Project	Programs development	<b>Vol 8,4;</b> Vol 8,6
Gangulu People	8	Whole of Project	Social management plans and performance	<b>Vol 8,4;</b> Vol 8,5; Vol 8,6
Gangulu People	8	Whole of Project	Emergency Response Plan	Vol 5,18
Gangulu People	8	CSG Field	Gas Field Infrastructure	<b>Vol 2,7; Vol 8,4</b>
Private Submission	9	CSG Field	Gas Field Infrastructure	<b>Vol 2,7; Vol 3,5</b>
Private Submission	9	CSG Field	Consultation	<b>Vol 12</b>
Private Submission	9	CSG Field	QGC Compliance Record	Vol 1,2
Private Submission	9	CSG Field	Hazard and Risk/ Bushfires	<b>Vol 3,17; Vol 8,4</b>
Private Submission	9	CSG Field	Impacts on Greenhouse Gases and climate change	<b>Vol 7</b>
Private Submission	9	CSG Field	Associated Water	<b>Vol 3,11</b>

Submitter	Submission Number	Project Component	Environmental / Social Factors	sEIS Reference
Private Submission	9	CSG Field	Noise	<b>Vol 3,13</b>
Queensland Health	10	CSG Field	Associated Water	Vol 2,7; <b>Vol 3,11</b> ; Vol 3,19
Queensland Health	10	CSG Field/ Pipeline Components	Associated Water and Camp Water	Vol 2,7; Vol 2,8; Vol 2, 11; Vol 2,12; <b>Vol 8,4; Vol 3,11</b>
Queensland Health	10	Whole of Project	Workers Accommodation Camps - Noise/ Food licensing/ Air quality	Vol 2,7; Vol 2,8; Vol2, 11; Vol 2,6; Vol 2,12; <b>Vol 8,4</b> ; Vol 8,5; Vol 8,6; Vol 5,13; <b>Vol 3,12; Vol 3,13, Vol 3,17</b>
Private Submission	11	CSG Field	Hazard & Risk	<b>Vol 3,17</b>
Private Submission	11	CSG Field	Gas Field Infrastructure	<b>Vol 2,7; Vol 3,5</b>
Private Submission	12	CSG Field	Consultation	<b>Vol 12</b>
Private Submission	12	CSG Field	Gas Field Infrastructure	<b>Vol 2,7; Vol 3,5</b>
Private Submission	12	CSG Field	Hazard & Risk	<b>Vol 3,17</b>
Private Submission	12	CSG Field/Pipeline	Noise	<b>Vol 3,13</b>
Private Submission	12	CSG Field	Associated Water	Vol 2,7; <b>Vol 3,6; Vol 3,11</b> ; Vol 3,19
Private Submission	12	CSG Field	Community health and safety from drilling operations.	Vol 3,6
Private Submission	13	Whole of Project	EIS Presentation	<b>Vol 1,3</b>
Private Submission	13	CSG Field	Health and Safety	<b>Vol 8,4</b>
Toowoomba Regional Council	14	CSG Field/ Pipeline Components	Impact on Toowoomba City	Vol 8,4; Vol 12
Toowoomba Regional Council	14	CSG Field/ Pipeline Components	Consultation	<b>Vol 12</b>
Toowoomba Regional Council	14	CSG Field/ Pipeline Components	Workers Accommodation Camps/Housing	Vol 2,7; Vol 2,8; Vol 2,11; Vol 2,6; Vol 2,12; <b>Vol 8,4</b> ; Vol 8,5; Vol 8,6
Toowoomba Regional Council	14	CSG Field/ Pipeline Components	Impacts on social services and education	Vol 8,4; Vol 8,5
Toowoomba Regional Council	14	CSG Field/ Pipeline Components	Cumulative impacts on the area	<b>Vol 8,4</b> ; Vol 8,5
Toowoomba Regional Council	14	CSG Field/ Pipeline Components	Council Recommendations and management plans	<b>Vol 8,4</b> ; Vol 8,5
Waminda Services Ltd	15	Whole of Project	Social services and infrastructure	<b>Vol 8,4</b>
Private Submission	16	LNG Plant	Commercial fishing	<b>Vol 8,6</b>
Private Submission	16	LNG Plant	Access to the Harbour, waters and boat ramps	<b>Vol 8,6</b>
Private Submission	16	Pipeline Crossing	Access to waters during pipeline construction	Vol 2,12; Vol 8,5

Submitter	Submission Number	Project Component	Environmental / Social Factors	sEIS Reference
Private Submission	16	Pipeline Crossing	Environmental impacts of Pipeline crossing	Vol 5,8
The MAC Services Group	17	Whole of Project	Commercial provision of temporary housing -	<b>Vol 8,4; Vol 8,6</b>
Xstrata Coal	18	CSG Field/Pipeline	QGC and Wandoan Coal Project	<b>Vol 3,5; Vol 3,10</b>
Private Submission	19	CSG Field	Hazard and Risk / Bushfires	<b>Vol 3,17, Vol 8,4</b>
Private Submission	19	CSG Field	Chemical exposure of drilling and gas field infrastructure	<b>Vol 3,5; Vol 3,6</b>
Private Submission	19	CSG Field	Transport / Road safety	<b>Vol 3,14</b>
Private Submission	19	CSG Field	Associated Water	<b>Vol 3,11</b>
Private Submission	19	CSG Field/Pipeline	Code of Conduct for activities	<b>Vol 8,4</b>
Surat Basin Homes Pty Ltd	20	CSG Field/Pipeline	Workforce accommodation housing/camps	Vol 2,7; Vol 2,8; Vol2,11; Vol 2,6; Vol 2,12; <b>Vol 8,4; Vol 8,5; Vol 8,6</b>
Gladstone Ports Corporation	21	LNG Plant	LNG Shipping Activities	Vol 2,13; Vol 5,15.
Gladstone Ports Corporation	21	LNG Plant	Hazard and Risk - propane	<b>Vol 2,9; Vol 5,18</b>
Gladstone Ports Corporation	21	LNG Plant	Transport impacts of materials and personnel	<b>Vol 2,13</b>
Gladstone Ports Corporation	21	LNG Plant	Dredging of Swing Basin and Channel Construction	<b>Vol 2,14; Vol 6; Vol 5,8</b>
Gladstone Ports Corporation	21	Pipeline Component	Transport of Pipe	<b>Vol 4,13; Vol 5,14</b>
Gladstone Ports Corporation	21	LNG Plant	LNG EMP	Vol 11
Gladstone Ports Corporation	21	LNG Plant	Cumulative impacts	<b>Vol 4,17; Vol 5,7; Vol 5,8; Vol 5,13; Vol 5,14</b>
Queensland Seafood	22	LNG Plant/Pipeline Crossing	Location of crossing	Vol 2,12; <b>Vol 8,6</b>
Queensland Seafood	22	LNG Plant/Pipeline Crossing	Marine ecology	Vol 5,8; Vol 13
Queensland Seafood	22	LNG Plant/Pipeline Crossing	Land Reclamation / Dredging	<b>Vol 2,14; Vol 6; Vol 5,8, Vol 8,6</b>
Queensland Seafood	22	LNG Plant/Pipeline Crossing	Local fishing industry	<b>Vol 8,6</b>
PCCC	23	Whole of Project	Cultural Heritage	Vol 8,7
PCCC	23	Pipeline Component	Cultural Heritage	Vol 2,12; <b>Vol 8,7</b>
PCCC	23	Pipeline Component	Offsets	<b>Vol 4,7</b>
PCCC	23	LNG Plant	Cultural Heritage	Vol 2,12; <b>Vol 8,7</b>
PCCC	23	LNG Plant / Pipeline Crossing	Cumulative impacts	Vol 5,7; Vol 5,8; Vol 5,13; Vol 5,14

Submitter	Submission Number	Project Component	Environmental / Social Factors	sEIS Reference
PCCC	23	LNG Plant / Pipeline Crossing/ Dredging	Fishing	<b>Vol 8,6</b>
PCCC	23	LNG Plant / Pipeline Crossing	Vegetation Clearing	Vol 5,7; Vol 5,8
PCCC	23	LNG Plant / Pipeline Crossing	Marine ecology	Vol 2,12; Vol,5,8
PCCC	23	LNG Plant / Pipeline Crossing	Bridge	<b>Vol 8,4</b>
Capricorn Conservation Council	24	LNG Plant	Alternatives considered	<b>Vol 1,2</b>
Capricorn Conservation Council	24	LNG Plant	Dredging (General)	Vol 2,14; Vol 6; Vol 5,8
Capricorn Conservation Council	24	LNG Plant	Propane spiking	<b>Vol 2,9</b>
Capricorn Conservation Council	24	LNG Plant	Impact of proposed bridge	<b>Vol 1,2; Vol 2,9</b>
Capricorn Conservation Council	24	LNG Plant	Climate Change	Vol 7
Capricorn Conservation Council	24	LNG Plant	Vegetation Clearing	<b>Vol 5,7</b>
Capricorn Conservation Council	24	LNG Plant	Terrestrial ecology	<b>Vol 5,7</b>
Capricorn Conservation Council	24	LNG Plant/Dredging	Marine ecology	Vol 2,14; Vol 6; Vol 5,8.
Capricorn Conservation Council	24	LNG Plant/Dredging	Offsets strategy	<b>Vol 5,7; Vol 6</b>
Capricorn Conservation Council	24	LNG Plant	Cumulative impacts	<b>Vol 5,7; Vol 5,8;</b> Vol 5,13; Vol 5,14
Capricorn Conservation Council	24	Dredging	Water quality and sedimentation	Vol 2,14; Vol 6; Vol 5,8
Capricorn Conservation Council	24	Dredging	Studies and Information / Cumulative impacts	<b>Vol 6;</b> Vol 5,8
Capricorn Conservation Council	24	Dredging	Timing of works	Vol 2,14; Vol 6; Vol 5,8
Fitzroy Basin Association	25	EIS General	Assessment methodology	Vol 1,2; <b>Vol 1,3; Vol 3,7</b>
Fitzroy Basin Association	25	EIS General	EIS Review	<b>Vol 12</b>
Fitzroy Basin Association	25	Whole of Project	Greenhouse Gas and Climate Change	<b>Vol 3,2; Vol 7</b>
Fitzroy Basin Association	25	CSG Field	Impact Assessment	Vol 1,3
Fitzroy Basin Association	25	CSG Field	Marine ecology	Vol 3,8; Vol 4,8; Vol 5,8
Fitzroy Basin Association	25	CSG Field	Vegetation Clearing and Management / Rehabilitation	<b>Vol 3,7</b>
Fitzroy Basin Association	25	CSG Field	Weed Management	<b>Vol 3,7</b>
Fitzroy Basin Association	25	LNG Plant	Impact Assessment	Vol 1,3
Fitzroy Basin Association	25	LNG Plant	Cumulative impacts	<b>Vol 5,7;</b> Vol 5,8; Vol 5,13; Vol 5,14
Fitzroy Basin Association	25	CSG Field	Cumulative impacts	<b>Vol 3,18</b>
Fitzroy Basin Association	25	Pipeline Component	Vegetation management / rehabilitation	Vol 4,7

Submitter	Submission Number	Project Component	Environmental / Social Factors	sEIS Reference
Fitzroy Basin Association	25	CSG Field	Ground water monitoring	Vol 3,10
Fitzroy Basin Association	25	LNG Plant	LNG/LPG Vessels	Vol 2,9; <b>Vol 5,18</b>
Fitzroy Basin Association	25	LNG Plant	Foreshore damage	Vol 5,15
Fitzroy Basin Association	25	Dredging	Swing Basin and Channel Construction	<b>Vol 2,14</b> ; Vol 6; Vol 5,8
Fitzroy Basin Association	25	Dredging	Sick and injured wildlife	Vol 6
Fitzroy Basin Association	25	LNG Component	Hazard & Risk	<b>Vol 5,18</b>
Fitzroy Basin Association	25	LNG Plant	Shipping Environmental Impact	<b>Vol 5,15</b>
Fitzroy Basin Association	25	LNG Component	General Issues with EMP	No Comment
WWF	26	Shipping/Swing Basin Dredging and Reclamation	Environmental Impacts of reclamation / dredging works for the Marine Facilities	<b>Vol 2,14; Vol 6; Vol 5,8</b>
WWF	26	EIS General	Legislative Head of Power for assessment of the QCLNG Project	Vol 1,5
WWF	26	EIS General	Impact assessment methodology	<b>Vol 1,3</b>
WWF	26	Shipping/Swing Basin Dredging and Reclamation	Marine ecology	Vol 2,14; <b>Vol 5,8; Vol 6</b>
Department of Transport and Main Roads	27	Whole of Project	Traffic and Transport	<b>Vol 2,13; Vol 3,14; Vol 4,13; Vol 5,14</b>
Department of Transport and Main Roads	27	Pipeline Component	Rail Transport	<b>Vol 2,8; Vol2,12; Vol 4,17</b>
Department of Transport and Main Roads	27	Pipeline Component	Cumulative impacts	<b>Vol 4,17</b>
Department of Transport and Main Roads	27	LNG Plant	Shipping	<b>Vol 5,15</b>
Banana Shire Council	28	CSG Field/Pipeline	Waste management	Vol 4,15
Banana Shire Council	28	CSG Field/Pipeline	Weed and Pest Management	<b>Vol 3,7; Vol 4,7</b>
Banana Shire Council	28	CSG Field/Pipeline	Flammable and Combustible liquids licensing	As per draft EIS
Banana Shire Council	28	CSG Field/Pipeline	Transport	Vol 3,14; <b>Vol 4,13</b>
Banana Shire Council	28	CSG Field/Pipeline	Hazard and Risk	Vol 3,17
Banana Shire Council	28	CSG Field/Pipeline	Workers Accommodation Camps / Housing	Vol 2,7; Vol 2,8; Vol 2,11; Vol 2,6; Vol 2,12; Vol 8,4; Vol 8,5
Banana Shire Council	28	CSG Field/Pipeline	Vegetation Clearing	Vol 3,7

Submitter	Submission Number	Project Component	Environmental / Social Factors	sEIS Reference
Banana Shire Council	28	CSG Field/Pipeline	Cumulative impacts	<b>Vol 4,17</b>
Banana Shire Council	28	CSG Field	Environmental Amenity and Nuisance	Vol 3,13
Banana Shire Council	28	EIS General	Water use	Vol 6
Gladstone Regional Council	29	LNG Plant/Pipeline	Transport	Vol 2,9; <b>Vol 4,9</b> ; <b>Vol 4,17</b> ; <b>Vol 5,14</b>
Gladstone Regional Council	29	LNG Plant	SIA Methodology and Assessment	Vol 8,1; Vol 8,2; Vol 8,3
Gladstone Regional Council	29	LNG Plant	Health Access Services	<b>Vol 8.6</b>
Gladstone Regional Council	29	LNG Plant	Workers Accommodation Camps	Vol 2,6; Vol 2,9; <b>Vol 8,6</b>
Gladstone Regional Council	29	LNG Plant	Aviation safety / Bridge	<b>Vol 1,2</b> ; <b>Vol 2,9</b> , <b>Vol 5,12</b>
Gladstone Regional Council	29	LNG Plant/Pipeline Crossing	Workers Accommodation Camps / Housing / Workforce Issues	Vol 8,5; <b>Vol 8,6</b>
Gladstone Regional Council	29	Whole of Project	Dangerous Goods	Vol 2,13; Vol 5,18
Gladstone Regional Council	29	LNG Plant	Waste management	Vol 2,9; Vol 2,13; <b>Vol 5,17</b>
Gladstone Regional Council	29	LNG Plant	Wastewater	Vol 2,9; Vol 2,13; Vol 5,8; Vol 5,17
Gladstone Regional Council	29	LNG Plant	Weed Control	Vol 11
Gladstone Regional Council	29	LNG Plant	Mosquito Management	As per draft EIS
Gladstone Regional Council	29	LNG Plant	Noise	<b>Vol 5,13</b>
Gladstone Regional Council	29	LNG Plant	Public Access	Vol 2,13; <b>Vol 5,5</b> ; Vol 8,5; Vol 8,4
Gladstone Regional Council	29	LNG Plant	Energy / Climate Change and Sustainability	Vol 7
Gladstone Regional Council	29	LNG Plant	Project Commitments	Vol 5,5
Queensland Conservation Council	30	EIS General	EIS Review	<b>Vol 12</b>
Queensland Conservation Council	30	LNG Plant	Climate change and impact of greenhouse gas emissions	<b>Vol 7</b>
Queensland Conservation Council	30	LNG Plant	Terrestrial & marine ecology	<b>Vol 5,7</b> ; Vol 5,8; Vol 13
Queensland Conservation Council	30	LNG Plant	Bridge	<b>Vol 1,2</b> ; Vol 2,9
Queensland Conservation Council	30	LNG Plant	Dredging work impacts	Vol 2,14; <b>Vol 5,8</b> ; <b>Vol 6</b>
Queensland Conservation Council	30	LNG Plant/Shipping	Hazard & Risk	<b>Vol 5.18</b>
QRE	31	Pipeline Component	Route Selection and common user infrastructure	Vol 2,12; Vol 2,4
DERM	32	LNG Plant	Engineering Design of Material off loading facility	Vol 2,9
DERM	32	LNG Plant	Product off load construction details	<b>Vol 2,13</b>
DERM	32	LNG Plant	Bridge construction	<b>Vol 1,2</b> ; Vol 2,9
DERM	32	LNG Plant	LNG Facility including ancillary waste water treatment and water treatment infrastructure.	Vol 2,9

Submitter	Submission Number	Project Component	Environmental / Social Factors	sEIS Reference
DERM	32	Pipeline Component	Construction of gas transmission across ranges	Vol 2,12
DERM	32	CSG Field/Pipeline	Upstream infrastructure design	Vol 2,7
DERM	32	EIS General	Investigations	Any investigations as part this SEIS have been listed and summarized. Further investigations will be undertaken as required to support the approval processes.
DERM	32	EIS General	Mitigation measures	All mitigations are described in the appropriate Chapters for impact assessment
DERM	32	Whole of Project	Vegetation and Biodiversity Offsets	<b>Vol 3,7; Vol 4,7; Vol 5,7</b>
DERM	32	CSG Field/Pipeline	Environmental Authority	Vol 3,19
DERM	32	Whole of Project	Approvals	Vol 1,5; Vol 3,19
DERM	32	Whole of Project	Cultural Heritage	Vol 8,7
DERM	32	LNG Plant/Shipping/Pipeline	Dredging	<b>Vol 2,14; Vol 5,8; Vol 6</b>
DERM	32	CSG Field/Pipeline	Stock routes	<b>Vol 4,5</b>
DERM	32	Whole of Project	Cumulative impacts and co-location opportunities	<b>Vol 1,2</b>
DERM	32	Whole of Project	Legislation	Vol 1,5
DERM	32	Whole of Project	Planning Policies	Vol 1,5
DERM	32	Whole of Project	Nature Conservation Act 1992	<b>Vol 1,5; Vol 3,7</b>
DERM	32	Pipeline Component	Mitigation measures	<b>Vol 4,1</b>
DERM	32	Whole of Project	Fauna terminology	<b>Vol 3,7; Vol 3,8; Vol 4,7;</b> Vol 4,8; Vol 5,7; Vol 5.18
DERM	32	Whole of Project	Fauna impacts	<b>Vol 3,7; Vol 4,7;</b> Vol 5,7; Vol 5,8
DERM	32	CSG Field/Pipeline	Use of Evaporation Ponds	<b>Vol 2,7; Vol 2,11;</b> Vol 2,15; Vol 3,6; Vol 3,10
DERM	32	CSG Field/Pipeline	Construction of untreated water collection and storage ponds	<b>Vol 2,11;</b> Vol 3,6; <b>Vol 3,10</b>
DERM	32	CSG Field/Pipeline	Water supply, management and access to groundwater	<b>Vol 3,10</b>
DERM	32	CSG Field/Pipeline	Use of associated water for dust suppression.	Vol 2,11; <b>Vol 3,11</b>
DERM	32	Export Pipeline	Route Section (Narrows Crossing)	Vol 2,12
DERM	32	CSG Field/Pipeline	State Owned Quarry Materials	Vol 3,5
DERM	32	Pipeline Component	Volume 2, 12.3.4.1- Corridor Widths	<b>Vol 2,12</b>

Submitter	Submission Number	Project Component	Environmental / Social Factors	sEIS Reference
DERM	32	LNG Plant	Volume 2, 13.11.2 Indicative Construction Waste Amount	Vol 2,13
DERM	32	LNG Plant	Volume 2, 13.11.2 Indicative Construction Waste Amount and 9.11 Stormwater and Liquid Effluent Management including table 2.8.3	Vol 2,13
DERM	32	CSG Field	Associated Water Facilities	<b>Vol 2,7</b> ; Vol 3,6
DERM	32	CSG Field	Release of Salts during decommissioning	Vol 2,15; Vol 3,6
DERM	32	CSG Field	Decommissioning	Vol 2,15
DERM	32	CSG Field	Legislation	Vol 1,5
DERM	32	CSG Field	Land Contamination	<b>Vol 3,6</b>
DERM	32	Whole of Project	Constraint Mapping	<b>Vol 3,18</b>
DERM	32	CSG Field/Pipeline	Topsoil Management	Vol 3,4
DERM	32	Whole of Project	Environmental Sensitive Areas	<b>Vol 3,7</b>
DERM	32	CSG Field	Notifiable activities	Vol 3,6
DERM	32	Whole of Project	Clearing Activities	<b>Vol 3,7</b> ; Vol 4,7; Vol 5,7
DERM	32	CSG Field/Pipeline	Vegetation Management Act	<b>Vol 3,7</b>
DERM	32	CSG Field	Surface Water	<b>Vol 3,9</b>
DERM	32	CSG Field	Baseline water quality data of Lake Broadwater	Vol 3,9
DERM	32	CSG Field	AquaBAMM assessment of Condamine-Balonne	<b>Vol 3,9</b>
DERM	32	CSG Field	Macroinvertebrate data	<b>Vol 3,9</b>
DERM	32	CSG Field	Mitigation of potential Condamine alluvium water levels	<b>Vol 3,9</b>
DERM	32	CSG Field	Surface and Groundwater Monitoring	<b>Vol 3,9</b> ; <b>Vol 3,10</b>
DERM	32	CSG Field	Water Quality Improvement Devices	<b>Vol 3,9</b>
DERM	32	CSG Field	Water quality associated trigger values	<b>Vol 3,10</b>
DERM	32	CSG Field	Potential sources of leaks	Vol 2,7
DERM	32	CSG Field	Maintenance of ponds	Vol 2,7, Vol 3,6
DERM	32	CSG Field	Trigger values and other potential end users	<b>Vol 3,10</b>
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DERM	32	CSG Field	Disposal of associated water through tree cropping	Vol 2,7
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DERM	32	CSG Field	Aggregation	<b>Vol 3,11</b>
DERM	32	CSG Field	Construction of landfill	Vol 2,7; <b>Vol 3,6</b>

Submitter	Submission Number	Project Component	Environmental / Social Factors	sEIS Reference
DERM	32	CSG Field	Waste Disposal	<b>Vol 3,6; Vol 3,16</b>
DERM	32	CSG Field	Summary of cumulative environmental impacts	Vol 3,18
DERM	32	CSG Field	Landfill disposal of brine solids	<b>Vol 2,7; Vol 3,6</b>
DERM	32	CSG Field	Locations of compressor engines and emission rates	Vol 2,7; <b>Vol 3,12</b>
DERM	32	CSG Field	ERA 58 - EP Regulation 2008 / Schedule 5 of EP Act	<b>Vol 3,16</b>
DERM	32	CSG Field	Tree Cropping	Vol 2,7; <b>Vol 3,11</b>
DERM	32	CSG Field	Biodiversity	<b>Vol 3,7</b>
DERM	32	CSG Field	Noise Criteria	<b>Vol 3,13</b>
DERM	32	CSG Field	Gas Field Infrastructure	Vol 2,7, Vol 2,11
DERM	32	CSG Field	Petroleum activities	Vol 3,19
DERM	32	CSG Field	Stormwater Management	Vol 3,9; Vol 9
DERM	32	CSG Field	Waste Management	<b>Vol 3,16</b>
DERM	32	CSG Field	Sewerage	Vol 2,9, Vol 3,16
DERM	32	CSG Field	Drilling Muds	<b>Vol 3,6</b>
DERM	32	CSG Field	Fracturing	<b>Vol 3,6</b>
DERM	32	CSG Field	Gas Injection Activities	Vol 2,7; <b>Vol 2,11</b>
DERM	32	CSG Field	Cumulative impacts	<b>Vol 3,18</b>
DERM	32	Pipeline Component	Infrastructure aggregation opportunities - pipeline	Vol 2,12
DERM	32	CSG Field/Pipeline Component	Cumulative Impacts - Groundwater	Vol 3,10
DERM	32	CSG Field/Pipeline Component	Impacts on groundwater resource as a whole	<b>Vol 3,10</b>
DERM	32	CSG Field/Pipeline Component	Groundwater - predicted drawdown on existing bores.	<b>Vol 3,10</b>
DERM	32	CSG Field/Pipeline Component	Mitigation measures for associated water	Vol 3,11
DERM	32	CSG Field/Pipeline Component	Monitoring of gas field	<b>Vol 3,9; Vol 3,10; Vol 9</b>
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DERM	32	CSG Field	EPBC listed MNES listed springs.	<b>Vol 3,10</b>

Submitter	Submission Number	Project Component	Environmental / Social Factors	sEIS Reference
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DERM	32	Pipeline	GQAL Land	<b>Vol 4,4</b>
DERM	32	Pipeline	Minimisation of Potential Impacts	Vol 4,17
DERM	32	Pipeline	Pipeline decommissioning	<b>Vol 2,16</b>
DERM	32	Whole of Project	Timber salvaging	Vol 2,9; <b>Vol 4,5</b>
DERM	32	CSG Field/Pipeline	Construction description	Vol 2,11
DERM	32	CSG Field/Pipeline	Fauna and Flora	Vol 3,7; <b>Vol 4,7</b>
DERM	32	CSG Field/Pipeline	Reference sites for monitoring of fauna and flora impacts	Vol 3,7; Vol 4.7
DERM	32	CSG Field/Pipeline	Aquatic Ecology	<b>Vol 3,8; Vol 4,8</b>
DERM	32	CSG Field/Pipeline	Surface Water	<b>Vol 3,9; Vol 4,9</b>
DERM	32	CSG Field/Pipeline	Groundwater Environmental Values	<b>Vol 3,10</b>
DERM	32	LNG Component	Vegetation and biodiversity Offsets	<b>Vol 5,7</b>
DERM	32	LNG Component	Sewage and Sullage	<b>Vol 2,9; Vol 5,8</b>
DERM	32	LNG Component	Dredging / Marine Ecology	Vol 1,2; Vol 2,14; Vol 5,8; Vol 6
DERM	32	LNG Component	Diffuser Modelling	Vol 5,8
DERM	32	LNG Component	e-folding time	Vol 5,8; <b>Vol 5,11</b> ; Vol 6
DERM	32	LNG Component	Inter-tidal zone area impacted	Vol 5,8
DERM	32	LNG Component	Gas turbines and oil heaters	<b>Vol 5,12</b>
DERM	32	LNG Component	VOC emissions	<b>Vol 5,12</b>
DERM	32	LNG Component	Methane emissions from acid gas	<b>Vol 5,12</b>
DERM	32	LNG Component	Oil heater modelling	<b>Vol 5,12</b>
DERM	32	LNG Component	Levels of oxide emission from shipping operations.	<b>Vol 5,12</b>
DERM	32	LNG Component	Cloud cover data for CALMET	<b>Vol 5,12</b>
DERM	32	LNG Component	Ozone concentration levels	<b>Vol 5,12</b>
DERM	32	LNG Component	Noise and Vibration	<b>Vol 5,13; Vol 5,12</b>
DERM	32	LNG Component	Dust control and heavy demands	As per draft EIS
DERM	32	LNG Component	Construction description.	Vol 2,13
DERM	32	LNG Component	LNG Process Description	As per draft EIS
DERM	32	LNG Component	Waste Disposal	Vol 2,9; <b>Vol 5,17</b>
DERM	32	LNG Component	Dredging	<b>Vol 1,2</b> ; Vol 2,14; Vol 5,8; <b>Vol 6</b> ; Vol 13
DERM	32	LNG Component	Social Impact: Non-indigenous cultural heritage.	Vol 8.7

Submitter	Submission Number	Project Component	Environmental / Social Factors	sEIS Reference
DERM	32	LNG Component	Soils	<b>Vol 5,4</b>
DERM	32	LNG Component	ASS Investigation - Friend Point and Curtis Is	<b>Vol 5,4</b>
Queensland Police Services	33	Whole of Project	Workforce accommodation camps	Vol 2,13; Vol 2,6, Vol 8,4; <b>Vol 8,5</b> ; Vol 8,6
Queensland Police Services	33	Whole of Project	Traffic and Transport	Vol 3,14; Vol 4,13; Vol 5,14
Upper Dawson Branch WPSQ	34	CSG Field	Associated Water	<b>Vol 2,7; Vol 3,6; Vol 3,11</b>
Upper Dawson Branch WPSQ	34	CSG Field	Vegetation management	<b>Vol 3,7</b>
Upper Dawson Branch WPSQ	34	CSG Field/Pipeline	Cumulative impacts	<b>Vol 3,18</b> ; Vol 4,17
Upper Dawson Branch WPSQ	34	CSG Field/Pipeline	River crossing	Vol 2,12; Vol 4,9
Private Submission	35	CSG Field/Pipeline	Infrastructure on private land	Vol 2,7
Western Downs Regional Council	36	CSG Field/Pipeline	Traffic and Transport	<b>Vol 3,14; Vol 4,13</b>
Western Downs Regional Council	36	CSG Field/Pipeline	Water - reuse and construction options	<b>Vol 2,7; Vol 2,11</b>
Western Downs Regional Council	36	CSG Field/Pipeline	Groundwater impacts	<b>Vol 3,10</b>
Western Downs Regional Council	36	CSG Field/Pipeline	Impacts on local aerodromes	<b>Vol 3,5; Vol 3,14</b>
Western Downs Regional Council	36	CSG Field/Pipeline	Weed & Pest Management	<b>Vol 3,7</b> ; Vol 4,7
Western Downs Regional Council	36	CSG Field/Pipeline	Vegetation Clearing	<b>Vol 4,7</b>
Western Downs Regional Council	36	CSG Field/Pipeline	Local business engagement	<b>Vol 8,4</b>
Western Downs Regional Council	36	CSG Field/Pipeline	Works accommodation camps	Vol 2,11; <b>Vol 8,4</b>
Western Downs Regional Council	36	CSG Field/Pipeline	Waste management - transfer stations and landfills	<b>Vol 3,6; Vol 4,15</b>
Western Downs Regional Council	36	CSG Field/Pipeline	Social and community impacts (including health and housing)	<b>Vol 8,4</b> ; Vol 8,5
Western Downs Regional Council	36	CSG Field/Pipeline	Waste management and management of chemicals	Vol 3,6; <b>Vol 3,16; Vol 3,17</b>
Western Downs Regional Council	36	CSG Field/Pipeline	Impacts on climate change and greenhouse gases	<b>Vol 7</b>
Western Downs Regional Council	36	CSG Field/Pipeline	Water treatment	<b>Vol 3,11</b>
Western Downs Regional Council	36	CSG Field/Pipeline	Cumulative impacts	<b>Vol 3,18</b>
Santos	37	LNG Component	Cumulative impacts	<b>Vol 1,2</b>
Santos	37	LNG Component	Government Sponsored Joint Infrastructure	No comment
Santos	37	LNG Component	Joint funding of community infrastructure	No comment
Santos	37	LNG Component	No bridge option	<b>Vol 1,2; Vol 2,9</b>
Santos	37	LNG Component	Reclamation and dredging	<b>Vol 1,2</b> ; Vol 6
Santos	37	LNG Component	Pressure on Gladstone Community	Vol 8,5; Vol 8,6
Santos	37	LNG Component	LNG Jetty Location	Vol 2,9

Submitter	Submission Number	Project Component	Environmental / Social Factors	sEIS Reference
Santos	37	LNG Component	LNG Construction	<b>Vol 2,13</b>
Wildlife Preservation Society of Qld	38	Whole of Project	Cumulative impacts	Vol 3,18, Vol 4,7
Wildlife Preservation Society of Qld	38	CSG Field	Associated water management	<b>Vol 2,7</b>
Wildlife Preservation Society of Qld	38	Whole of Project	Benefits to the community	Vol 3,5
Wildlife Preservation Society of Qld	38	CSG Field	Lack of certainty in gas field infrastructure	Vol 2,7
Wildlife Preservation Society of Qld	38	Whole of Project	Terrestrial Ecology	Vol 5,7
Wildlife Preservation Society of Qld	38	Whole of Project	Marine ecology	Vol 3,8; Vol 4,8; Vol 5,8
Wildlife Preservation Society of Qld	38	LNG Plant / Pipeline Crossing/ Dredging	Marine ecology / dredging	<b>Vol 5,8; Vol 6</b>
Wildlife Preservation Society of Qld	38	LNG Plant / Pipeline Crossing/ Dredging	Shipping / vessel traffic	<b>Vol 5,8</b>
Wildlife Preservation Society of Qld	38	Whole of Project	Indigenous Cultural Heritage	Vol 8,7
Carbon Energy	39	Pipeline/Gas Field	Transport logistics / access	<b>Vol 3,14</b>
Carbon Energy	39	CSG Field	Groundwater Impacts	<b>Vol 3,10</b>
Carbon Energy	39	Pipeline Component	Consultation	<b>Vol 12</b>
Carbon Energy	39	Whole of Project	Collaboration with QGC	<b>Vol 8,6</b>
DEWHA	40	Whole of Project	Marine Ecology	<b>Vol 5,8; Vol 6; Vol 13</b>
DEWHA	40	Whole of Project	Terrestrial Ecology	Vol 13
DEWHA	40	Dredging	Land Reclamation / Dredging	<b>Vol 6</b>

## GLOSSARY OF TERMS AND ACRONYMS

Term/Acronym	Definition
%	per cent
°C	degrees Celsius
µg/m <sup>3</sup>	Microgram/cubic metre
µS cm <sup>-1</sup>	microsiemens per centimetre
2P	Proven and Probable
3P	Proved, Probable and Possible
AADT	Annual Average Daily Traffic
AAPA	Aboriginal Areas Protection Authority
AASS	actual acid sulfate soils
ABL	Assessment Background Level - a single figure background noise level for each assessment period (day, evening and night). It is the tenth percentile of the measured L <sub>90</sub> statistical noise levels.
ABS	Australian Bureau of Statistics
AC	alternating current
ACA	Aquatic Conservation Assessment
ACCC	Australian Agricultural College Corporation
ACF	Australian Conservation Foundation
<i>ACH Act (Qld)</i>	<i>Aboriginal Cultural Heritage Act 2003 (Qld)</i>
ACI	American Concrete Institute
ACMA	Australian Communications and Media Authority
ADG	Australian Dangerous Goods
ADWG	Australian Drinking Water Guidelines
AEP	annual exceedence probability
AETS	Australian Emissions Trading Scheme
AGE	Australasian Groundwater and Environmental Consultants Pty Ltd
AGO	Australian Greenhouse Office
AGRU	acid gas removal unit
AHD	Australian Height Datum
AHIMS	Aboriginal Heritage Information Management System
AHL	Aboriginal Hostels Limited
AHTS	anchor handling and tug supply
AIATSI	Australian Institute of Aboriginal and Torres Strait Islander Studies
AIC	Australian Institute of Criminology
AIHW	Australian Institute of Health & Welfare
AIS	Automatic Identification System
ALARP	as low as reasonably practicable
Allision	The impact of a moving vessel against a stationary object (e.g. jetties, fixed pipework, etc).
alluvium	unconsolidated material deposited in a fluvial system
ALOHA	Areal Locations of Hazardous Atmospheres
AMC	Australian Maritime College
AME	Asia and Middle East region
AMSA	Australian Maritime Safety Authority
ANZECC	Australia and New Zealand Environment and Conservation Council

Term/Acronym	Definition
ANZGFMWQ	Australia and New Zealand Guidelines for Fresh and Marine Water Quality
AP6	Asia Pacific Partnership on Clean Development and Climate (Australia, China, India, Japan, Republic of Korea and the United States)
APEC	Asia Pacific Economic Cooperation
API	American Petroleum Institute
APIA	Australian Pipeline Industry Association Ltd
APPEA	Australian Petroleum Production and Exploration Association
APZ	asset protection zone
AQF	Australian Qualification Framework
AQIS	Australian Quarantine Inspection Service
aquifer	any geological formation containing or conducting groundwater, especially one that supplies the water for wells, springs etc
aquitard	a zone within the earth that restricts the flow of groundwater from one aquifer to another
AQUABAMM	Aquatic Biodiversity Assessment and Mapping Methodology
ARI	Average Recurrence Interval
ARMCANZ	Agriculture and Resource Management Council of Australia and New Zealand
AS	Australian Standard
ASGC	Australian Standard Geography Classification
ASRIS	Australian Soil Resource Information System
ASS	acid sulfate soils
ASSC	Australian Safety and Compensation Council
ASSMP	acid sulfate soils management plan
Associated water	Underground water taken or interfered with during the course of, or results from, the carrying out of activities at a petroleum well. Also known as production water or formation water.
AST	aboveground storage tank
ASX	Australian Stock Exchange
ATP	Authority to Prospect
ATSB	Australian Transportation Safety Board
ATSI	Aboriginal and Torres Strait Islander
ATSIC	Aboriginal and Torres Strait Islander Commission
ATSIS	Aboriginal and Torres Strait Islander Services
atm	atmosphere
ATV	all-terrain vehicle
AWMP	Associated Water Management Plan
AWQG	Australian Water Quality Guidelines
AWRA	Australian Water Resources Assessment
BAL	Bushfire Attack Level
BAMM	Biodiversity Assessment and Mapping Methodology
BAT	best available technique
BBF	Building a Better Future: Indigenous Housing to 2010
BCA	Baseline Communities Assessment

Term/Acronym	Definition
BCJMY Group	a combined ILUA group, inclusive of Western Wakka Wakka, Barunggam, Yiman, Cobbe Cobbe and Jarowair, which are previous individual claimant groups
BCM	billion cubic meters
bd	business day
Bf	Beaufort (as in windscale)
BG	BG International Limited
bgl	below ground level
BH	Borehole
BHD	backhoe dredge
bhp	brake horsepower
Bioregion	a specific bio-geographic zone with a repeating or similar biotic (flora and fauna) and abiotic (soils, terrain, geography, climate and rainfall) factors
bkw	brake kilowatt
BLEVE	Boiling Liquid Expanding Vapour Explosion
BMRG	Burnett Mary Regional Group
BOD	biochemical oxygen demand
boed	barrels of oil equivalent per day
BoG	boil-off gas
BoM	Bureau of Meteorology
BOP	Blow out Preventer
BP	Tug Bollard Pull (in tonnes)
BPPH	Benthic Primary Producer Habitat
Bq	Becquerel defined as the amount of any radioisotope that produces 1 disintegration per second. $1 \text{ Bq} = .27 \times 10^{-11} \text{ Ci}$
BTEX	benzene, toluene, ethylbenzene and xylenes - volatile organic compounds found in petroleum derivatives
bund	raised bank around tanks and containers, designed to capture all contained liquids in a spill
CA	Condamine Alliance
CAC Act (Cth)	<i>Commonwealth Authorities and Companies Act 1997 (Cth)</i>
CaCO <sub>3</sub> /L	calcium carbonate per Litre
CAF	compressed asbestos fibre
CAMBA	China-Australia Migratory Bird Agreement
CASA	Civil Aviation Safety Authority
CATI	computer-assisted telephone interviewing
CAU	Cultural Advisory Unit
CBD	Central Business District
CBDROP	Condamine and Balonne Draft Resource Operations Plan
CBM	Depending on context this could be: 1. Conventional Buoy Mooring 2. Cool Bed Methane
CCC	Community Consultative Committee
CCHC	Community Child Health Centre
CCLO	Cross-Cultural Liaison Officer
CCMA	Condamine Catchment Management Association
CCR	Central Control Room
CCRCMP	Curtis Coast Regional Coastal Management Plan
CCS	carbon capture and storage

Term/Acronym	Definition
CCTV	closed circuit television
CDA	Central Development Area
CDEP	Community Development Employment Projects
CE	carbon efficiency
CEC	cation exchange capacity
CEMP	Construction Environmental Management Plan
CEO	Chief Executive Officer
CET	Clean Energy Target
CFC	chlorofluorocarbons
CG	Coordinator-General of the State of Queensland
CGC	Callide – Gladstone Corridor (now known as Callide Infrastructure Corridor State Development Area; CICSDA)
CGE	computational general equilibrium
CH <sub>4</sub>	Methane
CHCU	Cultural Heritage Coordination Unit
CHEM	Chemical Hazards and Emergency Management
CHMP	Cultural Heritage Management Plan
CHMS	Cultural Heritage Management Strategy
CICSDA	Callide Infrastructure Corridor State Development Area (previously known as CGC)
CIIP	Curtis Island Industry Precinct
CINICH	Curtis Island Non-Indigenous Cultural Heritage
CLR	Contaminated Land Register
CM	coal measures
CMD	Coastal Management District
CMIT	CSIRO Manufacturing and Infrastructure Technology
CNOOC	China National Offshore Oil Corporation
CO	carbon monoxide
CO <sub>2</sub>	carbon dioxide
CO <sub>2-e</sub>	carbon dioxide equivalent - refers to the global warming potential of a gas relative to carbon dioxide
COAG	Council of Australian Governments
colluvium	loose earth material that has accumulated at the base of a hill, through the action of gravity
COLREGS	International Regulations for Preventing Collisions at Sea 1972
COMAH	Control of Major Accident Hazards (UK)
common user infrastructure	infrastructure such as the bridge and road to Curtis Island and other facilities within the proposed extension to the Gladstone State Development Area to be developed by the State.
controlled action	actions deemed likely to have a significant impact on Matters of National Environmental Significance under the terms of the <i>EPBC Act</i> .
CP	cathodic protection
CPI	corrugated plate interceptor
CPP	Central Processing Plant - receives gas from the Field Compression Stations and dries and pressurizes the gas to its export pressure
CPS	Condamine Power Station
CPRS	Carbon Pollution Reduction Scheme

Term/Acronym	Definition
CQ AIICCA	Central Queensland Aboriginal and Islanders Child Care Agency
CQANM	Central Queensland - A New Millennium, 2002
CQPA	Central Queensland Ports Authority (now Gladstone Ports Corporation)
CQRGMF	Central Queensland Regional Growth Management Framework
CQSS2	Central Queensland Strategy for Sustainability – 2004 and Beyond
CQU	Central Queensland University
CRA	Commonwealth Rent Assistance
CRC	Cooperative Research Centre
critically endangered species or ecological community	a listed threatened species and ecological community is categorised as critically endangered in terms of the <i>EPBC Act</i> (Cth) if, at that time, it is facing an extremely high risk of extinction in the wild in the immediate future
cross-governmental	involving Commonwealth, State and Local Government
CSC	former Calliope Shire Council
CSD	cutter suction dredge
CSG	coal seam gas, also known as coal seam methane or coal bed methane
CSIRO	Commonwealth Scientific and Industrial Research Organisation
CSU	community safety unit
Cth	Commonwealth
CUI	common user infrastructure
CBWC	Condamine Balonne Water Committee
DAE	dilute acid extraction
DAF	dissolved air floatation
dB(A)	Noise is measured in units called decibels (dB). There are several scales for describing noise, the most common being the 'A-weighted' scale. This attempts to closely approximate the frequency response of the human ear.
DCDB	Digital Cadastre Database
DCS	Depending on the context this could be: 1. Distributed Control System 2. Department of Community Services
DDMRB	Darling Downs-Moreton Rabbit Board
DEEDI	Department of Employment, Economic Development and Innovation
DERM	Department of Environment and Resources Management (Qld) – previously EPA
DES	Department of Emergency Services (Qld)
DETA	Department of Education, Training and the Arts (Qld)
developer	Person responsible for developing an infrastructure (other than the Proponent)
DEWHA	Department of Environment, Water, Heritage and the Arts (Cth)
DFDE	duel fuel diesel electric
DGA	diglycolamine
DGL	dangerous goods location
DGP	Divisions of General Practice

Term/Acronym	Definition
DGSMA	<i>Dangerous Goods Safety Management Act 2001</i>
DIP	Department of Infrastructure and Planning (Qld)
DIPNR	Department of Infrastructure, Planning and Natural Resources (NSW)
DIWA	Directory of Important Wetlands (Australia)
DJSI	Dow Jones Sustainability Index
DLE	dry low emissions
DLGSR	former Department of Local Government, Sport and Recreation (Qld)
DMDRP	former Department of Local Government, Sport and Recreation (Qld)
DME	Depending on the context this could be: 1. dimethyl ether 2. Department of Mines and Energy (Qld)
DMR	Department of Main Roads (Qld)
DNRW	Department of Natural Resources and Water (Qld) - now falls under the responsibility of the Department of Environment and Resource Management (DERM)
DO	dissolved oxygen
DOGIT	Deed of Grant in Trust
DOS	degree of separation
DoTARS	Department of Transport and Regional Services (Cth)
DP	Deposited Plan
DPA	Dugong Protection Area
DPI&F	Department of Primary Industry and Fisheries (Qld) (now the Department of Employment, Economic Development and Innovation)
draft EIS	draft environmental impact statement as per Section 101a of the EPBC Act, 1999 (EIS under Queensland SDPWO Act 1971)
DRG	Diagnosis Related Group
Drill cuttings	Any material (typically called solids) removed from a borehole while drilling petroleum wells.
DSA	design storage allowance
DSDTI	Department of State Development, Trade and Innovation (Cth)
DTM	Digital Terrain Model
DTMR	Department of Transport and Main Roads
DTRDI	Department of Tourism, Regional Development and Industry (Qld) - now falls under the responsibility of the Department of Employment, Economic Development and Innovation (DEEDI)
DUAP	Department of Urban Affairs and Planning (Qld)
Duricrusts	A thin hardened layer of soil on the surface or near the surface of the Earth which has formed due to accumulation of soluble minerals such as Silica, Alumina or Iron.
DWDM	dense wave division multiplexer
DWT	deadweight tonnes
e.g.	Example
EA	environmental authority issued in terms of the <i>Environment Protection Act 1994</i> (Qld)

Term/Acronym	Definition
E&A	exploration and appraisal
EAA	East Asian Australasian
EC	electrical conductivity – a measure of the mineral salt content of water
Ecotone	A transition area between two different plant communities (e.g. forests and grassland). These areas often contain species that are not found in the two overlapping communities.
EDRPAC	Eastern Downs Regional Planning Advisory Committee
EEC	endangered ecological community
Eh	redox potential
EHS	Environmental, Health and Safety (Guidelines)
EIA	Environmental Impact Assessment. EIA refers to the assessment process i.e. the term is to be used as a verb.
EIS	Environmental Impact Statement, as defined by Part 4 of the <i>SDPWO Act (Qld)</i> – EIS refers to the process as well as the EIS report.
EMA	Energy Market Authority
EMP	Depending on the context this could be: 1. Environmental Management Plan 2. Environmental Management Precinct
EMQ	Emergency Management Queensland
EMR	Environmental Management Register maintained by DERM (Qld)
EMS	Environmental Management System
endangered RE	endangered regional ecosystem as defined in terms of the <i>VM Act (Qld)</i>
endangered species or ecological community	a listed threatened species or ecological community is categorised as endangered in terms of the <i>EPBC Act (Cth)</i> if, at that time it is not critically endangered and is facing a very high risk of extinction in the wild in the near future.
ENM	Environmental Noise Model – noise modelling program
ENVID	environmental hazard identification
Environmental Offset	action taken to counter-balance any unavoidable negative impacts that might result from an activity or a development.
EP	equivalent persons
<i>EP Act (Qld)</i>	<i>Environment Protection Act 1994 (Qld)</i>
EPA	Environmental Protection Agency (Qld) - now falls under the responsibility of the Department of Environment and Resource Management (DERM)
<i>EPBC Act (Cth)</i>	<i>Environment Protection and Biodiversity Conservation Act 1999 (and as subsequently amended) (Cth)</i>
EPC	Engineering, Procurement and Construction
EPFI	Equator Principle Financial Institution
ephemeral	a freshwater channel that flows only periodically e.g. does not flow during dry seasons
EPP	Environmental Protection Policy
EPPA	Environmental Property Protection Association
ERA	Environmentally Relevant Activity
ERFA	Eastern Red Fire Ant
ERM	Environmental Resources Management (Australia) Pty Ltd
ERP	Emergency Response Plan

Term/Acronym	Definition
ES&H	Environment, Safety and Health
ESA	Depending on the context this could be: 1. Environmental Site Assessment 2. Environmentally Sensitive Area 3. equivalent standard axles
ESC	erosion soil control
ESD	Depending on the context this could be: 1. Ecologically Sustainable Development 2. emergency shut down (valve or system)
ESE	east-south-easterly
ESIA	Environmental and Social Impact Assessment. ESIA refers to the assessment process i.e. the term is to be used as a verb
ESP	exchangeable sodium percentage – the proportion of sodium adsorbed onto a material surface as a proportion of the total cation exchange capacity
EV	environmental values
EVR	endangered, vulnerable or rare
FaHCSIA	Department of Families, Housing, Community Services and Indigenous Affairs (Cth)
FAR	field auxiliary room
FBBP	Fitzroy Basin Biodiversity Plan
FCS	The Field Compression Station removes free water from the raw gas and undertakes the initial compression of gas in order for this to be piped to the Central Processing Plant for further processing.
FEED	Front-End Engineering and Design
FEL	front end loading
FGS	Fire and Gas System
FHA	Fish Habitat Area
FIFO	fly-in fly-out
Final EIS	The combination of the draft EIS and the Supplementary EIS constitutes a Final EIS for the purposes of Section 104 of the EPBC Act, 1999
FIT	Formation Integrity Test
Flash Fire	The combustion of a flammable vapour and air mixture in which the flame front passes through the mixture at less than sonic velocity, such that a negligible damaging overpressure is generated.
FLNE	Fisherman's Landing Northern Expansion
FMO	Finance Minister's Orders
FNM	field non-manual
FONSI	Finding of No Significance
FPQ	Forestry Plantations Queensland
FPZ	fire-proofing zone
FTE	full-time equivalent
GAB	Great Artesian Basin
GABROP	Great Artesian Basin Resource Operations Plan
GAMSET	Gladstone Area Maths, Science and Engineering Teachers
GAMsv3	Gladstone Airshed Monitoring System (Version 3)
GAPDL	Gladstone Area Promotion and Development Ltd
GARID	Guidelines for Assessment of Road Impacts of Developments

Term/Acronym	Definition
Gas Pipeline Network	Export Pipeline, Collection Header, Collection Lateral and Trunklines
GAWB	Gladstone Area Water Board
GBR	Great Barrier Reef
GBRCMP	Great Barrier Reef Coast Marine Park (Qld)
GBRMP	Great Barrier Reef Marine Park (Cth)
GBRMPA	Great Barrier Reef Marine Park Authority (Cth)
GBRNHA	Great Barrier Reef National Heritage Area
GBRWHA	Great Barrier Reef World Heritage Area
GCL	geotextile clay liner
GDP	gross domestic product
GDE	GDE groundwater dependent ecosystems
GEIDB	Gladstone Economic and Industry Development Board
GFNICH	Gas Field Non-Indigenous Cultural Heritage
GHG	greenhouse gas
GHGMP	Greenhouse Gas Management Plan
GICC	Government Indigenous Coordination Centre
GIIP	Good International Industry Practice
GIRTP	Gladstone Integrated Regional Transport Plan 2001 – 2030
GIS	Geographic Information System
GJ	gigajoule
glc	ground level concentration
GLNG	Gladstone LNG Project (i.e. Santos Project)
GLPRRI	Gladstone Land Port Rail Road Infrastructure
GLS	Global LNG Shipping
GM	genetically modified
GP	General Practice/ Practitioner
GPC	Gladstone Ports Corporation (formerly Central Queensland Ports Authority)
GNL	Gladstone Pacific Nickel Limited
GPS	Global Positioning System
GQAL	Good Quality Agricultural Land (defined in State Planning Policy 1/92: Development and the Conservation of Agricultural Land)
GR	grid reference
GRC	Gladstone Regional Council
GRP	gross regional product
GSDA	Gladstone State Development Area
GSHAP	Global Seismic Hazard Assessment Program
GSP	gross state product
GST	goods and services tax
GTG	gas turbine generator
GTL	gas-to-liquid
GTT	Gaz Transport and TechniGaz
GVTS	Gladstone Vessel Traffic Service
GWIS	Groundwater Impact Study
GWMP	Groundwater Monitoring Management Plan
GWP	global warming potential
GWTP	Gladstone Water Treatment Plant

Term/Acronym	Definition
H <sub>2</sub> S	hydrogen sulfide
ha	hectares (10 000 m <sup>2</sup> )
HACC	Home and Community Care
HAT	highest astronomical tide
HAZID	Hazard Identification
HAZOP	Hazard and Operability
HBT	Hollow bearing trees
HDD	horizontal directional drilling
HDPE	high-density polyethylene
HERBRECS	Queensland Herbarium database
HFC	hydro fluorocarbons
HFO	heavy fuel oil
HHV	high heating value
HIA	Housing Industry Association
HICB	Hazardous Industries and Chemical Branch
HIL	Health Based Investigation Level (ANZECC site contamination standard)
HIPAP	Hazardous Industry Planning Advisory Paper
HP	horse power
HPV	high point vent
HPZ	Habitat Protection Zones
Hs	heights
HSA	Health Service Area
HSD	Health Service District
HSE	Health, Safety and Environment
HSEQ	Health, Safety, Environment and Quality
HSSE	Health, Safety, Security and Environment
HVAC	heating, ventilating and air conditioning
Hz	hertz
IAC	inlet air chilling
IAS	Initial Advice Statement (as defined by part 4 of the <i>SDPWO Act</i> ) (Qld)
ICC	Indigenous Coordination Centres
ICHA	Initial Cultural Heritage Assessment
ICN	Industry Capability Network (Australian and New Zealand)
ICOMOS	Australian International Council on Monuments and Sites
ICSS	Integrated Control and Safety System
IDAS	Integrated Development Assessment System
IEC	International Electrotechnical Commission
IEP	Indigenous Employment Program
IFC	International Finance Corporation
IFD	intensity frequency duration
IGC	International Gas Code - International Maritime Organization's (IMO) <i>International Code for the Construction and Equipment of Ships Carrying Liquefied Gases in Bulk</i>
ILUA	Indigenous Land Use Agreement
IMCA	International Maritime Contractors Association
IMO	International Maritime Organization
INA	International Navigation Association

Term/Acronym	Definition
intertidal	the coastal zone between the high tide mark and low tide mark
<i>IPA</i> (Qld)	<i>Integrated Planning Act 1997</i> (Qld)
IPCC	Intergovernmental Panel on Climate Change
IPWEA	Institute of Public Works Engineering Australia
Ir	Iridium
IROL	Interim Resource Operations Licence
ISIR	Individual-Specific Individual (Fatality) Risk. Also referred to as Individual Risk per Annum (IRPA)
ISM code	International Safety Management Code for the Safe Operation of Ships
ISO	International Standards Organisation
ISRP	Indigenous Sport and Recreation Program
IUCN	International Union for Conservation of Nature
IYEC	Indigenous Young Employment Program
JAMBA	Japan-Australia Migratory Bird Agreement
Jet Fire	The combustion of a material emerging with high momentum from an orifice.
JSA/ JHA	Job Safety Analysis/Job Hazard Analysis
JSEA	Job Safety and Environmental Analysis
Jump up	an upthrow or down throw fault that leads to the slight elevation of the Earth's surface.
k	hydraulic conductivity
kBq	kilobecquerel
KCl	potassium chloride
KCS	key coastal sites
kHz	kilohertz
km	kilometre
km <sup>2</sup>	square kilometres
KP	kilometre point
kPa	kilopascal
kPag	kilopascal gauge
kph	kilometres per hour
KRA	Key Resource Area
kV	kilovolts
kW	kilowatt
L s <sup>-1</sup>	litres per second
L <sub>1</sub>	the noise level exceeded for 1 % of a measurement period
L <sub>10</sub>	a noise level which is exceeded 10% of the time - it is approximately equivalent to the average of maximum noise levels
L <sub>90</sub>	commonly referred to as the background noise, this is the level exceeded 90% of the time
lacustrine	Lacustrine wetlands are large, open, water-dominated systems (for example, lakes) larger than eight hectares. This definition also applies to modified systems (for example, dams), which possess characteristics similar to lacustrine systems (for example, deep, standing or slow-moving waters).
LAN	local area network
LAT	lowest astronomical tide

Term/Acronym	Definition
LCA	Lifecycle Assessment
LCZ	landscape character zone
LDGL	Large Dangerous Goods Location
LEL	lower exposure limit
$L_{eq}$	the summation of noise over a selected period of time - it is the energy average noise from a source, and is the equivalent continuous SPL over a given period
LFL	Lower Flammable Limit - The minimum quantity of flammable gas (usually expressed as % by volume) which when mixed with air will support combustion. For methane-air mixtures, the LFL is 5% by volume, and for propane-air mixtures, the LFL is 2% by volume.
LG	local government
LGA	local government area
LIMP	Local Incident Management Plan
LIMT	local incident management team
$L_{max}$	the maximum root mean squared SPL received at the microphone during a measuring interval
LNG	liquefied natural gas
LNG Facility	the LNG component of the Project, inclusive of the LNG Plant, marine facilities, storage tanks etc
LNG Plant	LNG processing plant proper i.e. part of the broader LNG Facility
LNG Terminal	jetty and associated marine infrastructure
LNGC	Liquefied Natural Gas Carrier
LOR	limits of reporting
LOS	level of service
LOTE	Language other than English
LPD	low point drain
LPDS	low point drain sumps
LPG	liquefied petroleum gas
LRAM	Land Resource Assessment Management Pty Ltd
LVIA	Landscape and Visual Impact Assessment
m	metres
m/s	metres per second
$m^3$	cubic metre
MAE	Major Accident Event
MAOP	maximum allowable operating pressure
MARPOL 73/78	International Convention for the Prevention of Pollution from Ships (1973 and 1978 protocols)
MARVS	maximum allowable relief valve settings
max	maximum
mbgl	metres below ground level
MBq	MBq megabecquerel
mmscf	million standard cubic feet
MCATSIA	Ministerial Council on Aboriginal and Torres Strait Islander Affairs (Cth)
MCC	master control centre
MDL	mineral development lease
MEDLI	model for effluent disposal using land irrigation

Term/Acronym	Definition
mg/L	milligrams per litre
ug	microgram
µg/L	micrograms per litre
MHF	Major Hazard Facility
MHWS	mean high water spring
MIC	maximum instantaneous charge
ML	Depending on the context this could be: 1. mega litre (1 000 000 L) 2. local (richter) magnitude
MLA	mining lease application
MLV	mainline valve
mm	millimetres
µm	micron (millionth of a metre)
mbgl	metres below ground level
mmbtu	million metric british thermal units
MNES	Matters of National Environmental Significance protected by Part 3 of the <i>Environment Protection and Biodiversity Conservation Act 1999</i> (Cth)
MOF	Materials Offloading Facility
Mpa	megapascal
MPI	Maximum Potential Intensity
<i>MR Act</i>	<i>Minerals Resources Act 1989 (Qld)</i>
MRF	Material Recovery Facility
MRL	mandatory reporting level
MRV	main range volcanics
MSDS	Material Safety Data Sheet
MSQ	Maritime Safety Queensland (Qld)
mtpa	million tonnes per annum
MUTCD	<i>Manual of uniform traffic control devices</i>
MVA	mega volt amperes
MVC	mechanical vapour compression evaporator
MW	megawatt
N	nitrogen
N <sub>2</sub> O	nitrous oxide
Na <sub>2</sub> Cl	sodium chloride
NACC	National Aboriginal Consultative Committee
NAGD	Depending on the context this could be either: 1. National Assessment Guidelines for Dredging 2. National Ocean Disposal Guidelines for Dredged Material
NAL	noise assessment location
NATA	National Association of Testing Authorities
NBRC	North Burnett Regional Council
<i>NC Act (Qld)</i>	<i>Nature Conservation Act 1992 (Qld)</i>
NCB	North China Bay
NDI	non-destructive inspection
NEPM	National Environment Protection Measure
NES	Depending on the context this could be: 1. National Environment Significance 2. National Exposure Standards
NF	nanofiltration

Term/Acronym	Definition
NFPA	National Fire Protection Agency (United States)
NGERS	National Greenhouse and Energy Reporting System
NGGI	National Greenhouse Gas Inventory
NHA	National Heritage Area
NHMRC	National Health and Medical Research Council
NICP	National Indigenous Cadetship Program
NIMPIS	National Introduced Marine Pest Information System
NMNEHC	non methane non ethane hydrocarbons
Nm <sup>3</sup>	normal cubic metre
NNTT	National Native Title Tribunal
NODGDM	National Ocean Disposal Guidelines for Dredged Material
NOHSC	National Exposure Standards for Atmospheric Contaminants
not of concern RE	not of concern regional ecosystem as defined in terms of the VMA (Qld) Note that since the release of the draft EIS the terminology 'Not Of Concern' has been replaced with the term 'Least Concern'. To maintain consistency with the draft EIS the term 'Not of Concern' has continued to be used for the purposes of the supplementary EIS.
NOx	oxides of nitrogen
NPI	National Pollutant Inventory
NRAS	National Rental Affordability Scheme
NRM	National Resource Management Plan
NRU	nitrogen rejection unit
NSW DECC	NSW Department of Environment and Climate Change
NTRB	Native Title Representative Body
NTU	nephelometric turbidity units
NWDA	North West Development Area
NWI	National Water Initiative
NWQMS	National Water Quality Management Strategy
NZS	New Zealand Standard
OBE	operational basis earthquake
OC	organic chlorinated (pesticides)
OCIMF	Oil Companies International Maritime Forum
OEMP	Operational Environmental Management Plan
of concern RE	of concern regional ecosystem as defined in terms of the VM Act (Qld)
OGP	International Association of Oil & Gas Producers
OLS	obstacle limitation surface
OP	organic phosphorated (pesticides)
OPE	Operating Basis Earthquake
Overpressure	For a pressure pulse (blast wave), the pressure developed above atmospheric pressure.
OWL	operating water level
OWS	oil-water separators
<i>P&amp;G Act (Qld)</i>	<i>Petroleum and Gas (Production and Safety) Act 2004 (Qld)</i>
P&ID	process and instrumentation diagrams
pa	per annum
PA	public address system
PAH	polycyclic aromatic hydrocarbon

Term/Acronym	Definition
palustrine	Palustrine wetlands are primarily vegetated non-channel environments of less than eight hectares. They include billabongs, swamps, bogs, springs, soaks etc, and have more than 30 per cent emergent vegetation.
PANS-OPS	Procedures for Air Navigation Safety – Aircraft Operations
PASS	potential acid sulfate soils
PCA	Potential Commercial Area
PCB	polychlorinated biphenyls
PCCC	Port Curtis Coral Coast
PCCC Group	an amalgamated claim of previously registered Indigenous claims, being Gooreng Gooreng, Bailai, Taribelung Bunda and Gurang
PCDP	Public Consultation and Disclosure Plan
PCIMP	Port Curtis Integrated Monitoring Program
PCS	Process Control Systems
PCU	passenger car equivalents
PCYC	Police Citizens Youth Club
PEI	Public Estate Improvement
PES	potential explosion site
PFL	petroleum facility licence
PG	Packing Group
PGA	peak ground acceleration
PHA	Preliminary Hazard Assessment
PHIDU	Population Health Information Development Unit
PIANC	Permanent Association of Navigation Congresses
PIDS	perimeter intruder detection system
PIFU	Planning Information and Forecasting Unit
PJ	petajoules
PL	petroleum lease
PLA	petroleum lease application
PLB	Pond Log Book
PLNICH	Pipeline Non-Indigenous Cultural Heritage
PM <sub>10</sub>	particulate matter less than 10 microns in diameter
PM <sub>2.5</sub>	particulate matter less than 2.5 microns in diameter
Pool Fire	The combustion of material evaporating from a layer of liquid at the base of the fire.
POP	Pond Operational Plan
PPE	personal protective equipment
PPL	petroleum pipeline licence
ppm	parts per million
ppv	peak particle velocity - the maximum velocity of a particle of the transmission medium, used in assessment of vibration
Project	the Queensland Curtis LNG Project
Proponent	QGC Limited – A BG Group Business
PSHA	probabilistic seismic hazard analysis
PSI	per square inch
PSL	petroleum survey licence
PSSA	Particularly Sensitive Sea Area
Q Max	tanker size for a new class of LNG vessels
QA	Quality Assurance

Term/Acronym	Definition
QAL	Queensland Alumina Limited
QAS	Depending on the context this could be: 1. Queensland Ambulance Service 2. Quality Assurance System
QASSIT	Queensland Acid Sulfate Soils Investigation Team
QC	quality control
QCLNG Project	Queensland Curtis LNG Project
QCOSS	Queensland Council of Social Service Inc
QCWA	Queensland Country Women's Association
QERL	Queensland Energy Resources
QF	Q-Flex
QFRS	Queensland Fire and Rescue Service
QGC	A BG Group Business. The QCLNG Project Proponent.
QGCL	Queensland Gas Company Limited
QGEOP	Queensland Government Environmental Offsets Policy
QH	Queensland Health
QHC	Queensland Heritage Council
QHR	Queensland Heritage Register
Qld	Queensland
QMDC	Queensland Murray Darling Committee
QPS	Queensland Police Service
QPWS	Queensland Parks and Wildlife Service
QR	Queensland Rail
QRA	Quantitative Risk Assessment
QRFS	Queensland Rural Fire Service
QSNTS	Queensland South Native Title Service
QUAKES	Queensland University Advanced Centre for Earthquake Studies
QUDM	Queensland Urban Drainage Manual
Queensland Bilateral Agreement	An agreement between the Australian Government and the State of Queensland under section 45 of the <i>EPBC Act (Cth)</i> relating to environmental assessment.
QWQG	Queensland Water Quality Guidelines
RA	Radioactive
Ramsar wetland	A wetland listed under <i>The Convention on Wetlands (1975)</i> an intergovernmental treaty which provides the framework for national action and international cooperation for the conservation of wetlands.
RBL	Rating Background Level - an overall single figure background noise level representing each assessment period over the whole monitoring period. The RBL is used to determine the intrusiveness criteria for noise assessment purposes and is the median of the ABL's.
RBP	Roma to Brisbane Pipeline
RCMP	Regional Coastal Management Plan
<i>RD Act</i>	<i>Racial Discrimination Act 1975 (Cth)</i>
RE	regional ecosystems
regasification	The process by which LNG is heated, converting it into its gaseous state

Term/Acronym	Definition
regional ecosystems	defined in terms of the VMA (Qld) as vegetation communities that are consistently associated with a particular combination of geology, landform and soil. In Queensland, regional ecosystems are being used increasingly for detailed nature conservation planning, as a surrogate for biodiversity.
RGMF	Regional Growth Management Framework
RGTCT	RG Tanna Coal Terminal
RIA	Road Impact Assessment
RIAR	Regional Indigenous Australian Reference Group
RL	relative level (compared to AHD)
RNE	Register of the National Estate
RO	reverse osmosis
ROKAMBA	Republic of Korea-Australia Migratory Bird Agreement
ROTAP	rare or threatened Australian plants
ROW	Right-of-Way
RPT	Depending on the context this could be: 1. rapid phase transition 2. regular public transport
RRC	Roma Regional Council
SAA	Standards Australia Association
SAAP	Supported Accommodation Assistance Program
Santos	Santos Ltd
SAP	sampling analysis plan
SAR	sodium adsorption ratio - measure of the proportion of sodium to magnesium and calcium in water
Sb	Antimony
Sc	Scandium
SBMP	SBMP Site Based Management Plan
SCADA	supervisory control and data acquisition
SCMP	State Coastal Management Plan
SCR	state-controlled roads
SD	Statistical Division
SDD Project	Port of Gladstone Western Basin Strategic Dredging and Disposal Project
SDPWO Act (Qld)	<i>State Development and Public Works Organisation Act 1971 (Qld)</i>
SEDA	South East Development Area
SEIFA	Socio-Economic Indices for Areas
sEIS	Supplementary Environmental Impact Statement , document prepared in response to public review of draft EIS (The draft EIS in conjunction with the Supplementary EIS constitutes a Final EIS for the purposes of Section 104 of the EPBC Act, 1999)
Semi-evergreen	plants that drop their leaves in response to special or unusual environmental conditions.
SEMP	Social Environment Management Plan
sensitive receptor	potentially sensitive place, in particular, any place of work, residence, recreation, education or worship at which noise, vibration and/or air emissions from the Project could reach and/ or visual elements of the Project can be seen.
SEP	stakeholder engagement plan

Term/Acronym	Definition
SEPP	State Environment Protection Policy (Vic)
SES	State Emergency Service
SEVT	Semi-Evergreen Vine Thicket
SHB	Split Hopper Barge
SHS	State High School
SIA	Social Impact Assessment
SIAR	State Indigenous Australian Reference Group
significant project	a project declared by the Coordinator-General as a significant project requires an Environmental Impact Statement (EIS) in accordance with Part 4 of the <i>State Development and Public Works Organisation Act 1971</i> (Qld)
SIGTTO	Society of International Gas Tanker and Terminal Operators
SIL	Safety integrity level
SIMOPS	Simultaneous Operations
SIMP	Social Impact Management Plan
SIRE	Ship Inspection Report Programme
SIS	Safety Instrumented System
SLA	Statistical Local Area
SMS	Safety Management System
SNAICC	Secretariat of National Aboriginal and Islander Child Care
SO <sub>2</sub>	sulphur dioxide
SOLAS	International Convention for the Safety of Life at Sea 1974
SOPEP	Ship Board Pollution Emergency Plan
SOW	scope of work
SO <sub>x</sub>	oxides of sulphur
SPL	Sound Pressure Level - the level of sound pressure, expressed in decibels, as measured by a standard sound level meter with a microphone. This differs from SWL in that this is the received sound as opposed to the sound 'intensity.'
SPMT	self propelled mobile transporters
SPOCAS	Suspended Peroxide Oxidation Combined Acidity and Sulfate
SPOP	Standard Pond Operating Procedures
SPOS	Peroxide Oxidisable Sulfur
SPP	State Planning Policy
SPP 1/03	State Planning Policy 1/03 Mitigating the Adverse Impacts of Road, Bushfire and Landslide (Qld)
SRA	Shared Responsibility Agreements
SS	socioeconomic status
SSE	Safe Shutdown Earthquake
stakeholder	any individual, group or organisation (government or non-government) with a legitimate interest in, or who may be affected by, the Project.
STARRT	safety task and risk reduction talk
STD	sexually transmitted disease
STEP	Structured Training and Employment Projects
STEL	short term exposure limits
STP	sewage treatment plant

Term/Acronym	Definition
SWL	Sound Power Level - a measure of the total power radiated by a source. The Sound Power of a source is a fundamental property of the source and is independent of the surrounding environment.
SWMA	Surface Water Management Areas
SWMP	Surface Water Monitoring Plan
SWMP	Stormwater Management Plan
t	tonnes
TAFE	Technical and Further Education Institution
TAL	tonnes axle loading
TAPL	The Air Pollution Model
Taxon (plural taxa)	Any group or rank in a biological classification into which related organisms are classified (e.g. phylum, order, family, genus or species)
TBT	tributyltin - an organotin compound and the main chemical component of anti-fouling paints)
tbtu	trillion British thermal unit – gas measurement
TCEQ	Texas Commission on Environmental Quality
tCO <sub>2</sub> e/annum	tonnes of carbon dioxide equivalents per annum
TDS	total dissolved solids
TE	thermal energy efficiency
TEC	threshold electrolyte concentration
TED	turtle excluding device
TEEL	Temporary Emergency Exposure Limits
TEG	tri-ethylene glycol
temperature inversion	a positive temperature gradient - a meteorological condition where atmospheric temperature increases with altitude to some height
TJ	Terajoules
TLP	tempered liquid petroleum gas
TMP	Traffic Management Plans
TMSA	Tanker Management and Self Assessment (program prescribed by OCIMF)
TO	traditional owner
TOC	Total Organic Compound
TOMPA	<i>Transport Operations (Marine Pollution) Act 1995 (Qld)</i>
TOR	Terms of Reference (as defined by part 4 of the <i>SDPWO Act</i> )
TP	spectral peak period
tpa	tonnes per annum
TPH	total petroleum hydrocarbons
TSHD	trailer suction hopper dredge
TSM	total suspended matter
TSP	total suspended particulates
TSS	total suspended solids
TWAES	time weighted average exposure limits
two-way movements	return trip of a vehicle
UCG	underground coal gasification
UCL	Upper Confidence Limits
UCS	unconfined compressive strength
UHF	Ultra High Frequency

Term/Acronym	Definition
UIC	Upstream Infrastructure Corridor
UK	United Kingdom
UNCLOS	United National Convention on the Law of the Sea 1982
UNFCCC	United Nations Framework Convention on Climate Change
UPS	Uninterruptible power supply
UQ	University of Queensland
us/cm	microsiemens per centimetre
USEPA	United States Environmental Protection Authority
USQ	University of Southern Queensland
UTM	universal transverse mercator
UV	ultra violet
UWIR	Underground Water Impact Report
UXO	unexploded ordnance
VAF	Value Assurance Framework
VCE	Vapour Cloud Explosion
VDU	visual display unit
VET	vocational education and training
VHF	Very High Frequency
VLRA	valve regulated lead acid
VM Act (Qld)	<i>Vegetation Management Act 1999 (Qld)</i>
VOC	volatile organic compound
vpd	volume per day
VTS	Vessel Traffic Service
vulnerable species or ecological community	listed threatened species or ecological community is categorised as vulnerable in terms of the <i>EPBC Act (Cth)</i> if, at that time, it is not critically endangered or endangered, and is facing a high risk of extinction in the wild in the medium-term future.
WAIV	wind intensified evaporation
WAMP	Water Allocation Management Plan
WBBRP	Wide Bay Burnett Regional Plan
WBDDP	Western Basin Dredging and Disposal Project
WCM	Walloon Coal Measures - main gas bearing units in the Surat Basin
WCP	Wandoan Coal Project
WDRC	Western Downs Regional Council
WERD	Water Entitlements Register Database
WHA	World Heritage Area
WHMPA	World Heritage Marine Park Area
WHO	World Health Organization
WHR	waste heat recovery
WICT	Wiggins Island Coal Terminal
WIFI	wireless fidelity
WONS	weeds of national significance
WildNet	Environmental Protection Agency WildNet Database (Qld)
WQ	water quality
WQO	water quality objectives
WRGABP	Water Resource Great Artesian Basin Plan
WRP	Water Resource Plan
WSA	Waterway Suitability Assessment

<b>Term/Acronym</b>	<b>Definition</b>
WS Act	Water Supply (Safety and Reliability) Act 2008 (Qld)
WTP	water treatment plant
WTS	waste transfer station
WWF	World Wildlife Fund
ZVI	Zones of Visual Influence