

## CROSS-REFERENCE OF DEC GUIDELINES AND REQUIREMENTS TO EIS SECTIONS

This table provides a reconciliation between the contents of PNG LNG Project Environmental Impact Statement (EIS) with the PNG Government *Guideline for Preparation of Environmental Impact Statements* and comments provided to ExxonMobil by representatives of the Department of Environment and Conservation (DEC) either by correspondence or during consultative meetings held during the development of the EIS and its associated specialist studies program.

Table 1 addresses the EIS guidelines, Table 2 addresses comments in correspondence from DEC and Table 3 addresses comments or questions made by representatives of DEC during consultative meetings with ExxonMobil.

**Table 1 Reconciliation with the PNG Government EIS guidelines**

EIS Assessment Guidelines	EIS Section or Chapter	EIS Figures, Tables and Plates	EIS Appendix
<p><b><i>Letter of Transmittal or Cover Letter</i></b></p> <p>It is important that an Environmental Impact Statement on the proposal must be transmitted to DEC with a cover letter signed by the responsible company official or its authorised representative (i.e., consultant - engaged by the company to act on its behalf).</p> <p>If an external consultant is used, the letter must also authorise the consultant to make statements and provide further information on behalf of the company in relation to the application.</p>			
<p><b>1. <i>Executive Summary or Overview of Proposal</i></b></p> <p>One of the main objectives of this section is to provide an explanation of the project for non-technical readers.</p> <p><i>NOTE: The summary should not be more than five pages in length and be written in English, Tok Pisin and the relevant Local Dialect.</i></p>	Executive summary		
<p>Information provided in the Executive Summary shall concisely describe:</p> <ul style="list-style-type: none"> <li>• The proposed development activity and its objectives.</li> </ul>	Executive summary		

**Table 1 Reconciliation with the PNG Government EIS guidelines (cont'd)**

	<b>EIS Assessment Guidelines</b>	<b>EIS Section or Chapter</b>	<b>EIS Figures, Tables and Plates</b>	<b>EIS Appendix</b>
<b>1.</b>	<b><i>Executive Summary or Overview of Proposal (cont'd)</i></b>			
	<ul style="list-style-type: none"> <li>• Anticipated bio-physical and socio-economic impacts (direct/indirect, reversible/irreversible) of the activity.</li> <li>• Details of remedial actions that are proposed.</li> <li>• All benefits to be derived from the project.</li> <li>• Details of consultation program undertaken by the applicant, including degree of public interest.</li> <li>• Rehabilitation and/or end-use plans for the development activity in relation to community needs.</li> </ul>	<p>Executive summary</p> <p>Executive summary</p> <p>Executive summary</p> <p>Executive summary</p> <p>Executive summary</p>		
<b>2.</b>	<p><b><i>Purpose of the development</i></b></p> <p>The purpose of this section is to ensure that only development activities that are in the best interest of all Papua New Guineans, and therefore in line with the PNG Government's overall development strategy and planning guidelines, are considered for approval.</p>	1.2		
	NOTE: Demonstrate commitment to the conservation of natural ecosystems and protection of environmental values within the proposed development area.	1.2.4, 4.6, 30.2	Figure 30.1, Figure 30.2	1, 3, 4, 5, 6, 7, 8, 12, 13, 14, 15, 16, 17, 22, 23
	<p>This section shall include but not be limited to the following:</p> <ul style="list-style-type: none"> <li>• Describe if the development is in line with the Fourth National Goal and Directive Principle of the National Constitution of PNG.</li> <li>• Explain if the proposed development is compatible with National, Provincial and Local Level Government development goals and planning guidelines.</li> <li>• Detail the economic benefits to the Nation, Province, Local Level Governments and to the local community being impacted.</li> </ul>	<p>1.2.4, 8.1</p> <p>1.2.4, 8.1, 8.2, 8.3, 8.4, 8.5</p> <p>7.2, 23.6</p>	<p>Figure 23.3, Figure 23.4</p>	26

**Table 1 Reconciliation with the PNG Government EIS guidelines (cont'd)**

EIS Assessment Guidelines		EIS Section or Chapter	EIS Figures, Tables and Plates	EIS Appendix
<b>3.</b>	<p><b><i>Viability of the project</i></b></p> <p>Provide information on the viability of the proposed development activity. These details shall include but not be limited to the following:</p> <ul style="list-style-type: none"> <li>• Information on the capital cost associated with the development.</li> <li>• Details of the proponent's technological expertise and resources.</li> <li>• Results of any feasibility investigations that have been carried out.</li> <li>• Information on the extent of landowner and/or resource owner support, including a copy of the formal written approval of their consent.</li> <li>• Details of the life-span and development phases of the project.</li> </ul>	<p>7.2</p> <p>1.3, 7</p> <p>7.1</p> <p>9.8<sup>a</sup>, 23.5</p> <p>1.2, 2.2, 3.6 4.5, 4.13</p>	<p>Figure 1.3, Figure 1.4</p>	26
<b>4.</b>	<p><b><i>Description of the proposed development activity</i></b></p> <p>All details on the proposed development activity required under this section should be provided where applicable to the proposal. Details to be provided under this section may include the following:</p> <ul style="list-style-type: none"> <li>• Background information to the proposal, process technologies to be employed, etc.</li> <li>• Detailed location maps (drawn to scale), site layout, etc.</li> <li>• Information on method of site selection including alternatives investigated, plant or building designs, relevant diagrams and drawings.</li> </ul>	<p>2, 3, 4, 5</p> <p>2, 3, 4</p> <p>6.1, 7</p>	<p>Figure 1.1, Figure 1.2, Figure 2.1, Figure 4.1, Figure 5.1, Figure 5.3, Figure 5.4, Figure 5.5, Figure 6.2, Figure 6.3, Figure 7.1, Figure 7.2</p>	

<sup>a</sup> The program for ongoing future engagement with landowners is described in Section 9.8, Public Consultation and Disclosure Plan.

**Table 1 Reconciliation with the PNG Government EIS guidelines (cont'd)**

EIS Assessment Guidelines	EIS Section or Chapter	EIS Figures, Tables and Plates	EIS Appendix
<p><b>4.</b> <i>Description of the proposed development activity (cont'd)</i></p> <ul style="list-style-type: none"> <li>• Detailed flowcharts, mass balances (including feedstocks, products and wastes generated, etc.).</li> <li>• Description of nearby development activities that may contribute to background pollution levels or other baseline conditions.</li> <li>• Information on associated infrastructure/facilities to be constructed.</li> </ul>	<p>2, 4, 25</p> <p>18.8, 24</p> <p>1.2.1, 2, 3, 4, 5</p>	<p>Figure 2.11, Figure 4.3, Figure 4.5</p> <p>Table 5.2, Table 5.3, Table 5.5, Table 5.6, Table 13.1</p>	<p>9, 18</p>
<p><b>5.</b> <i>Development timetable</i></p> <p>Information on the development timetable provided under this section should be clear and easy for DEC to understand the different phases in the development proposal. For reasons of clarity, a flow chart, Gantt or PERT chart should be used where appropriate.</p>			
<p>Information provided in this section shall include but not be limited to the following:</p> <ul style="list-style-type: none"> <li>• Information on funding arrangements for proposed activity or if availability of funds subject to this or other approvals being granted.</li> <li>• Details of preconstruction activities.</li> <li>• Information on consultation program with all affected parties (i.e., parties that may be directly and indirectly affected).</li> <li>• Details of construction schedule, staging, etc.</li> <li>• Details of commissioning and operational schedules.</li> </ul>	<p>1.1</p> <p>2.4, 3.4, 4.5, 5</p> <p>9, 23</p> <p>2.4, 2.5, 2.6, 3.4, 3.5, 3.6, 4.5, 4.6, 4.7, 4.8, 4.9, 4.10, 5.3</p> <p>2.5 (drilling), 2.7, 3.7, 4.11, 5</p>	<p>Figure 1.3</p> <p>Figure 9.1</p> <p>Figure 1.3</p>	

**Table 1 Reconciliation with the PNG Government EIS guidelines (cont'd)**

	EIS Assessment Guidelines	EIS Section or Chapter	EIS Figures, Tables and Plates	EIS Appendix
5.	<b>Development timetable (cont'd)</b>			
	<ul style="list-style-type: none"> <li>• Details of infrastructure development schedule.</li> <li>• Details of closure and rehabilitation schedule.</li> </ul>	1 2.10, 3.8, 4.13	Figure 1.3, Figure 3.14	
6.	<b>Characteristics of the receiving environment</b>			
	<b>Available Environmental Studies &amp; Investigations</b>			
	<p>Information provided in this sub-section shall include but not be limited to the following:</p> <ul style="list-style-type: none"> <li>• Historic or current baseline data on physical, biological and social systems.</li> <li>• A written estimate of research and/or study time already expended and to be further undertaken.</li> </ul>	10, 11, 12, 13, 14, 15, 16, 17  Part I, Part III	Extensive variety of figures and plates throughout the EIS.	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26  All appendices (1 to 26)
	<b>Physical Environment</b>			
	<p>Provide details on the existing physical environment including data on ambient environmental quality of various segments of the environment, including the following:</p> <ul style="list-style-type: none"> <li>• Geomorphological, topographical and geological characteristics.</li> <li>• Any natural or induced hazard in the area (e.g. flood, earthquake, volcanic zone).</li> </ul>	2.2.1, 10.2, 11.2, 12.2, 13.2  10.2, 11.2, 12.2, 13.2	Figure 6.4, Figure 6.5, Figure 6.7, Figure 6.8, Figure 6.9, Figure 6.10, Figure 6.11, Figure 6.12, Figure 6.13, Figure 6.14, Figure 10.3, Figure 10.6, Figure 10.7, Figure 12.2, Figure 12.4, Figure 13.2  Figure 10.4, Figure 10.5	8, 17, 22  14, 15

**Table 1 Reconciliation with the PNG Government EIS guidelines (cont'd)**

EIS Assessment Guidelines	EIS Section or Chapter	EIS Figures, Tables and Plates	EIS Appendix
<b><i>Physical Environment (cont'd)</i></b>			
<ul style="list-style-type: none"> <li>• Climatic regime (e.g., rainfall, temperature).</li> <li>• Air quality and meteorological data set for air dispersion modelling, etc.</li> <li>• Seasonal surface water quality and hydrological information.</li> <li>• Seasonal ground water quality and flow regime.</li> <li>• Noise levels.</li> </ul>	<p>10.2.6, 11.2.3, 12.2.6, 13.2.2</p> <p>18.8, 20.7, 21.3</p> <p>10.2.8, 11.2.5, 12.2.7</p> <p>10.2.4, 12.2.4</p> <p>10.2.9, 12.2.10</p>	<p>Figure 10.8</p> <p>Figure 12.5</p> <p>Figure 20.5, Figure 20.6</p>	<p>18</p> <p>9, 18</p> <p>5, 15</p> <p>6, 16</p> <p>10, 19</p>
<b><i>Biological Environment</i></b>			
<p>Detailed information should be provided on the existing biological environment, including the following:</p> <ul style="list-style-type: none"> <li>• Presence of a protected area (Conservation Area or Wildlife Management Area), if any.</li> <li>• Details of any special purpose areas (e.g., wetland area).</li> <li>• Aquatic and terrestrial ecology of the area.</li> <li>• Information on vulnerable (endangered) species.</li> </ul>	<p>10.3.5, 12.3</p> <p>10.2, 10.3.5, 10.3.7, 10.4</p> <p>10.3, 10.4, 10.5, 11.3, 12.3, 12.4, 12.5, 13.3, 13.4</p> <p>10.3, 10.4, 11.3, 12.3, 12.4</p>	<p>Figure 11.3, Figure 11.4, Figure 12.6, Figure 12.10, Figure 12.11, Figure 12.12, Figure 12.13, Figure 13.5, Figure 13.6, Figure 13.7, Figure 13.8, Figure 13.9, Figure 13.10, Figure 13.11</p>	<p>1, 2, 3, 12, 13</p> <p>1, 2, 3, 12, 13</p> <p>1, 2, 3, 12, 13</p> <p>1, 2, 3, 12, 13</p>

**Table 1 Reconciliation with the PNG Government EIS guidelines (cont'd)**

EIS Assessment Guidelines		EIS Section or Chapter	EIS Figures, Tables and Plates	EIS Appendix
	<b>Biological Environment (cont'd)</b>			
	<ul style="list-style-type: none"> <li>Other relevant biological information.</li> </ul>	10.3, 10.4, 10.5, 11.3, 12.3, 12.4, 12.5, 13.3, 13.4	Figure 11.3, Figure 11.4, Figure 12.6, Figure 12.10, Figure 12.11, Figure 12.12, Figure 12.13, Figure 13.5, Figure 13.6, Figure 13.7, Figure 13.8, Figure 13.9, Figure 13.10, Figure 13.11	1, 2, 3, 12, 13
	<b>Social Environment</b>			
	This sub-section deals with the existing social structure and socio-economic data on the resource/land owners, Local Level Government, the Province and PNG as a whole.			
	Issues that may arise within and outside of the project area should be identified including whether this is a direct or indirect outcome of the physical, biological or socio-economic effects of the proposed development activity.			
	The outcome of the Social Impact Assessment process is the Social Impact Statement, which is included in this section of the Environmental Impact Statement that is submitted to DEC for assessment.	15, 17, 23	Figure 23.3, Figure 23.4, Figure 23.5, Figure 23.6, Figure 23.7, Figure 23.10	26
	Information provided in this sub-section shall include but not be limited to the following details:			
	<ul style="list-style-type: none"> <li>Demographic information.</li> </ul>	15, 17, 23		26
	<ul style="list-style-type: none"> <li>Information on existing infrastructure.</li> </ul>	15, 17, 23		26

**Table 1 Reconciliation with the PNG Government EIS guidelines (cont'd)**

EIS Assessment Guidelines	EIS Section or Chapter	EIS Figures, Tables and Plates	EIS Appendix
<b><i>Social Environment (cont'd)</i></b>			
<ul style="list-style-type: none"> <li>• Information on public health issues (if applicable).</li> <li>• Information on present economic status of the project area.</li> <li>• Description of existing social services.</li> <li>• Details of archaeological, historical, cultural or religious features of the project area under consideration, etc.</li> </ul>	<p>15, 17, 23</p> <p>15, 17, 23</p> <p>15, 17, 23</p> <p>14, 16, 22</p>	<p>23.7</p>	<p>26</p> <p>26</p> <p>26</p> <p>26</p>
<b>7. <i>Waste minimisation, cleaner production and energy balance</i></b>			
<p>Information detailed in this section should include consideration of options associated with waste minimisation, cleaner production and energy balance and the ability of the proponent to employ these strategies in its proposed activity.</p> <p>Detailed information to be covered in this section shall include but not be limited to the following:</p> <ul style="list-style-type: none"> <li>• Details of alternative 'cleaner production' technologies or processes that have been considered.</li> <li>• Information on the basis for choosing the proposed technology or process.</li> <li>• Available technical background on the process chosen.</li> <li>• Details of the Waste Minimisation Strategy developed for the proposal.</li> <li>• Details of an 'energy balance' for the proposal.</li> </ul>	<p>2.3, 2.7, 4.2, 7, 26</p> <p>7</p> <p>2, 4</p> <p>25</p> <p>26, 26.3.3</p>	<p>Figure 4.1, Figure 4.3, Figure 4.4, Figure 4.5</p> <p>Figure 26.2, Figure 26.3, Figure 26.4</p>	<p>25</p>



**Table 1 Reconciliation with the PNG Government EIS guidelines (cont'd)**

EIS Assessment Guidelines	EIS Section or Chapter	EIS Figures, Tables and Plates	EIS Appendix
<b>8. Environmental management, monitoring and reporting</b>			
Sufficient information should be provided in this section of the Environmental Impact Statement to enable DEC to anticipate possible environmental management, monitoring and reporting requirements for an Environment Permit.			
Information listed should reflect the proponent's environmental policy (environment management system) and the translation of that policy to meet the requirements under this Section and Section 7 (Potential Impacts of Proposal) during different stages in the project life, from construction to decommissioning and closure.			
Information detailed in this section shall include but not be limited to the following: <ul style="list-style-type: none"> <li>• Details of information on plant operating conditions, including management and monitoring strategy.</li> <li>• Information on socio-economic management and monitoring strategy.</li> <li>• Mechanism and frequency for reporting monitoring results to DEC and other stakeholders, especially to directly affected stakeholder groups.</li> <li>• Availability of contingency and/or emergency plans drawn up for the proposal.</li> <li>• Details of Environment Improvement Plan.</li> <li>• Details of Waste Minimisation and/or Management Plans.</li> <li>• Information on potential rehabilitation issues and strategies including Rehabilitation Plan.</li> </ul>	2, 3, 4, 5, 25, 30 23, 30 9.8, 22, 23, 30 27, 30 30 25 2.10, 3.8, 4.13		
<b>9. Other statutory decisions</b>			
Provide detailed information on other statutory decision(s) that are relevant to this proposed development activity.	8.1, Attachment 4		

**Table 1 Reconciliation with the PNG Government EIS guidelines (cont'd)**

	<b>EIS Assessment Guidelines</b>	<b>EIS Section or Chapter</b>	<b>EIS Figures, Tables and Plates</b>	<b>EIS Appendix</b>
<b>9.</b>	<b><i>Other statutory decisions (cont'd)</i></b>			
	Provide the draft or finalised Project Development Contract, Memorandum of Agreements or other similar legal decisions that are relevant to the proposal.	In progress and a subject of separate consultations with relevant PNG government departments and agencies.		
<b>10.</b>	<b><i>Confidential information</i></b> Details of classified information relating to a manufacturing or industrial process or trade secret used in carrying on or operating any particular undertaking or equipment or information of a business or financial nature in relation to the proposed activity should be clearly defined.  Such information would be classified as 'confidential information' and excluded from the Environmental Impact Statement before the document is made available for public review.	Noted		
<b>11.</b>	<b><i>References</i></b> Provide details of reference materials used in sourcing information and/or data used in the Environmental Impact Statement.	32		
<b>12.</b>	<b><i>Acknowledgements</i></b> Detail relevant acknowledgements.	33		
<b>13.</b>	<b><i>Study team</i></b> Provide detailed information on persons who assisted in the conduct of the Environmental Impact Assessment study and compilation of the Environmental Impact Statement. Persons involved should be the same as those approved in the Environmental Inception Report.	33		

**Table 2 Comments included in correspondence from DEC**

Source and Date of Comments	Comments	EIS Section or Chapter	EIS Figures, Tables or Plates	EIS Appendix
<p><b>Letter from DEC, 30 September 2007 and accompanying comments on the draft Environment Inception Report for PNG LNG Project</b></p>	<p><b>General Comment</b> In order to be consistent with the Guidelines for the Preparation of EIRs, the document should be re-formatted (re-numbered) so that Section 6 deals with all issues relating to Biophysical Environmental Issues for upstream, onshore and offshore pipeline and LNG facilities but each should be dealt with under separate sub-sections. Another section should deal with socio-economic issues, etc.</p>	10, 11, 12, 13, 14, 15, 16, 17		
	<p><b>Issue: Section 4 – Description of the Proposed Development Schematic Diagram/Site Plans</b> Once the LNG processing site has been selected, a schematic diagram should be provided indicating the process, mass balances of the product and any chemicals to be used in the process.</p>	4	Figure 4.1, Figure 4.3, Figure 4.4, Figure 4.5	
	<p>The schematic should also indicate areas of waste generation clearly indicating the discharge points.</p>	4, 25	Figure 4.4	
	<p>Details of any options for recovery or reuse of materials for waste minimisation purposes should be indicated in the EIS.</p>	25, 26		

**Table 2 Comments included in correspondence from DEC (cont'd)**

Source and Date of Comments	Comments	EIS Section or Chapter	EIS Figures, Tables or Plates	EIS Appendix
	<p><b><i>Issue: Section 4 – Description of the Proposed Development Schematic Diagram/Site Plans (cont'd)</i></b></p> <p>The EIS should also have a clear site plan of all the facilities drawn to scale as well as diagram and bathymetry/GIS references of underwater Pipeline ROW and the jetties.</p>		<p>Figure 1.1, Figure 1.2, Figure 2.1, Figure 4.1, Figure 5.1, Figure 5.3, Figure 5.4, Figure 5.5, Figure 11.1, Figure 13.2</p>	
	<p><b><i>Issue: Appendix A – Biodiversity</i></b></p> <p>The regulatory requirements should include the Conservation legislation and PNG's membership of CITES and other international conventions relating to species protection and conservation.</p>	<p>8.2, 10.4.6</p>	<p>Table 8.6</p>	<p>1, 2, 3, 7, 12, 13</p>
	<p>A baseline study should also be undertaken to establish the species composition along the underwater pipeline route and identify any sensitive organisms needing special attention including turtle species, lobsters/crayfish and dugongs, or other marine organisms of traditional or semi-commercial value besides the prawns for the prawn industry. The proponent should also be supportive of any future studies relating to biodiversity in its areas of operations.</p>	<p>11, 13, 19, 21</p>	<p>Figure 11.3</p>	<p>11, 23, 24</p>

**Table 2 Comments included in correspondence from DEC (cont'd)**

Source and Date of Comments	Comments	EIS Section or Chapter	EIS Figures, Tables or Plates	EIS Appendix
	<p><b>10.1.2 Marine</b> How will the marine fauna be surveyed and recorded for baseline purposes?</p>	11, 19, 21		23, 24
	<p><b>Issue: Appendix F – Air Quality</b> Under 'Regulatory Requirements' (p. 10) some text should be included to indicate Papua New Guinea's membership of the Stockholm Convention on Persistent Organic Pollutants. The convention lists 12 chemicals (8 of these chemicals are pesticides, 2 are industrial chemicals), and 2 groups of chemicals, namely dioxins and furans, which are unintentionally-produced chemicals which are released through various combustion sources. Some congeners of the above industrial chemicals, hexachlorobenzene (HCB) and poly-chlorobiphenyl (PCB) are also unintentionally produced and released from combustion sources.  For this reason, these groups of chemicals should be given some prominence, like the climate change chemicals to ensure PNG meets its obligations under the abovementioned convention. The Guidelines on Best Available techniques and Best Environmental Practices under the Stockholm Convention should be consulted for further information (download from <a href="http://www.pops.int">www.pops.int</a>).</p>	8, 25	Table 8 .6	
	<p>Details of all other chemical constituents should be provided for air emissions especially for the LNG Plant and any intention or efforts to install air quality control and monitoring devices should be stated.</p>			9, 18
	<p><b>Issue: Appendix I – Waste Management</b> The 'Regulatory Requirements' should also include PNG being a Party to various international and regional environmental agreements including the Stockholm Convention.  PNG is also Party to the Basel<sup>1</sup> and the Waigani<sup>2</sup> conventions, which deal with transboundary movement and disposal of hazardous wastes. Hence, these conventions should also be highlighted in this section.</p>	8  8.2, 25.1		



**Table 2 Comments included in correspondence from DEC (cont'd)**

Source and Date of Comments	Comments	EIS Section or Chapter	EIS Figures, Tables or Plates	EIS Appendix
	<b>Section 10 Socio-economic Settings</b>			
	<b>Issue: Section 10.2 – Assessment of Social Issues relating to Health and Education</b>			
	<p><b>Health</b></p> <p>The social mapping in Appendix P2 should include the disease patterns and identification of social/health risks associated with influx of people from other centres or overseas, especially any potential impact on the health of the people in the communities (Environmental Health Impact Assessment).</p> <p>Some information should be given in EIS on the Community Infrastructure, and indication of the amount of information that will be provided in the EIS.</p>	<p>15.6, 17.6 23.7  23.10</p>		26
	<p><b>Education</b></p> <p>A list of community schools in each LLG should be included with indication of the education levels/grades offered at each of the schools.</p>	15.7, 17.7, 23.8		26
	<p>A survey on the education levels of the population would be useful to determine the literacy rates and qualifications of people in those communities which should assist in identifying areas of collaboration between the proponent and line responsible agencies in capacity building/training for locals and improving the education potential to increase the opportunities for local communities/people to participate meaningfully in the project by way of engaging some of them in semi-skilled to skilled employment in the project.</p> <p>The EIS should provide information and data on the current qualifications and level of education of the population in the project areas and any assistance that the project can offer the population in setting up a mechanism for providing support or sponsorship for those who are interested in pursuing further education in the future.</p>	15.7, 17.7, 23.8		26

**Table 2 Comments included in correspondence from DEC (cont'd)**

Source and Date of Comments	Comments	EIS Section or Chapter	EIS Figures, Tables or Plates	EIS Appendix
	<b>Education (cont'd)</b> The EIS should also address traditional land use patterns and the potential benefits that can be derived from the project as well as any potential negative impacts the project may have on these land uses.	15, 17, 23		26
	<b>Pg 26 Section on Portion 152 Konebada Petroleum Park</b> There is no mention of the subsistence/semi-commercial fishing/hunting activities of the communities near or around the proposed area and any potential impacts of the development on these activities.	17.8, 17.9, 21.6, 21.7, 23.9, 23.10, 23.11		26
	The statement on the agricultural activities of the Motu-Koita is misleading as despite the challenging climatic conditions, the people in the area have engaged in subsistence/semi-commercial agricultural activities taking advantage of micro-environments and seasonal variations for agricultural activities. Hence, Section 10.2 should have text indicating that information on this would be sought through surveys/socio-economic studies and provided in the EIS and any suggestions for community assistance for technology transfer/capacity building to improve the agricultural potential of the area.	17.4, 17.5, 17.8, 23.6.4, 23.8, 23.9	Figure 17.2	26
	<b>Section 10.2 Socio-economic Surveys<sup>a</sup></b>			
	Socio-economic surveys should also be included for the LNG Facility location, even if Konebada is the site selected. This will involve surveys of surrounding communities. For sites that are traditionally owned, proper genealogical studies would need to be undertaken to establish the ownership and user rights of the areas in question.	17.2, 23		26

<sup>a</sup> A social mapping and landowner identification survey has been conducted as required under the provisions of the Oil and Gas Act. That report will be provided to the Department of Petroleum and Energy. Information on genealogy and landowner communities gathered for that report has also been used for the preparation of the EIS as appropriate.



**Table 2 Comments included in correspondence from DEC (cont'd)**

Source and Date of Comments	Comments	EIS Section or Chapter	EIS Figures, Tables or Plates	EIS Appendix
	<p><b><i>Issue: Appendix P – Socio-economic &amp; Cultural Impact Assessment</i></b></p> <p><b><i>Level of Community Consultation</i></b></p> <p>The EIR should indicate the level of consultation the proponents will engage in with the landowners or surrounding communities and other relevant stakeholders on this project and the indications of support as well as any potential risks/perceived risks at all stages of the LNG pipeline ROW and processing operations. This should include the LNG Facility Plant area.</p>	9, 22.3.1.3, 23.6.4.3		26
	<p><b><i>Issue: Other Possible Development Activities</i></b></p> <p>The proponent should indicate in the EIR any efforts to identify some spin-off-benefits and how they perceive the local communities' involvement in such activities.</p>	23.6		
5 July 2008	The issue of climate change in relation to the PNG LNG Project must be discussed in greater detail, preferably a separate chapter to highlight the impacts and the mitigation measures.	24.3.1, 26		25

Environmental Impact Statement  
PNG LNG Project

**Table 3 Minuted comments from meetings with DEC (June 2007 to October 2008)**

Meeting Date	Item	Comment	EIS Section or Chapter	EIS Figures, Tables, Plates	EIS Appendix
<b>18 June 2007</b>	9	The EIS should consider the Equator Principles, given that Government participation in the project will require finance from international lenders.	8.3.2		
	9	The EIS consider the 'Assessment of associated and cumulative impacts', as this was a specific comment of the Environmental Council on the PNG Gas Project EIS.	24		
<b>27 September 2007</b>	3	The size of the proposed camps at the LNG facility should be explicit in the EIS.	4.4, 4.6.4		
	3	The capital investment figure should be clear and explicit, not expressed as a broad range.	1.2.5, 7.2, 23.6		
<b>29 May 2008</b>	3	The EIS should address the effect that construction will have on water colour. This is important because locals will think the water is contaminated if there is a change in colour. Long-term and short-term impacts need to be distinguished for locals' understanding.	18.5.1.2	Table 18.15	
<b>26 June 2008</b>	1	Climate change should be considered in the EIS.	26		
	2	The DEC asked whether sound from pipe-laying vessels would impact mammals.	19.4		
	2	The EIS should consider the safety of local villagers fishing around the facility.	21.6		

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**Table 3 Minuted comments from meetings with DEC (June 2007 to October 2008) (cont'd)**

Meeting Date	Item	Comment	EIS Section or Chapter	EIS Figures, Tables, Plates	EIS Appendix
<b>26 June 2008 (cont'd)</b>	5	The extent of disturbance to mangroves should be discussed in the EIS.	21.7		
<b>31 July 2008</b>	6	The EIS should consider the risk that acid sulfate soils (ASS) will form acid when exposed to oxygen. ASS exist in the mudflats behind the mangroves at Portion 152.	20.2.3, 20.2.1		
<b>28 August 2008</b>	3	The EIS should cover the plans and process for salvaging of archaeological material at Portion 152.	22.3		
	5	The EIS should state the criteria and goals of air quality assessment.	18.8.1, 20.7.1	Table 18.26	
	5	The air quality assessment should consider emissions from the refinery at Napa Napa.	12.2.11, 24.4.4		
	5	The air quality assessment should discuss the impact of hot air generated by flaring.	The layout of the facilities components and the distance between process and production facilities and the security fence boundaries are established on the basis of numerous hazard risk assessments that are undertaken during FEED and detailed design. The hazard risk assessments include modelling of potential radiant heat from flares and other production and process facilities. No separate assessment has been conducted for this EIS (see also Chapter 27, Environmental Hazard Assessment).		
	7	Clarification sought by DEC of what tree screening species would be planted, and whether there would be an adverse effect in planting fast-growing, non-local, screening trees.	A reclamation management plan will be prepared as part of the project's environmental management plan. The plan will include measures for revegetation of the natural vegetation communities at the LNG Facilities site [M11], see Chapter 29, Summary of Mitigation and Management Commitments.		