



# Pluto LNG Project – Ministerial Statement 757 as amended by Ministerial Statement 850 Annual Compliance Report 2012

Pluto Liquefied Natural Gas Development (Site B Option) Burrup Peninsula, Shire of Roebourne.

Date: December 2012

Status: Final

Document Number: DRIMS 8483289

# **Pluto LNG Project**

## **Ministerial Statement 757 as amended by Ministerial Statement 850 Annual Compliance Report 2012**

### **1. INTRODUCTION**

This Annual Compliance Report demonstrates compliance with conditions outlined in Ministerial Statement 757 as amended by Statement 850 for the Pluto Liquefied Natural Gas Development (Site B Option) Burrup Peninsula, Shire of Roebourne. This report meets the annual reporting requirements of Condition 4.1 of Ministerial Statement 757 and covers a reporting period of October 2011 to October 2012.

During the reporting period, the first LNG cargo departed the Pluto LNG Plant on 12 May 2012 and commissioning of the Plant was substantially progressed, with some activities remaining in 2013. Key milestones achieved during the reporting period and status of the components covered by Ministerial Statement 757 at the end of the reporting period are as follows:

- Whole Effluent Toxicity (WET) testing of wastewater, as required by the Marine Treated Wastewater Discharge Management Plan, commenced in October 2012 upon reaching appropriate plant performance during commissioning. Results will be used to inform Licensing and further testing requirements. This testing falls outside of the reporting period for this ACR, and will be covered in more detail in the 2012-2013 report;
- The 5 year Performance Review report required by Ministerial condition 5-1 will be submitted for the first time by January 15<sup>th</sup> 2013, to cover the period October 2007-October 2012;
- Tree planting to meet bio-sequestration targets as part of the greenhouse gas abatement program was completed during the 2012 planting season;
- Management Plans required by the Ministerial Statement which were updated during the reporting year included the Cultural Heritage Management Plan, Invasive Marine Species Management Plan and the Sea Turtle Management Plan;
- Offsets A and G required under Ministerial condition 12-2 as part of a greenhouse gas offset package were acknowledged during the reporting period by OEPA as meeting requirements.

### **1.1 STRUCTURE OF THIS DOCUMENT**

Section 2 contains the relevant conditions, actions taken and evidence produced to demonstrate that the conditions of the Ministerial statement have been met. Evidence for each of the conditions has been presented in Section 2 and the appendices (where relevant). Photos of the site have been provided in Appendix 1. Appendix 2 demonstrates compliance with the key actions contained within Environmental Management Plans.

This document complies with the requirements of the Annual Audit Program approved by the Department of Environment and Conservation on 30 June 2008.

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**2. MINISTERIAL CONDITIONS AND COMMITMENTS**

**Table 1: Ministerial Statement 757 - Pluto LNG Project (Site B Option), Conditions and Commitments**

• Audit Code • Subject	• What action must be taken • How action must be taken and/or objective of action • Objective • Evidence that action has been taken	• Project phase • When action to be taken • Where it is to be taken	• To requirements of • On advice from	Status: October 2011 – October 2012
757:M1.1 Proposal Implementation	<p><b>Action</b> Implement the proposal as documented and described in schedule 1 of this statement (Ministerial Statement 757) subject to the conditions and procedures of this statement.</p> <p><b>Objective</b> To minimise environmental impact of the project.</p> <p><b>Evidence</b> Confirmed in Pluto LNG Project Ministerial Statement 757 Compliance Report.</p>	Overall Ongoing	Minister for Environment	<p><b>In Progress</b></p> <p>The Proposal is being implemented as documented in Schedule 1.</p> <p>Construction commenced on 15 October 2007 and the plant was declared Ready for Start-Up in March 2012. The first LNG Cargo departed Pluto LNG Park on 12 May 2012.</p> <p>Photos have been provided of the site in Appendix 1.</p>
757:M2.1 Proponent Nomination and Contact Details	<p><b>Action</b> The proponent for the time being nominated by the Minister for the Environment under sections 38(6) or 38(7) of the Environmental Protection Act 1986 (the Act) is responsible for the implementation of the proposal.</p> <p><b>Objective</b> To ensure legal responsibility for the project rests with a nominated proponent.</p> <p><b>Evidence</b> Confirmed in Pluto LNG Project Ministerial Statement 757 Compliance Report.</p>	Overall Ongoing	Minister for Environment	<p><b>In Progress</b></p> <p>Woodside remains responsible for implementation of Ministerial Statement 757 as nominated by the Minister for Environment.</p>
757:M2.2 Proponent Nomination and Contact Details	<p><b>Action</b> Notify the Chief Executive Officer of the Department of Environment and Conservation (CEO) of any change of the name and address of the proponent for the serving of notices or other correspondence within 30 days of such change.</p> <p><b>How</b> In the event of change in address, notify DEC within 30 days of change.</p> <p><b>Objective</b> To ensure that the DEC is able to maintain contact with the proponent</p> <p><b>Evidence</b> Details of change of name/and or address.</p>	Overall Ongoing	DEC	<p><b>Not applicable for 2011-2012 reporting period</b></p> <p>Name and address of proponent remains the same as original application.</p>
757:M3.1 Time Limit of Authorisation	<p><b>Action</b> The proposal must be substantially commenced within 5 years of the date of publication of this statement.</p> <p><b>Objective</b> To ensure that the project is implemented using the most recent information and technology available.</p> <p><b>Evidence</b> Pluto LNG Project Ministerial Statement 757 Compliance Report.</p>	Overall Within 5 years	Minister for Environment	<p><b>Completed</b></p> <p>Construction commenced on 15 October 2007. Proposal has been substantially commenced, as demonstrated in Pluto LNG Project Ministerial Statement 757 - 2008 Annual Compliance Report (ACR).</p>
757:M3.2 Time Limit of Authorisation	<p><b>Action</b> Provide the CEO with written evidence which demonstrates that the proposal has substantially commenced on or before the expiration of 5 years from the date of this statement.</p> <p><b>Objective</b> To ensure that the project is implemented using the most recent information and technology available.</p> <p><b>Evidence</b> Confirmed in Pluto LNG Project Ministerial Statement 757 Compliance Report.</p>	Overall Within 5 years	Minister for Environment	<p><b>Completed</b></p> <p>Pluto LNG Project Ministerial Statement 757 - 2008 ACR provided evidence which demonstrated the substantial commencement of the Project.</p>
757:M4.1 Compliance Reporting	<p><b>Action</b> Submit to the CEO an annual environmental compliance report relating to the previous twelve-month period, the first report to be submitted within 15 months after the commencement of operations and thereafter annually, unless required by the CEO to report more frequently.</p> <p><b>Objective</b> To provide evidence that the proposal is being implemented as approved, and the relevant conditions and commitments are being met.</p> <p><b>Evidence</b> Pluto LNG Project Ministerial Statement 757 Compliance Report to be submitted for the period of October - October. Content to include the "Evidence" listed in this audit table against each Ministerial Condition plus internal audit results. Report to be submitted by 15 January each year.</p>	Overall Annually Reported	DEC	<p><b>Completed for the 2011-2012 period of reporting</b></p> <p>Pluto LNG Project Ministerial Statement 757 ACR will be submitted for the period of October 2011-October 2012 prior to the 15 January deadline. Content includes "Evidence" listed in this audit table against each Ministerial Condition.</p>
757:M4.2 Compliance Reporting	<p><b>Action</b> The environmental compliance reports shall address each element of an audit program approved by the CEO and shall be prepared and submitted in a format acceptable to the CEO.</p> <p><b>Objective</b> To provide evidence that the proposal is being implemented as approved, and the relevant conditions and commitments are being met.</p> <p><b>Evidence</b> Audit Program.</p>	Overall	DEC	<p><b>Completed for the 2011-2012 period of reporting</b></p> <p>Pluto LNG Project Annual Audit Program was submitted to DEC for comment on 28 May 2008. DEC approved the audit program on 30 June 2008.</p> <p>The 2012 environmental compliance report follows the approved format.</p>

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757:M4.3 Compliance Reporting	<p><b>Action</b> The environmental compliance reports shall: 1. be endorsed by signature of the proponent's Managing Director or a person, approved in writing by the CEO, delegated to sign on behalf of the proponent's Managing Director; 2. state whether the proponent has complied with each condition and procedure contained in this statement; 3. provide verifiable evidence of compliance with each condition and procedure contained in this statement; 4. state whether the proponent has complied with each key action contained in any environmental management plan or program required by this statement; 5. provide verifiable evidence of conformance with each key action contained in any environmental management plan or program required by this statement; 6. identify all non-compliances and non-conformances and describe the corrective and preventative actions taken in relation to each non-compliance or non-conformance; 7. review the effectiveness of all corrective and preventative actions taken; and 8. describe the state of implementation of the proposal.</p> <p><b>Objective</b> To demonstrate compliance with Ministerial Conditions.</p> <p><b>Evidence</b> See condition M4.1.</p>	Overall	DEC	<p><b>Completed for the 2011-2012 period of reporting</b></p> <p>Pluto LNG Project Ministerial Statement 757 ACR 2012 fulfils requirements of 757:M:4.3</p> <p>Woodside has complied with each key action contained within all Environmental Management Plans and programs required by the Ministerial Conditions. Appendix 2 outlines compliance with key actions of each Management Plan.</p> <p>A progress update is provided in the introduction to this ACR.</p>
757:M4.4 Compliance Reporting	<p><b>Action</b> Make the environmental compliance reports required by Condition 4-1 publicly available in a manner approved by the CEO.</p> <p><b>How</b> Environmental compliance reports to be made available in accordance with OEPA Post Assessment Guideline for Making Information Publicly Available (PAG 4) published August 2012.</p> <p><b>Objective</b> To ensure the public is kept informed.</p> <p><b>Evidence</b> Report available on the Woodside website or upon request.</p>	Overall Annually	DEC	<p><b>In Progress for the 2011-2012 period of reporting</b></p> <p>Pluto LNG Project Ministerial Statement 757 ACR for 2008 to 2011 were made publicly available following submission, on the Woodside internet site;  <a href="http://www.woodside.com.au/Our-Business/Pluto/Sustainability/Pages/Environment.aspx">http://www.woodside.com.au/Our-Business/Pluto/Sustainability/Pages/Environment.aspx</a></p> <p>Pluto LNG Project Ministerial Statement 757 ACR 2008 to 2011 were also distributed to Department of Environment and Conservation Perth Library, State Library of Western Australia, Karratha Public Library and Shire of Roebourne offices as required.</p> <p>Pluto LNG Project Ministerial Statement 757 as amended by Ministerial Statement 850 ACR 2012 will be distributed to the public in accordance with the OEPA Post Assessment Guideline '<i>Making information publicly available</i>' published August 2012. Specifically, the ACR will be published on the Woodside internet site and provided to stakeholders upon request.</p>
757:M5.1 Performance Review	<p><b>Action</b> Submit a Performance Review report, every five years after the start of operations to the Environmental Protection Authority, which addresses: 1. the major environmental issues associated with implementing the project; the environmental objectives for those issues; the methodologies used to achieve these; and the key indicators of environmental performance measured against those objectives; 2. the level of progress in the achievement of sound environmental performance, including industry benchmarking, and the use of best available technology where practicable; 3. significant improvements gained in environmental management, including the use of external peer reviews; 4. stakeholder and community consultation about environmental performance and the outcomes of that consultation, including a report of any on-going concerns being expressed; and 5. the proposed environmental objectives over the next five years, including improvements in technology and management processes.</p> <p><b>How</b> 5-yearly report will be submitted following commencement of operations.</p> <p><b>Objective</b> To demonstrate compliance with Ministerial Conditions.</p> <p><b>Evidence</b> Submit 5-yearly Performance Review report to the EPA.</p>	Operation Every 5 years	EPA	<p><b>In Progress for the 2011-2012 period of reporting</b></p> <p>This report has been prepared for the period October 2007-October 2012 and will be submitted to the OEPA by January 15<sup>th</sup> 2013.</p>
757:M5.2 Performance Review	<p><b>Action</b> Make the Performance Review reports required by condition 5-1 publicly available in a manner approved by the CEO.</p> <p><b>How</b> Performance Review Reports to be made available in accordance with OEPA Post Assessment Guideline for Making Information Publicly Available (PAG 4) published August 2012.</p> <p><b>Objective</b> To ensure the public is kept informed.</p> <p><b>Evidence</b> Report available on the Woodside website or upon request.</p>	Operation Every 5 years	DEC	<p><b>In Progress for the 2011-2012 period of reporting</b></p> <p>This report has been prepared for the period October 2007-October 2012 and will be submitted to the OEPA by January 15<sup>th</sup> 2013. It will then be made publicly available as required.</p>

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757:M6.1 Marine Impacts	<p><b>Action</b> Undertake all works to ensure that the Limits of Coral Loss, specified in Schedule 2 (of Ministerial Statement 757), associated with each of the designated Impact Criteria Zones described and defined in figure 3, are not exceeded.</p> <p><b>How</b> - Implement Best Environmental Practice (BEP) techniques; - Implement the Dredging and Spoil Disposal Management Plan (DSDMP) specified Water Quality Monitoring Program to identify any decline in water quality and allow contingency management actions to be applied; - Implement the DSDMP specified Coral Health Monitoring Program to identify any net coral mortality and allow contingency management actions to be applied.</p> <p><b>Objective</b> To minimise impact of dredging on the marine environment.</p> <p><b>Evidence</b> Ongoing provision of Water Quality Reports and Coral Health Reports to the Pluto Dredge Environmental Management Group on a timely basis for review and overview of status. Results of the above captured in DEMG minutes; Compliance reports to the DEC Compliance Monitoring Section if Level 1, 2 or 3 trigger levels are exceeded.</p>	Construction During Construction	Minister for Environment	<p><b>Completed</b></p> <p>This condition was met during the 2010 reporting period and no further action is required.</p> <p>Dredging was completed on 21 May 2010.</p>
757:M6.2 Compliance Reporting	<p><b>Action</b> If any Level 1 Coral Condition Management Trigger Criterion referred to in Schedule 3 is exceeded, within 12 hours following detection of the exceedance, notify the CEO and provide details of the actions being taken to reduce turbidity generating activities which are effecting that site; and within 24 hours of the criterion being exceeded, implement management actions to keep impacts within approved limits specified in schedule 2.</p> <p><b>How</b> Management actions taken are dependent on circumstances (dredge location, meteorological conditions, tide etc.). Appropriate contingency actions will be selected from those specified in the DSDMP in consultation with the DEMG.</p> <p><b>Objective</b> To minimise impact of dredging on the marine environment.</p> <p><b>Evidence</b> Compliance reports to the DEC CEO in the event of a Schedule 3 exceedance; DEMG minutes outlining actions taken and assessment of adequacy.</p>	Construction	DEC	<p><b>Completed</b></p> <p>This condition was met during the 2010 reporting period and no further action is required.</p>
757:M6.3 Compliance Reporting	<p><b>Action</b> If any Level 2 Coral Condition Management Trigger Criterion referred to in schedule 3 is exceeded at any monitoring site,; 1. Immediately suspend all dredging and dredge spoil activities that contributed to the exceedance; 2. Provide a report to the CEO on the measures to be implemented to keep impacts below the limits in schedule 2, prior to recommencing any dredging and dredge spoil activities that contributed to the exceedance which could affect that site; and 3. Provide a report, on advice of the Dredge Environmental Management Group, defining marine water quality conditions which will be met for the endorsement of the Minister for the Environment on advice of the CEO to allow for the recommencement of dredging ensuring that mortality and / or impacts will not exceed the limits specified in schedule 2.</p> <p><b>How</b> The Coral Health Monitoring Program will be maintained with the results made immediately available to the Dredging Environmental Coordinator and Dredging Senior Environmental Advisor. Should an exceedance be identified, the process specified by MC6-3 will be implemented.</p> <p><b>Objective</b> To minimise impact of dredging on the marine environment.</p> <p><b>Evidence</b> Notification reports to the CEO in the event of a Schedule 3 exceedance; Investigation reports analysing the exceedance; Reports required by 2 and 3 of MSt: 6.3.</p>	Construction	DEC	<p><b>Completed</b></p> <p>This condition was met during the 2010 reporting period and no further action is required.</p>
757:M6.4 Compliance Reporting	<p><b>Action</b> If any Level 3 Coral Condition Management Trigger Criterion referred to in schedule 3 is exceeded at any monitoring site, 1. Immediately suspend all dredging and dredge spoil activities that contributed to the exceedance; and 2.Provide a report to the Minister for the Environment regarding the non-compliance with condition 6-1.</p> <p><b>How</b> As per Ministerial Condition 6.3 above.</p> <p><b>Objective</b> To minimise impact of dredging on the marine environment.</p> <p><b>Evidence</b> Investigation reports analysing the exceedance. Compliance reports to the Minister for the Environment regarding the Schedule 3 exceedance.</p>	Construction	Minister for Environment	<p><b>Completed</b></p> <p>This condition was met during the 2010 reporting period and no further action is required.</p>

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757:M6.5 Marine Impacts	<p><b>Action</b> Prior to commencement of turbidity-generating activities, prepare a Dredge Impact Management Plan for dredge activities which demonstrates that the activities can achieve the management targets for the Marine Park as set out in the Indicative Management Plan for the Proposed Dampier Archipelago Marine Park and Cape Preston Marine Management Area, and which demonstrates that management strategies will be employed which will minimise impacts on benthic habitats and communities (including corals) outside the Marine Park, to the requirements of the Minister on advice of the Environmental Protection Authority. Further details on the content required in this Plan are provided in schedule 4.</p> <p><b>How</b> DSDMP (DIMP) developed in consultation with key stakeholders (including DEC, DPA, DoF). Address the following: 1. comprehensive monitoring of water quality, sediment deposition, and coral condition; 2. best practice dredge procedures; 3. selection of a suitable location for the off-shore spoil ground which demonstrably does not cause impacts on the Marine Park; 4. optimum timing of works with respect to sea and meteorological conditions; 5. establishment of conservative 'stop work' trigger levels; 6. identification and temporal definition of key ecological windows when dredging activity will not occur, such as during coral spawning periods; and 7. contingency plans. Further details on the content required in this Plan are provided in schedule 4.</p> <p><b>Objective</b> To minimise impact of dredging on the marine environment.</p> <p><b>Evidence</b> Dredge Impact Management Plan.</p>	Design	Minister for Environment EPA	<p><b>Completed</b></p> <p>The Dredge and Spoil Disposal Management Plan (DSDMP) was approved by DEC on 20 March 2008 (DEC ref: 4610).</p> <p>The DSDMP was revised in August 2009 (Revision 9) to incorporate minor operational changes to the Water Quality Exceedance Investigation Protocol approved by DEC on 10 August 2009. The DSDMP was re-submitted to DEC with these approved changes incorporated on 25 November 2009 (Woodside ref: PLU/GOV/00422).</p>
757:M6.6 Marine Impacts	<p><b>Action</b> Implement the Dredge Impact Management Plan required by Condition 6-5.</p> <p><b>How</b> Communicate Legal and Other Requirements to responsible parties (training); Implement an internal audit program involving six monthly audits and Verification Plans for application/review of contractors.</p> <p><b>Objective</b> To minimise impact of dredging on the marine environment.</p> <p><b>Evidence</b> Internal audit schedule, audit criteria, and evidence of completion. DEMG minutes.</p>	Construction	Minister for Environment	<p><b>Completed</b></p> <p>This condition was met during the 2010 reporting period and no further action is required.</p>
757:M6.7 Marine Impacts	<p><b>Action</b> Make the Dredge Impact Management Plan required by condition 6-5 publicly available in a manner approved by the CEO.</p> <p><b>How</b> Dredge Impact Management Plan to be made available in the following locations: - the Local Government Authority (2 copies), Battye Library (2 copies); Karratha Public Library (2 copies); and DEC Library Perth (2 copies - 1 hard copy, 1 cd copy) - Copies also to be freely available for download from the Woodside internet site, (availability and locations of the Dredge Impact Management Plan are to be advertised in the Local newspaper Public Notices).</p> <p><b>Objective</b> To ensure that the public is kept informed.</p> <p><b>Evidence</b> Evidence of advertisement of Dredge Impact Management Plan.</p>	Construction	DEC	<p><b>Completed</b></p> <p>This condition was met during the 2008 reporting period. Since dredging and the dredge monitoring programme are now complete, the DSDMP has been removed from the Woodside internet site.</p>
757:M6.8 Marine Impacts	<p><b>Action</b> Resource a Dredge Environmental Management Group for the duration of the marine works and for such time before and after the marine works so as to carry out its function, to the requirements of the Minister for the Environment.</p> <p><b>How</b> The role of the Dredge Environmental Management Group is to provide the Minister for the Environment, the Department of Environment and Conservation and the proponent with advice including, but not limited to: 1. the marine management plans; 2. the marine monitoring programs; 3. the management of turbidity-generating activities and marine works; 4. impacts on marine fauna and flora, including corals; 5. reporting; 6. new management measures and 7. Level 1 and 2 Coral Condition Management Trigger Criteria for Zone C as required in Schedule 3. The membership of the Dredge Environmental Management Group may include: an independent chair appointed by the Minister for the Environment on advice from the CEO, and experts appointed by the Minister for the Environment, and the following may nominate one member each; the Department of Fisheries; the Dampier Port Authority; the Department of Environment and Conservation; and the proponent.</p> <p><b>Objective</b> To minimise impact of dredging on the marine environment.</p> <p><b>Evidence</b> Letters of appointment for the DEMG Chair and members from the Minister for the Environment. DEMG minutes.</p>	Overall For the duration of the Marine Works and for such time before and after the marine works so as to carry out its function.	Minister for Environment	<p><b>Completed</b></p> <p>The Dredge Environmental Management Group (DEMG) continued to meet on a monthly frequency during the 2010 reporting period.</p> <p>The final DEMG Meeting was held on 12 May 2010. Following this a DEMG Conclusion and Recommendations Workshop was held on 31 August 2010. The intention of this workshop was for DEMG members to summarise valuable information and experience gained during the Pluto dredging program. A final DEMG dredging report and recommendations has been provided to the OEPA.</p> <p>The Minister for Environment and Water acknowledged that the DEMG has completed its function.</p>

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757:M6.9 Marine Impacts	<p><b>Action</b> Prepare and submit to the Department of Environment and Conservation, a scope of Baseline Marine Habitat Survey document to the requirements of the Minister for the Environment. The objective of this document is to specify procedures to quantitatively determine the pre-development baseline distribution, community composition and health of benthic marine habitats (see note below) within the area which may be affected by any works associated with the proposal. Note: "Marine habitats" includes hard and soft coral communities, sponge communities, seagrass and macro-algal communities.</p> <p><b>How</b> Address the following: 1. survey methods; 2. location and establishment of survey sites; 3. timing and frequency of surveys; 4. habitat classification schemes; 5. treatment of survey data; and 6. mapping methodologies.</p> <p><b>Objective</b> To determine the baseline distribution, community composition and health of benthic marine habitats within the area.</p> <p><b>Evidence</b> DEC approval/endorsement of the Scope of Baseline Marine Habitat Survey document.</p>	Design Prior to commencement of marine works	Minister for Environment DEC	<b>Completed</b>  This condition was met during the 2008 reporting period and no further action is required.
757:M6.10 Compliance Reporting	<p><b>Action</b> Provide an initial report on a detailed survey of coral habitat and communities, and a map showing the general distribution of other benthic habitat types (including soft corals, sponges, algal reef communities) within and adjacent to the area of predicted effects of dredging to the Department of Environment and Conservation at least one month prior to the commencement of dredging.</p> <p><b>Objective</b> To minimise impact of dredging on the marine environment.</p> <p><b>Evidence</b> Initial report on detailed survey of coral habitat and communities and map showing general distribution of other benthic habitat types.</p> <p>.</p>	Design 1 month prior to dredging construction	DEC	<b>Completed</b>  This condition was met during the 2008 reporting period and no further action is required.
757:M6.11 Compliance Reporting	<p><b>Action</b> Conduct a comprehensive field survey, consistent with the approved Scope of Baseline Marine Habitat Survey document, and provide a report of the results to the Department of Environment and Conservation within twelve months following commencement of any marine works associated with the proposal.</p> <p><b>How</b> This report shall 1. contain spatially accurate (e.g. rectified and geographically referenced) maps showing the locations and spatial extent of the different marine habitat types and percentage cover of each component of their associated benthic communities including corals, macro algae, non-coral macro-invertebrates and seagrass; 2. record the existing hard and soft corals, macro-algae, non-coral benthic macro invertebrates, seagrass and demersal fish observed within the communities; 3. record the population structure, as size class frequency distributions, and other population statistics, such as recruitment, survival and growth, of key hard coral species; 4. evaluate baseline pre-development health of the benthic communities at representative survey sites; and 5. include data provided in an appropriate GIS data set format.</p> <p><b>Objective</b> To minimise impact of dredging on the marine environment.</p> <p><b>Evidence</b> Report on the results of the comprehensive field survey that is consistent with the Scope of Baseline Marine Habitat Survey document.</p>	Construction Within 12 months of commencement of dredging works	DEC	<b>Completed</b>  The final report to address specific requirements of Condition 6-11 was submitted to DEC on 21 November 2008 (WBPL ref: PLU/GOV/00154). DEC acknowledged receipt of the report on 25 November 2008 (DEC reference: DEC0652-04).
757:M6.12 Compliance Reporting	<p><b>Action</b> <i>Within three months following completion of the marine works, repeat the Comprehensive Field Survey required by condition 6-11, and submit a report on the results of that survey to the Department of Environment and Conservation. This will constitute the first Post-Dredging Marine Habitat Survey, reporting any changes which may have occurred between the Baseline Marine Habitat Survey and the first Post-Dredging Marine Habitat Survey.</i></p> <p><b>Objective</b> <i>To minimise impact of dredging on the marine environment.</i></p> <p><b>Evidence</b> <i>See 850:M6.12.</i></p>	Post-construction Within 3 months of dredging completion	DEC	<b>Not Applicable</b>  <b>Condition amended through section 46 of the EP Act. Refer to 850:M6:12 at the end of this table</b>
757:M6.13 Marine Impacts	<p><b>Action</b> Repeat the Post-Dredging Marine Habitat Survey referred to in condition 6-12, at the same time of the year annually for three years, or until such time, as determined by the Minister for the Environment on advice of the Department of Environment and Conservation and the Department of Fisheries.</p> <p><b>How</b> A Post-Dredging Marine Habitat Survey shall be conducted in accordance with the approved Scope of Baseline Habitat Survey.</p> <p><b>Objective</b> To minimise impact of dredging on the marine environment.</p> <p><b>Evidence</b> See 850:M6.13.</p>	Post-construction At the same time of the year annually for 3 years, or until such time as determined by the Minister for Environment	Minister for Environment	<b>Not Applicable</b>  <b>Condition amended through section 46 of the EP Act. Refer to 850:M6:13 at the end of this table</b>

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757:M6.14 Compliance Reporting	<p><b>Action</b> Within three months following completion of each of the surveys required by conditions 6-12 and 6-13, the proponent shall report the findings of each of the surveys to the Department of Environment and Conservation.</p> <p><b>Objective</b> To report progress of subsequent surveys.</p> <p><b>Evidence</b> See 850:M6.14.</p>	Post-construction Within 3 months of dredging completion and annually for a following 3 years	DEC	<p><b>Not Applicable</b></p> <p><b>Condition amended through section 46 of the EP Act. Refer to 850:M6:14 at the end of this table</b></p>
757:M7.1 Deepwater Marine Outfall	<p><b>Action</b> If a marine wastewater discharge is required by the proponent, the proponent shall construct the associated infrastructure so that wastewater is discharged into water of depth greater than 30 meters outside the Dampier Archipelago, unless otherwise determined by the CEO under Part V of the Act.</p> <p><b>How</b> A Marine Treated Wastewater Discharge Management Plan will be developed and the appropriate infrastructure constructed to accommodate wastewater discharge.</p> <p><b>Objective</b> To minimise the environmental impact associated with wastewater discharge.</p> <p><b>Evidence</b> DEC Works Approval - if Marine Wastewater discharge is required, evidence that wastewater discharge structure is discharging into water of depth greater than 30 metres.</p>	Overall	Minister for Environment	<p><b>Completed</b></p> <p>Works Approval W4466/2008/1 for the Pluto LNG Project effluent treatment plant was issued on 3 September 2009 which provides approval to Woodside to construct the effluent treatment plant and a tie-in from this facility to the Water Corporation's Multi-User Brine Reuse Line (MUBRL) for the purpose of disposing treated wastewater. The construction of the effluent treatment plant and the tie-in to the MUBRL is now complete.</p> <p>Commissioning of the effluent treatment plant was carried out in the 2011-2012 reporting period with discharges to the MUBRL managed in line with the approved Marine Treated Wastewater Discharge Management Plan (Refer 757:M7.2) and effluent treatment commissioning plans approved under Works Approval W4466/2008/1.</p>
757:M7.2 Deepwater Marine Outfall	<p><b>Action</b> Prior to construction of the wastewater treatment plant or the marine outfall, whichever is the sooner, the proponent, in consultation with the Department of Environment and Conservation, shall prepare a Marine Treated Wastewater Discharge Management Plan to the requirements of the Minister for the Environment on advice of the Environmental Protection Authority.</p> <p><b>How</b> Address the following: 1. determination of the effect of wastewater flow rate on the number of dilutions the diffuser is predicted to achieve within the zone of initial dilution at maximum flow rate; 2. setting of environmental values, environmental quality objectives and levels of ecological protection to be achieved around the outfall; 3. identification of a range of feasible and practical management options and the environmental quality indicators and associated "trigger" levels for the implementation of remedial, management and/or preventative actions to protect the water quality and the marine environment based on the guidelines and recommended approaches in ANZECC/ARMCANZ (2000); 4. Whole Effluent Toxicity (WET) testing of wastewater, consistent with ANZECC requirements, and addressing the items in schedule 5 (attached); 5. redesign and incorporation of a new diffuser, including timelines, in the event that the WET testing results show that the original wastewater diffuser is not achieving sufficient dilutions to meet a high level of ecological protection at the edge of the mixing zone; 6. verification of diffuser performance in terms of achieving the required number of initial dilutions under low energy/calm meteorological and sea-state conditions to achieve a high level of ecosystem protection (99% species protection) at the edge of the approved mixing zone; 7. A monitoring program to permit determination of whether the water quality objectives are being met; and 8. Protocols and schedules for reporting performance against the Environmental Quality Objectives using the environmental quality trigger levels.</p> <p><b>Objective</b> The objective of this Plan is to ensure that the discharge of treated wastewater is managed to achieve simultaneously the following Environmental Quality Objectives as described in the document, Pilbara Coastal Water Quality Consultation Outcomes: Environmental Values and Environmental Quality Objectives (Department of Environment, March 2006): Maintenance of ecosystem integrity with spatially-assigned levels of protection; Maintenance of aquatic life for human consumption assigned to all parts of the marine environment surrounding the ocean outlet; Maintenance of primary contact recreation values assigned to all parts of the marine environment surrounding the ocean outlet; Maintenance of secondary contact recreation values assigned to all parts of the marine environment surrounding the ocean outlet; Maintenance of aesthetic values assigned to all parts of the marine environment surrounding the ocean outlet; Maintenance of cultural and spiritual values assigned to all parts of the marine environment surrounding the ocean outlet; and Maintenance of Industrial Water Supply.</p> <p><b>Evidence</b> Marine Treated Wastewater Discharge Management Plan.</p>	Design	Minister for Environment EPA, DEC	<p><b>Completed</b></p> <p>The Marine Treated Wastewater Discharge Management Plan was approved by the DEC on 18 March 2009 (DEC reference: DEC 4776). Woodside submitted a revision to the plan for approval. The revision expanded on the operational monitoring and reporting regime to be implemented, provides further detail regarding the range of potential contingency arrangements that could be implemented, reflects the reporting and licensing processes outlined within the approved Commissioning Plan required by Works Approval W4466/2008/1, and incorporates the change of source supplying back-up potable water during periods where re-use is unable to meet the full needs of the LNG plant.</p> <p>OEPA approved the revised Marine Treated Wastewater Discharge Management Plan (2011) on 1 July 2011. This Plan addresses conditions 757:M7-2 to M7-4 and M7-8 to M7-13 and provides a summary of how each of Conditions 757:M7-1, M7-5, M7-6 and M7-7 have been addressed (completed under 18 March 2009 approved Plan).</p> <p>Whole Effluent Toxicity (WET) testing of wastewater, as detailed in the Management Plan, commenced in October 2012 upon reaching appropriate plant performance during commissioning. Results will be used to inform Licensing and further testing requirements. This testing falls outside of the reporting period for this ACR, and will be covered in more detail in the 2012-2013 report.</p>



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757:M7.3 Deepwater Marine Outfall	<p><b>Action</b> Implement the Marine Treated Wastewater Discharge Management Plan required by condition 7-2.</p> <p><b>Objective</b> To minimise environmental impacts and apply relevant technology to the project.</p> <p><b>Evidence</b> Details in Appendix 2 of the ACR.</p>	Operation	Minister for Environment	<p><b>In Progress</b></p> <p>Works Approval W4466/2008/1 for the Pluto LNG Project effluent treatment plant was issued on 3 September 2009 which provides approval to Woodside to construct the effluent treatment plant and a tie-in from this facility to the Water Corporation's Multi-User Brine Reuse Line (MUBRL) for the purpose of disposing treated wastewater. The construction of the effluent treatment plant and the tie-in to the MUBRL is now complete.</p> <p>Commissioning of the effluent treatment plant was carried out in the 2011-2012 reporting period with discharges to the MUBRL managed in line with the approved Marine Treated Wastewater Discharge Management Plan (Refer 757:M7.2) and effluent treatment commissioning plans approved under Works Approval W4466/2008/1.</p> <p>The approved Marine Treated Wastewater Discharge Management Plan (2011) was implemented in the reporting period, from commencement of discharge to the MUBRL. Discharges to the MUBRL commenced in October 2011 following successful commissioning testing.</p>
757:M7.4 Deepwater Marine Outfall	<p><b>Action</b> Make the Marine Treated Wastewater Discharge Management Plan required by condition 7-2 publicly available.</p> <p><b>How</b> Marine Treated Wastewater Discharge Management Plan to be made available in accordance with OEPA Post Assessment Guideline for Making Information Publicly Available (PAG 4) published August 2012.</p> <p><b>Objective</b> To ensure the public is kept informed.</p> <p><b>Evidence</b> Management Plan available on the Woodside website or upon request.</p>	Construction Construction	Minister for Environment	<p><b>Completed</b></p> <p>The revised Marine Treated Wastewater Discharge Management Plan is publicly available on the Woodside internet site: (<a href="http://www.woodside.com.au/Our-Business/Pluto/Sustainability/Pages/Environment.aspx">http://www.woodside.com.au/Our-Business/Pluto/Sustainability/Pages/Environment.aspx</a>)</p> <p>Any future revisions to the plan will be published on the Woodside internet site.</p>
757:M7.5 Deepwater Marine Outfall	<p><b>Action</b> Prior to submitting a Works Approval application for the wastewater treatment plant 1. characterise in detail the physical and chemical composition and flow rates of all wastewater streams within the site and, using the toxicity of mixtures principles, predict the theoretical toxicity of the combined wastewater after treatment; 2. Determine, for all contaminants and nutrients, the total annual loads of contaminants and nutrients in the wastewater discharge exiting the site; and 3. Determine, for normal and worst-case conditions, the concentrations of contaminants and nutrients (for agreed averaging periods) in the wastewater discharge exiting the site.</p> <p><b>Objective</b> To minimise the environmental impact associated with wastewater discharge.</p> <p><b>Evidence</b> Approval from DEC of MTWDMP.</p>	Design Prior to submitting a Works Approval application for the wastewater treatment plant	Minister for Environment	<p><b>Completed</b></p> <p>These aspects were covered in the Marine Treated Wastewater Discharge Management Plan, which was approved by the DEC on 18 March 2009 (DEC reference: DEC 4776). OEPA approved the revised Marine Treated Wastewater Discharge Management Plan (2011) on 1 July 2011.</p>
757:M7.6 Deepwater Marine Outfall	<p><b>Action</b> Prior to submitting a Works Approval application for the wastewater treatment plant, demonstrate that the wastewater discharge will meet "best practicable technology" and waste minimisation principles for contaminants and nutrients.</p> <p><b>How</b> A review of current Best Environmental Practice (BEP) will be conducted to ensure that the most up to date technology is being utilised. This review will be outlined in the Marine Treated Wastewater Discharge Management Plan.</p> <p><b>Objective</b> To demonstrate best practice in wastewater treatment and discharge.</p> <p><b>Evidence</b> Approval from DEC of MTWDMP, Works Approval granted from DEC.</p>	Design Prior to submitting a Works Approval Application for the Wastewater Treatment Plant.	Minister for Environment	<p><b>Completed</b></p> <p>These aspects were covered in the Marine Treated Wastewater Discharge Management Plan, which was approved by the DEC on 18 March 2009 (DEC reference: DEC 4776). OEPA approved the revised Treated Wastewater Management Plan (2011) on 1 July 2011.</p>
757:M7.7:1 Deepwater Marine Outfall	<p><b>Action</b> Prior to submitting a Works Approval application for the wastewater treatment plant, design, and subsequently operate, plant and equipment on the site such that: 1. the contaminant concentrations in the wastewater effluent from the site, just prior to entry to the wastewater discharge system, meet (in order of preference): the ANZECC/ARMCANZ (2000) 99% species protection level: or the ANZECC/ARMCANZ (2000) 99% species protection level at the edge of an approved mixing zone; 2. The concentrations of contaminants in the wastewater effluent which can potentially bio-accumulate/bio-concentrate meet the ANZECC/ARMCANZ (2000) 80% species protection trigger levels just prior to entry into the wastewater discharge system; and 3. Mass balances and inventories of toxicants can be maintained throughout the life of the plant so that their fate can be traced.</p> <p><b>How</b> The proponent shall demonstrate that the proposed discharge meets the Ministerial Condition 7-7 via modelling. This will be outlined in the Marine Treated Wastewater Discharge Management Plan.</p> <p><b>Objective</b> To minimise the environmental impact associated with wastewater discharge.</p> <p><b>Evidence</b> Approval from DEC of MTWDMP.</p>	Design	DEC	<p><b>Completed</b></p> <p>These aspects were covered in the Marine Treated Wastewater Discharge Management Plan, which was approved by the DEC on 18 March 2009 (DEC reference: DEC 4776). OEPA approved the revised Marine Treated Wastewater Discharge Management Plan (2011) on 1 July 2011.</p>

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757:M7.7.2 Deepwater Marine Outfall	<p><b>Action</b> Operate the Wastewater Treatment Plant such that: 1. the contaminant concentrations in the wastewater effluent from the site, just prior to entry to the wastewater discharge system, meet (in order of preference): the ANZECC/ARMCANZ (2000) 99% species protection level; or the ANZECC/ARMCANZ (2000) 99% species protection level at the edge of an approved mixing zone; 2. The concentrations of contaminants in the wastewater effluent which can potentially bio-accumulate/bio-concentrate meet the ANZECC/ARMCANZ (2000) 80% species protection trigger levels just prior to entry into the wastewater discharge system; and 3. Mass balances and inventories of toxicants can be maintained throughout the life of the plant so that their fate can be traced.</p> <p><b>Evidence</b> Details in Appendix 2 of the ACR.</p>	Operation	DEC	<p><b>In Progress</b></p> <p>Discharges to the MUBRL commenced in October 2011. Monitoring during start-up and commissioning has been conducted as detailed in Section 6.1 of the Marine Treated Wastewater Discharge Management Plan.</p> <p>The plant has been designed to reliably meet ANZECC/ARMCANZ (2000) 99% species protection levels at the edge of an agreed mixing zone, and 80% species protection level just prior to entry into the wastewater discharge system for all parameters (not restricted to those with the potential to bioaccumulate) against the level of dispersion and dilution achieved at the MUBRL diffuser location.</p> <p>Wastewater testing during the operational phase of the facilities (detailed in Section 6.2 of the Marine Treated Wastewater Discharge Management Plan) will enable mass balances and inventories of different species of chemical to be determined as required.</p>
757:M7.8 Compliance Reporting	<p><b>Action</b> Within three months following commissioning and stabilising of plant operations, conduct an analysis of effluent properties and contaminant concentrations, to an analytical limit of reporting agreed by the Department of Environment and Conservation, demonstrating that they are substantially consistent with predictions.</p> <p><b>How</b> A Report will be prepared on the analysis of effluent properties and contaminant concentrations in consultation with DEC.</p> <p><b>Objective</b> To demonstrate that Woodside wastewater concentrations are substantially consistent with predictions.</p> <p><b>Evidence</b> Effluent characterisation report.</p>	Operation Within 3 months following commissioning	DEC	<p><b>In Progress – Commissioning ongoing</b></p> <p>The Marine Treated Wastewater Discharge Management Plan details in Section 6.1 monitoring required during start-up and commissioning. During the reporting period the plant was considered to be in a commissioning state.</p> <p>The Effluent Treatment Plant Commissioning Plan (XA0000AR0875) also contains a schedule for monitoring following commissioning activities. This schedule states that analysis of effluent properties and contaminant concentrations (including WET Testing) will be conducted.</p> <p>Whole Effluent Toxicity (WET) testing of wastewater, as detailed in the Management Plan, was commenced in October 2012 upon reaching appropriate plant performance during commissioning. Results will be compared to predictions once they have become available, and reported to the DEC.</p>
757:M7.9 Deepwater Marine Outfall	<p><b>Action</b> Develop a Contingency Wastewater Management Plan which considers alternate options for wastewater disposal in the event that the Environmental Quality Objectives are not met as determined through Whole Effluent Toxicity testing, diffuser performance monitoring or environmental quality monitoring, to the requirements of the Minister for the Environment.</p> <p><b>How</b> Alternative waste management plan will be designed.</p> <p><b>Objective</b> To anticipate impacts and manage those which are unforeseen.</p> <p><b>Evidence</b> Contingency Wastewater Management Plan.</p>	Construction During Construction	Minister for Environment	<p><b>Completed</b></p> <p>The framework for the Contingency Wastewater Management Plan was included within the Marine Treated Wastewater Discharge Management Plan, which was approved by the DEC on 18 March 2009 (DEC reference: DEC 4776). Additional detail has been provided in the 2011 revision to the Marine Treated Wastewater Discharge Management Plan approved by the OEPA on 1 July 2011. Commissioning discharges and contingencies, prior to WET testing, are covered under the effluent treatment plant commissioning plan required as a condition of Works Approval W4466/2008/1 and approved by DEC.</p>
757:M7.10 Deepwater Marine Outfall	<p><b>Action</b> In the event that the treatment plant malfunctions or goes off-line, the proponent shall include within the Contingency Wastewater Management Plan required by condition 7-9 alternative options for wastewater disposal to the timing and other requirements of the Minister for the Environment.</p> <p><b>How</b> Practices will be changed to the methods of the Contingency Wastewater Management Plan.</p> <p><b>Objective</b> Preparation for contingency events.</p> <p><b>Evidence</b> Contingency Wastewater Management Plan.</p>	Construction During Construction	Minister for Environment	<p><b>Completed</b></p> <p>The Contingency Wastewater Management Plan forms part of the revised Marine Treated Wastewater Discharge Management Plan.</p> <p>OEPA approval of the revised Marine Treated Wastewater Discharge Management Plan was received 1 July 2011.</p>
757:M7.11 Deepwater Marine Outfall	<p><b>Action</b> In the event that the Environmental Quality Objectives are not being met, the proponent shall implement the Contingency Wastewater Management Plan required by condition 7-9.</p> <p><b>How</b> Action will be taken from Contingency Wastewater Management Plan.</p> <p><b>Objective</b> Preparation for contingency events.</p> <p><b>Evidence</b> Pluto LNG Project Ministerial Statement 757 Compliance Report - Report on alternate action to the DEC.</p>	Operation	Minister for Environment	<p><b>Ongoing</b></p> <p>The Wastewater Treatment Plant was operated in accordance with the Marine Treated Wastewater Discharge Management Plan and Contingency plan during the commissioning phase. No contingency measures were required to be implemented during the reporting period.</p>
757:M7.12 Deepwater Marine Outfall	<p><b>Action</b> Review and revise the Contingency Wastewater Management Plan required by condition 7-9, as and when directed by the CEO.</p> <p><b>Objective</b> Preparation for contingency events.</p> <p><b>Evidence</b> Revised Contingency Wastewater Management Plan (if required).</p>	Operation	DEC	<p><b>Ongoing</b></p> <p>Addressed in the revised 2011 Marine Treated Wastewater Discharge Management Plan</p> <p>OEPA approval of the revised 2011 Marine Treated Wastewater Discharge Management Plan was received on 1 July 2011.</p>

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757:M7.13 Deepwater Marine Outfall	<p><b>Action</b> Make any revisions of the Contingency Wastewater Management Plan, as required by condition 7-12, publicly available in a manner approved by the CEO.</p> <p><b>How</b> Revisions of the Contingency Wastewater Management Plan to be made available in accordance with OEPA Post Assessment Guideline for Making Information Publicly Available (PAG 4) published August 2012.</p> <p><b>Objective</b> To ensure that the public is kept informed.</p> <p><b>Evidence</b> Management Plan available on the Woodside website or upon request.</p>	Operation Ongoing	DEC	<p><b>Completed</b></p> <p>The Contingency Wastewater Management Plan forms part of the Marine Treated Wastewater Discharge Management Plan and is publically available on the Woodside internet site:  <a href="http://www.woodside.com.au/Our-Business/Pluto/Sustainability/Pages/Environment.aspx">http://www.woodside.com.au/Our-Business/Pluto/Sustainability/Pages/Environment.aspx</a></p> <p>Any future revisions to the plan will be published on the Woodside internet site.</p>
757:M8.1 Marine Quarantine	<p><b>Action</b> Prior to commencement of dredging, prepare and implement a Marine Quarantine Management Plan, to the requirements of the Minister for the Environment.</p> <p><b>Objective</b> To prevent marine pest introduction to the waters adjacent to the proposal.</p> <p><b>Evidence</b> Marine Quarantine Management Plan developed in consultation with DoF and DEC.</p>	Design Before dredging	Minister for Environment EPA	<p><b>Completed</b></p> <p>The Marine Quarantine Management Plan for the Construction Phase was approved on 21 November 2007.</p> <p>This plan was implemented for all dredge vessels and dredging related vessels and equipment associated with the Pluto LNG Project during the dredging program, which ceased on 21 May 2010.</p> <p>Refer to 757:M8:3 for details of proposed quarantine management during operations.</p>
757:M8.2 Marine Quarantine	<p><b>Action</b> Within 48 hours following entry of dredging equipment and/or other vessels associated with dredging into the Port of Dampier, the proponent shall: 1. for vessels originating from Ports outside of State waters, arrange for an inspection and clearance by an appropriately qualified marine scientist; 2. for vessels originating from Ports within State waters, provide evidence of; a) the vessel being fully cleaned of fouling organisms and sediments immediately prior to departure for the Port of Dampier; or b) inspection of the vessel at the point of departure for the Port of Dampier immediately prior to departure; or c) a risk assessment based on the history of the vessel, its characteristics and use during the implementation of the proposal, to the requirements of the Minister for the Environment on advice of the Environmental Protection Authority.</p> <p><b>Objective</b> To prevent marine pest introduction.</p> <p><b>Evidence</b> See condition 8-4.</p>	Construction	Minister for Environment DEC	<p><b>Completed</b></p> <p>Condition is not applicable during the reporting period as dredging was completed in a previous reporting period on 21 May 2010.</p> <p>ACR 2010 demonstrates that Woodside has conducted Marine Invasive Species Inspections in accordance with this condition.</p>
757:M8.3 Marine Quarantine	<p><b>Action</b> Prior to commencement of operations develop and implement an appropriate protocol for inspection and clearance of vessels during the operational phase of the proposal.</p> <p><b>Objective</b> To prevent marine pest introduction.</p> <p><b>Evidence</b> An Invasive Marine Species Management Plan developed in consultation with and approved by DoF and DEC.</p>	Prior to commencement of Operation	DEC	<p><b>Completed</b></p> <p>Woodside will manage marine quarantine during the operation of the Pluto LNG Project using Woodside's Corporate Invasive Marine Species Management Plan (IMSMP). Woodside submitted this plan to the DEC on 24 June 2010 with a revision submitted on the 12 October 2011.</p> <p>A letter was received from the OEPA 11 January 2012 approving the Woodside Invasive Marine Species Management Plan and its implementation at the Pluto facilities.</p> <p>Implementation of the Management Plan is ongoing.</p>
757:M8.4 Compliance Reporting	<p><b>Action</b> Prior to the commencement of dredging, the proponent shall report to the Department of Environment and Conservation on the results of the inspection referred to in Condition 8-2.</p> <p><b>How</b> Inspections of vessels originating from outside of State waters will be reported to DEC within 48h through the process specified in the Marine Quarantine Management Plan.</p> <p><b>Objective</b> To prevent marine pest introduction.</p> <p><b>Evidence</b> Inspection report.</p>	Design Prior to commencement of dredging	DEC DoF, AQIS	<p><b>Completed</b></p> <p>Please refer to 757:M8.2 and 2010 ACR.</p>
757:M8.5 Marine Quarantine	<p><b>Action</b> Manage any sediment or fouling organisms found as a consequence of the inspection required by condition 8-2, to the timing and other requirements of the Minister for the Environment.</p> <p><b>How</b> The Marine Pest Management Strategy (Contingency) specified in the Marine Quarantine Management Plan will be implemented in the event that a Marine Species of Concern is identified during an arrival inspection.</p> <p><b>Objective</b> Minimise environmental impacts associated with potential marine pest introduction.</p> <p><b>Evidence</b> Marine Pest Management Strategy specified in the Marine Quarantine Management Plan approved by DoF and DEC; Communication with DoF and DEC in the event a marine species of concern is identified. Infestation survey plans approved by DoF.</p>	Construction	Minister for Environment DoF	<p><b>Completed</b></p> <p>Please refer to 757:M8.2 and 2010 ACR.</p>

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757:M8.6 Marine Quarantine	<p><b>Action</b> If following the completion of dredging and disposal activities, the dredging equipment is to be transferred to another location within Western Australia's territorial waters, undertake an investigation employing an appropriately qualified marine scientist to identify the presence of/the potential for introduced marine pests, to the requirements of the Minister for the Environment.</p> <p><b>Objective</b> To prevent pest contamination of other Australian Ports.</p> <p><b>Evidence</b> If required, Investigation reports prepared by a suitably qualified marine scientist for all dredging related vessels and equipment that are to be transferred to another location within WA territorial waters.</p>	Construction	Minister for Environment DoF, AQIS	<p><b>Completed</b></p> <p>Please refer to 757:M8.2 and 2010 ACR.</p>
757:M8.7 Compliance Reporting	<p><b>Action</b> In the event that any introduced marine pests are detected (see condition 8-5), the proponent shall put in place a Marine Pests Management Strategy to ensure that introduced marine pests are not transferred to other locations within Western Australia's territorial waters, to the requirements of the Minister for the Environment. Note: In the preparation of the report required by condition 8-4, and in the development of any actions required by conditions 8-4 to 8-6, the Environmental Protection Authority expects that advice of the following agencies will be obtained: Department of Fisheries; and Australian Quarantine Inspection Service.</p> <p><b>Objective</b> Minimise environmental impacts associated with potential marine pest introduction to other locations in Western Australia's territorial waters.</p> <p><b>Evidence</b> If required, Marine Pest Management Strategy specified in the Marine Quarantine Management Plan.</p>	Construction	Minister for Environment DoF, AQIS	<p><b>Completed</b></p> <p>Please refer to 757:M8.2 and 2010 ACR.</p>
757:M8.8 Compliance Reporting	<p><b>Action</b> For the life of the project, notify the Department of Environment and Conservation, the Department of Fisheries and the Dampier Port Authority of any non-indigenous species detected in the waters adjacent to the project within 24 hours following detection.</p> <p><b>Objective</b> To keep DEC, DPA and DoF informed.</p> <p><b>Evidence</b> Notification reports of any non-indigenous species detected in waters adjacent to the project</p>	Overall Within 24 hours of detection	DEC, DoF, DPA	<p><b>Ongoing</b></p> <p>No introduced marine pests have been detected in waters adjacent to the Project to date.</p>
757:M8.9:1 Marine Quarantine	<p><b>Action</b> In the event that non-indigenous species introduced by the proponent are detected during dredging, the proponent shall take immediate action to prevent establishment and proliferation and shall take action to control and eradicate them to the requirements of the Minister for the Environment.</p> <p><b>Objective</b> To prevent infestation of pest species.</p> <p><b>Evidence</b> Immediate notifications to DoF, DEC and DPA; Report actions to prevent establishment and proliferation of non-indigenous species and action to control and eradicate them.</p>	Construction	Minister for Environment	<p><b>Completed</b></p> <p>No introduced marine pests were detected during the dredging program. Dredging was completed on 21 May 2010.</p>
757:M8.9:2 Marine Quarantine	<p><b>Action</b> In the event that non-indigenous species introduced by the proponent are detected during operation, the proponent shall take immediate action to prevent establishment and proliferation and shall take action to control and eradicate them to the requirements of the Minister for the Environment.</p> <p><b>Objective</b> To prevent infestation of pest species.</p> <p><b>Evidence</b> Immediate notifications to DoF, DEC and DPA. Report actions to prevent establishment and proliferation of non-indigenous species and action to control and eradicate them.</p>	Operation	Minister for Environment	<p><b>Not applicable for 2011-2012 reporting period</b></p> <p>No introduced marine pests have been detected in waters adjacent to the Project to date.</p>
757:M9.1 Turtle Management and Monitoring	<p><b>Action</b> Prepare a Turtle Management Plan.</p> <p><b>How</b> This Plan shall: 1. identify project-related stressors, causes of environmental impacts and potential consequences for marine turtles (including impact of noise, vibration, light overspill and glow, vessel strike, and changes to coastal processes); and 2. Identify and demonstrate the effectiveness of proposed management measures to mitigate [as defined in Environmental Protection Authority Guidance Statement 9] project-related impacts and consequences for marine turtles.</p> <p><b>Objective</b> To provide a management framework to enable the proponent to manage the project so as to detect and mitigate as necessary ["mitigate" as defined in Environmental Protection Authority Guidance Statement 9] any impact upon marine turtles from the project and to identify darkness strategies to reduce as far as possible lights or light glow interfering with nesting female turtles and hatchlings.</p> <p><b>Evidence</b> See Turtle Management Plan.</p>	Design Prior to commencement of works	Minister for Environment DEC	<p><b>Completed</b></p> <p>Letter dated 7 November 2008 (DOC68526), confirming that the Sea Turtle Management Plan was considered to be substantially complete. The letter also approves the Environmental Specification Lighting revision 2 October 2008, which is included as part of the Sea Turtle Management Plan.</p> <p>The Sea Turtle Management Plan has been revised for the operations phase and was submitted on 1 August 2011 to the OEPA for approval. A letter was received 30 March 2012 from the OEPA stating that '<i>the Sea Turtle Management Plan (July, 2011) is considered to satisfy the required protocol required by condition 9-1 of Ministerial Statement 757.</i></p>
757:M9.2 Turtle Management and Monitoring	<p><b>Action</b> Implement the Turtle Management Plan required by condition 9-1.</p> <p><b>How</b> Communicate Legal and Other Requirements to responsible parties (training); Implement an internal audit program involving six monthly audits and Verification Plans for application/review of contractors.</p> <p><b>Objective</b> To minimise environmental impacts and apply relevant technology to the project.</p> <p><b>Evidence</b> Internal audit schedule, audit criteria, and evidence of completion. DEMG minutes.</p>	Overall	Minister for Environment	<p><b>In Progress</b></p> <p>Woodside implemented the Sea Turtle Management Plan accordingly during the reporting period. Refer to Appendix 2 for specific requirements.</p>

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757:M9.3 Turtle Management and Monitoring	<p><b>Action</b> Make the Turtle Management Plan required by condition 9-1 publicly available in a manner approved by the CEO.</p> <p><b>How</b> Turtle Management Plan to be made available in accordance with OEPA Post Assessment Guideline for Making Information Publicly Available (PAG 4) published August 2012.</p> <p><b>Objective</b> To ensure public is kept informed.</p> <p><b>Evidence</b> Management Plan available on the Woodside website or upon request.</p>	Construction	DEC	<p><b>Completed</b></p> <p>The Sea Turtle Management Plan is publically available on the Woodside internet site: <a href="http://www.woodside.com.au/Our-Business/Pluto/Sustainability/Pages/Environment.aspx">http://www.woodside.com.au/Our-Business/Pluto/Sustainability/Pages/Environment.aspx</a></p> <p>Any future revisions to the plan will be published on the Woodside internet site.</p>
757:M9.4 Turtle Management and Monitoring	<p><b>Action</b> Review the Turtle Management Plan required by condition 9-1 annually to the requirements of the Minister for the Environment.</p> <p><b>Objective</b> To minimise environmental impacts on turtles.</p> <p><b>Evidence</b> Report outcomes of review in Annual compliance report.</p>	Overall Annually	Minister for Environment	<p><b>Ongoing</b></p> <p>A review of the Sea Turtle Management Plan has been undertaken and reflects the planned transition from construction to commissioning and operations in 2011/2012. The revised Sea Turtle Management Plan was submitted on 1 August 2011 to the OEPA for approval. A letter was received 30 March 2012 from the OEPA stating that '<i>the Sea Turtle Management Plan (July, 2011) is considered to satisfy the required protocol required by condition 9-1 of Ministerial Statement 757.</i>'</p> <p>A technical review audit of the Management Plan was conducted by Blue Planet Marine in March 2012. The audit found that "<i>Woodside Burrup Pty Ltd (Woodside) have not only met the minimum requirements, as summarised within the Pluto LNG Project's Public Environment Report/Public Review (Woodside 2006) and outlined in the Pluto LNG Project Sea Turtle Management Plan, they have undertaken additional steps to minimise and monitor impacts of the development on sea turtles and marine mammals within the region</i>"</p> <p>The technical review audit by Blue Planet Marine resulted in a number of recommendations for improvements to the Management Plan and the management regime, which will be taken into consideration for inclusion in the 2013 Management Plan review.</p>
757:M9.5 Compliance Reporting	<p><b>Action</b> Report any mortality of marine turtles or other threatened or specially protected marine fauna to the Department of Environment and Conservation within 24 hours following observation.</p> <p><b>Objective</b> To keep DEC informed on project progress and issues.</p> <p><b>Evidence</b> Incident reports as per Appendix D of the STMP.</p>	Overall Within 24 hours of an incident	DEC	<p><b>Not applicable for 2011-2012 reporting period</b></p> <p>No mortality of marine turtles has occurred as a result of the project.</p>
757:M10.1 Indigenous Heritage	<p><b>Action</b> Prior to ground-disturbing activities, prepare, in liaison with the Department of Indigenous Affairs, and submit to the Department of Environment and Conservation, a Cultural Heritage Management Plan.</p> <p><b>How</b> This Plan shall address: 1. the inclusion of cultural heritage awareness training in the workforce induction; 2. the signposting and fencing of nearby heritage sites to prevent unauthorised access; 3. the monitoring of ground-disturbing activities by an anthropologist/archaeologist and representatives of the Traditional Custodians; and 4. the retrieval and relocation of heritage material which lies within the disturbance footprint in consultation with the Traditional Custodians.</p> <p><b>Objective</b> To minimise impact on cultural heritage.</p> <p><b>Evidence</b> Cultural Heritage Management Plan. (CHMP) Correspondence seeking Department of Indigenous Affairs advice.</p>	Design ( Prior to ground-disturbing activities) Overall	DEC DIA	<p><b>Completed</b></p> <p>Numerous versions of the Pluto Aboriginal Cultural Heritage Management Plan (CHMP) have been prepared to meet requirements throughout the various stages of the project. Plans such as the <i>Aboriginal Cultural Heritage Management Plan - Pluto LNG Project Construction Phase</i>, <i>Cultural Heritage Management Plan – Industrial Site B</i> and <i>Cultural Heritage Management Plan - Industrial Site A Coastal Dunes</i> have now been surpassed by the <i>Pluto LNG Aboriginal Cultural Heritage Management Plan - Commissioning and Operations Phase (XA0000AG1002)</i> issued 15 April 2012.</p> <p>The updated <i>Pluto LNG Aboriginal Cultural Heritage Management Plan - Commissioning and Operations Phase</i> was reviewed by Woodside in consultation with the Traditional Custodian groups and DIA. On 18 December 2012 a letter was received from the DIA (in response to submission of the updated CHMP and Section 18 Site B 2012 Report) stating that "the report meets the requirements of Condition 6 of the Ministers Consent issued on 26 February 2007 for Woodside's Pluto LNG project on Industrial Site B". Condition 6 of the Consent requires a Cultural Heritage Management Plan.</p>
757:M10.2 Indigenous Heritage	<p><b>Action</b> Implement the Cultural Heritage Management Plan required by Condition 10-1.</p> <p><b>How</b> Implementation will take place through inductions and management of access to nondisturbance areas.</p> <p><b>Objective</b> To prevent unnecessary impacts.</p> <p><b>Evidence</b> Annual report to the DIA under Section 18 Permit for Site B, outlining if any site/object as been disturbed</p>	Overall	Minister for Environment	<p><b>Ongoing</b></p> <p>Under Condition 13 of the Minister for Indigenous Affairs' consent under Section 18 of the <i>Aboriginal Heritage Act 1972</i> (WA). Woodside must report to the registrar on the extent to which works have impacted sites or objects located on the land. This commitment is also a requirement in the <i>Pluto LNG Aboriginal Cultural Heritage Management Plan - Commissioning and Operations Phase</i> (Section 7. 'Background'), therefore annual reports under Section 18 consent to the DIA may be used to show effectiveness of implementation of the CHMP.</p> <p>On 23 May 2012 Woodside submitted to the DIA the Site B 2012 Report, as required by Condition 13 of the Minister for Indigenous Affairs' consent under Section 18 of the <i>Aboriginal Heritage Act 1972</i> (WA). On 18 December 2012 a letter was received from the DIA in response to submission of the Site B 2012 Report which indicated the Report met requirements.</p>



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757:M10.3 Indigenous Heritage	<p><b>Action</b> Make the Cultural Heritage Management Plan required by condition 10-1 publicly available.</p> <p><b>How</b> Cultural Heritage Management Plan to be made available in accordance with OEPA Post Assessment Guideline for Making Information Publicly Available (PAG 4) published August 2012.</p> <p><b>Objective</b> To ensure that the public is kept informed.</p> <p><b>Evidence</b> Management Plan available on the Woodside internet site or upon request.</p>	Construction	DEC	<p><b>Completed</b></p> <p>The Cultural Heritage Management Plan is publicly available on the Woodside internet site: <a href="http://www.woodside.com.au/Our-Business/Pluto/Sustainability/Pages/Cultural-Heritage.aspx">http://www.woodside.com.au/Our-Business/Pluto/Sustainability/Pages/Cultural-Heritage.aspx</a></p> <p>Any future revisions to the plan will be published on the Woodside internet site.</p>
757:M11.1 Compliance Reporting	<p><b>Action</b> Prior to submitting a Works Approval application for the plant, submit a detailed Front End Engineering Design Report demonstrating that the proposed works adopt best practice pollution control measures to minimise emissions from the plant.</p> <p><b>How</b> This report shall: 1. set out the base emissions rates for major sources for the plant and the design emission targets; and 2. address normal operations, shut-down, start-up, and equipment failure conditions.</p> <p><b>Objective</b> To ensure best practice is applied to minimising air emissions.</p> <p><b>Evidence</b> Front End Engineering Design Report.</p>	Design Prior to submitting a Works Approval Application for the plant.	Minister for Environment EPA	<p><b>Completed</b></p> <p>This condition was met during the 2008 reporting period and no further action is required.</p>
757:M11.2 Air Emissions	<p><b>Action</b> At least three months prior to commencement of operations prepare an Air Quality Management Plan.</p> <p><b>How</b> This plan shall include: 1. cumulative air quality modelling which uses data from the Front End Engineering Design Report and includes emissions from approved industrial sources at Cape Preston and Barrow Island; 2. proposed targets and standards; 3. an emissions monitoring programme, which includes nitrogen compounds, butene, toluene, ethylene, xylene, ozone, acrylene and hydrogen sulphide emissions from the plant; 4. an ambient air monitoring programme and a nitrogen deposition monitoring programme; and 5. annual reporting.</p> <p><b>Evidence</b> Air Quality Management Plan.</p>	Construction At least 3 months prior to the commencement of operations	Minister for Environment	<p><b>Completed</b></p> <p>The Air Quality Management Plan was submitted on 29 September 2010. The plan was approved by the OEPA on 10 October 2011 (EPA reference: A337424: OEPA2010/000682-1).</p>
757:M11.3 Air emissions	<p><b>Action</b> Implement the Air Quality Management Plan required by Condition 11-2.</p> <p><b>Objective</b> To minimise environmental impacts associated with air emissions.</p> <p><b>Evidence</b> Refer to Appendix 2 of the Annual Compliance Report.</p>	Operation	Minister for Environment	<p><b>Ongoing</b></p> <p>Operational aspects of the Air Quality Management Plan will be implemented from grant of an operating licence for Train 1 of the Pluto LNG Plant, issued by the DEC under Part V of the <i>Environmental Protection Act 1986</i> (WA).</p> <p>The Nitrogen Deposition Monitoring Study as detailed in the Management Plan has commenced, with data being collected for the period between the end of 2011 and the end of 2013. Five of the six monitors for the study are operational, with the final monitor location currently under negotiation. The original location proposed for this monitor is unsuitable due to its proximity to a NOx source.</p> <p>Section 10.1 <i>Ambient Air Monitoring Review</i> of the Management Plan outlines the commitment to a 12 month review of PM2.5 and BTX monitoring data, and a 24 month review of NOx and ozone monitoring data. On 3 October 2012, Golder Associates, appointed by Woodside, submitted a proposed review process methodology to the OEPA to meet the requirements of this commitment. On 16 October 2012 a response was received from OEPA stating the proposal had been reviewed and was considered to be appropriate. This review will be carried out in the next reporting period.</p>
757:M11.4 Air Emissions	<p><b>Action</b> Make the Air Quality Management Plan required by condition 11-2 publicly available.</p> <p><b>How</b> Air Quality Management Plan to be made available in accordance with OEPA Post Assessment Guideline for Making Information Publicly Available (PAG 4) published August 2012.</p> <p><b>Objective</b> To keep public informed.</p> <p><b>Evidence</b> Management Plan available on the Woodside internet site or upon request.</p>	Construction	DEC	<p><b>Completed</b></p> <p>The Air Quality Management Plan is publicly available on the Woodside internet site: <a href="http://www.woodside.com.au/Our-Business/Pluto/Sustainability/Pages/Environment.aspx">http://www.woodside.com.au/Our-Business/Pluto/Sustainability/Pages/Environment.aspx</a></p> <p>Any future revisions to the plan will be published on the Woodside internet site</p>

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757:M12.1 Greenhouse Gas Abatement	<p><b>Action</b> Develop a Greenhouse Gas Abatement Program: to ensure that the plant is designed and operated in a manner which achieves reductions in "greenhouse gas" emissions as far as practicable; to provide for ongoing 'greenhouse gas' emissions reductions over time; to ensure that through the use of best practice, the total net "greenhouse gas" emissions and/or "greenhouse gas" emissions per unit of product from the project are minimised; and to manage "greenhouse gas" emissions in accordance with the Framework Convention on Climate Change 1992, and consistent with the National Greenhouse Strategy.</p> <p><b>How</b> This Program shall include: 1. calculation of the "greenhouse gas" emissions associated with the proposal, as advised by the Environmental Protection Authority; Note: The current requirements of the Environmental Protection Authority are set out in: Minimising Greenhouse Gas Emissions, Guidance for the Assessment of Environmental Factors, No 12 published by the Environmental Protection Authority (October 2002). This document may be updated or replaced from time to time. 2. Specific measures to minimise the total net "greenhouse gas" emissions and/or the "greenhouse gas" emissions per unit of product associated with the proposal using a combination of "no regrets" and "beyond no regrets" measures; 3. The implementation and ongoing review of "greenhouse gas" offset strategies with such offsets to remain in place for the life of the proposal; 4. Estimation of the "greenhouse gas" efficiency of the project (per unit of product and/or other agreed performance indicators) and comparison with the efficiencies of other comparable projects producing a similar product, both within Australia and overseas. 5. Implementation of thermal efficiency design and operating goals consistent with the Australian Greenhouse Office Technical Efficiency guidelines in design and operational management. 6. Actions for the monitoring, regular auditing and annual reporting of "greenhouse gas" emissions and emission reduction strategies. 7. a target set by the proponent for the progressive reduction of total net "greenhouse gas" emissions and/or "greenhouse gas" emissions per unit of product and as a percentage of total emissions over time, and annual reporting of progress made in achieving this target. Consideration should be given to the use of renewable energy sources such as solar, wind or hydro power. 8. A program to achieve reduction in "greenhouse gas" emissions, consistent with the target referred to in (7) above. 9. entry, whether on a project-specific basis, company-wide arrangement or within an industrial grouping, as appropriate, into the Commonwealth Government's "Greenhouse Challenge" voluntary cooperative agreement program. Components of the agreement program include.: 1. an inventory of emissions; 2. opportunities for abating "greenhouse gas" emissions in the organisation; 3. a "greenhouse gas" mitigation action plan; 4. regular monitoring and reporting of performance; and 5. independent performance verification. 10. Review of practices and available technology; and 11. "Continuous improvement approach" so that advances in technology and potential operational improvements of plant performances are adopted. Note: In (2) above, the following definitions apply: 1. "no regrets" measures are those which can be implemented by a proponent and which are effectively cost-neutral and 2. "beyond no regrets" measures are those which can be implemented by a proponent and which involve additional costs which are not expected to be recovered.</p> <p><b>Objective</b> To minimise environmental impacts associated with greenhouse gas emissions.</p> <p><b>Evidence</b> Greenhouse Gas Abatement program.</p>	Design Prior to commencement of construction of plant	Minister for Environment EPA	<p><b>Completed</b></p> <p>This condition was initially met during the 2008 reporting period. A revision to the plan was submitted to OEPA for approval on 22 August 2011. A response from the OEPA on 17 January 2012 stated that "<i>The (revised) Greenhouse Gas Abatement Program satisfies the key components required by Condition 12-1 of Ministerial Statement 757.</i></p>
757:M12.2 Greenhouse Gas Abatement	<p><b>Action</b> For the life of the project, the proponent shall provide a greenhouse gas offset package which, as a minimum, offsets the reservoir carbon dioxide released to the atmosphere.</p> <p><b>Objective</b> To minimise Greenhouse gas emissions.</p> <p><b>Evidence</b> Formal agreement to provide offsets.</p>	Overall Ongoing	Minister for Environment	<p><b>In Progress</b></p> <p>Reservoir CO<sub>2</sub> offset obligations are currently being met via a contract with CO<sub>2</sub> Australia. This contract requires CO<sub>2</sub> Australia, on behalf of the Pluto LNG Project, to implement bio-sequestration of an equivalent quantity of CO<sub>2</sub> emissions to that released through venting of reservoir CO<sub>2</sub> during operations.</p> <p>Tree planting to meet these requirements commenced in 2008 and was completed during the 2012 planting season.</p>
757:M12.3 Greenhouse Gas Abatement	<p><b>Action</b> Implement the Greenhouse Gas Abatement Program required by condition 12-1.</p> <p><b>Objective</b> To minimise Greenhouse gas emissions.</p> <p><b>Evidence</b> Refer to Appendix 2 of the ACR.</p>	Construction Ongoing	Minister for Environment	<p><b>In Progress</b></p> <p>Completed for the 2010-2011 period of reporting (Construction Phase): The Greenhouse Gas Abatement Program details the design and operational aspects of the project related to minimisation of the overall greenhouse footprint. This includes design initiatives to minimise greenhouse emissions and contractual arrangements to offset emissions through other means. Reservoir CO<sub>2</sub> offset obligations and discharge means are detailed against M12.2. Requirements relating to selection of technology are incorporated into the design of the plant.</p> <p>Actions required by the Greenhouse Gas Abatement Program (Operations Phase) are planned to commence in the next reporting period following establishment of steady-state operations.</p>

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757:M12.4 Greenhouse Gas Abatement	<p><b>Action</b> Prior to commencement of construction of plant, make the Greenhouse Gas Abatement Program required by condition 12-1 publicly available in a manner approved by the CEO.</p> <p><b>How</b> Greenhouse Gas Abatement Program to be made available in accordance with OEPA Post Assessment Guideline for Making Information Publicly Available (PAG 4) published August 2012.</p> <p><b>Objective</b> To keep public informed.</p> <p><b>Evidence</b> Program available on the Woodside internet site or upon request.</p>	Design Ongoing	DEC	<p><b>Completed</b></p> <p>The Greenhouse Gas Abatement Program is publically available on the Woodside internet site: <a href="http://www.woodside.com.au/Our-Business/Pluto/Sustainability/Pages/Environment.aspx">http://www.woodside.com.au/Our-Business/Pluto/Sustainability/Pages/Environment.aspx</a></p> <p>Any future revisions to the plan will be published on the Woodside internet site.</p>
757:M13.1 Offsets	<p><b>Action</b> Implement the offset package set out in Schedule 6 (Ministerial Statement 757) to the requirements of the Minister for the Environment on advice of the Department of Environment and Conservation.</p> <p><b>Objective</b> To minimise environmental impacts associated with greenhouse gas emissions.</p> <p><b>Evidence</b> Details contained in ACR.</p>	Overall Ongoing	Minister for Environment DEC	<p><b>In Progress</b></p> <p>The Environmental Offsets Governance Committee (EOGC), represented by the DEC Deputy Director General and Pluto Corporate Affairs and Environment Manager, met</p> <ul style="list-style-type: none"> <li>- 14 December 2010</li> <li>- 5 April 2011</li> </ul> <p>An update e-mail was sent on the 16 August 2011 setting out the progress of the remaining offsets.</p> <p>Schedule 6 specifies 7 offset components. Status of each component is as follows:</p> <p><b>Offset A:</b> Site A Management and Monitoring  <b>Closed</b> - A review of the Site A Pluto Vegetation Management Plan has been undertaken to reflect the planned transition from construction to commissioning and operations in 2011/2012. Woodside resubmitted “<i>Site A Vegetation Management Plan</i>” on 21 October 2011 to the DEC for review and comment. This plan focuses on the management of weeds on Site A as a priority objective for the next 5 years (2012-2016).  On 6 February 2012 the DEC responded following a review of the revised plan, stating ‘<i>the revised plan and proposed outcomes have been confirmed as satisfactory by the Department of Environment and Conservation’s Pilbara Regional Leader Nature Conservation</i>’.</p> <p><b>Offset B:</b> Rehabilitation/Restoration Outside Lease</p> <ul style="list-style-type: none"> <li>- Discussions continued between the DEC and WEL to identify potential locations and work scopes for the implementation of this offset. Continued preference by both parties to undertake project on the Burrup Peninsula.</li> <li>- DEC has approved this Offset being temporarily put on hold until land access issues are resolved.</li> </ul> <p><b>Offset C:</b> Taxonomic studies of 37 Flora spp  <b>Closed</b> – Minister for Environment and Water has confirmed that Woodside has met its obligations and has satisfied the requirements for this Offset.</p> <p><b>Offset D:</b> Research and Monitoring Dampier Archipelago Marine Park  <b>Closed</b> – Minister for Environment and Water has confirmed that Woodside has met its obligations and has satisfied the requirements for this Offset.</p> <p><b>Offset E:</b> Managing Dredging Impacts  <b>Closed</b> – Minister for Environment and Water has confirmed that Woodside has met its obligations and has satisfied the requirements for this Offset.</p> <p><b>Offset F:</b> Genetic Work To Resolve Taxonomic Uncertainties – <i>Rhagada Sp</i> 12.  <b>Closed</b> – Minister for Environment and Water has confirmed that Woodside has met its obligations and has satisfied the requirements for this Offset.</p> <p><b>Offset G:</b> Ethno-Botanical Study  <b>Closed</b> - A letter to the General Manager of the OEPA was sent on the 7 October 2011 to seek closure of this Offset. On 7 February 2012 the OEPA responded with a letter to confirm that the Burrup Peninsula Ethno-Botanical Study (December 2009) ‘<i>meets the requirements of Schedule 6, Offset G of Statement 757</i>’</p>
757:M14.1 Decommissioning	<p><b>Action</b> Prepare a Preliminary Decommissioning Plan for approval by the CEO, which describes the framework and strategies to ensure that the site is suitable for future land uses, and provides: 1. the rationale for the siting and design of plant and infrastructure as relevant to environmental protection; 2. a conceptual description of the final landform at closure; 3. a plan for a care and maintenance phase; and 4. initial plans for the management of noxious materials.</p> <p><b>Objective</b> To outline a plan for decommissioning.</p> <p><b>Evidence</b> Preliminary Decommissioning Plan.</p>	Design Prior to submitting a Works Approval application for the plant.	DEC	<p><b>Completed</b></p> <p>A revised Preliminary Decommissioning Plan was submitted to the Office of the EPA on 8 January 2010 (PLU/GOV/00429) and subsequently approved on 1 February 2010 (DEC7069-02 - DOC 115002).</p>



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757:M14.2 Decommissioning	<p><b>Action</b> Submit a Final Decommissioning Plan, for approval of the CEO.</p> <p><b>How</b> The Final Decommissioning Plan shall set out procedures and measures for: 1. removal or, if appropriate, retention of plant and infrastructure agreed in consultation with relevant stakeholders; 2. rehabilitation of all disturbed areas to a standard suitable for the agreed new land use(s); and 3. identification of contaminated areas, including provision of evidence of notification and proposed management measures to relevant statutory authorities.</p> <p><b>Objective</b> To ensure that the site is suitable for future land uses.</p> <p><b>Evidence</b> Final Decommissioning Plan.</p>	<p>Operation</p> <p>At least 6 months before the date of closure or at a time approved by the CEO</p>	DEC	<p><b>Not applicable for 2011-2012 reporting period</b></p> <p>Final Decommissioning Plan shall be developed closer to decommissioning date.</p>
757:M14.3 Decommissioning	<p><b>Action</b> Implement the Final Decommissioning Plan required by condition 14-2 until such time as the Minister for the Environment determines, on advice of the CEO, that the proponent's decommissioning responsibilities have been fulfilled.</p> <p><b>Objective</b> To fulfil decommissioning responsibilities</p> <p><b>Evidence</b> Close-out report for the Final Decommissioning Plan.</p>	<p>Closure</p> <p>Until such time as the Minister for Environment determines on advice of the CEO that the proponent's decommissioning responsibilities have been fulfilled.</p>	Minister for Environment DEC	<p><b>Not applicable for 2011-2012 reporting period</b></p> <p>Final Decommissioning Plan shall be developed closer to decommissioning date.</p>
757:M14.4 Decommissioning	<p><b>Action</b> Make the Final Decommissioning Plan required by condition 14-2 publicly available in a manner approved by the CEO.</p> <p><b>How</b> Final Decommissioning Plan to be made available in accordance with OEPA Post Assessment Guideline for Making Information Publicly Available (PAG 4) published August 2012.</p> <p><b>Objective</b> To ensure the public is kept informed</p> <p><b>Evidence</b> Plan available on the Woodside internet site or upon request.</p>	Closure	DEC	<p><b>Not applicable for 2011-2012 reporting period</b></p> <p>Final Decommissioning Plan shall be developed closer to decommissioning date.</p>
850:M6.12 Compliance Reporting	<p><b>Action</b> Within three months following completion of the marine works, the proponent shall repeat the evaluation of the health of benthic communities, at the representative survey sites established by conditions 6-11(4) and 6-11(5), to the requirements of the OEPA.</p> <p><b>Objective</b> To minimise impact of dredging on the marine environment.</p> <p><b>Evidence</b> See M6.14.</p>	<p>Post-construction</p> <p>Within 3 months of dredging completion</p>	DEC	<p><b>Completed</b></p> <p>Marine works were completed in mid-July 2010 and post benthic habitat surveys commenced in mid-October 2010.</p>
850:M6.13 Marine Impacts	<p><b>Action</b> Repeat the survey required by condition 6-12, at the same time of the year annually for three years, or for a lesser number of years as determined by the CEO of the OEPA, on advice of the Department of Environment and Conservation and the Department of Fisheries.</p> <p><b>How</b> A Post-Dredging Marine Habitat Survey shall be undertaken in accordance with the approved Scope of Baseline Habitat Survey.</p> <p><b>Objective</b> To minimise impact of dredging on the marine environment.</p> <p><b>Evidence</b> See M6.14.</p>	<p>Post-construction</p> <p>At the same time of the year annually for 3 years, or until such time as determined by the Minister for Environment</p>	Minister for Environment	<p><b>Completed</b></p> <p>Marine works were completed in mid-July 2010 and post benthic habitat surveys commenced in mid-October 2010.</p> <p>The findings of the post benthic habitat surveys show no pattern of change consistent with a dredging impact.</p> <p>Based on the post benthic habitat survey results and comprehensive monitoring program during the marine works, advice from the DEC, Department of Fisheries and OEPA is that further post dredging surveys under Condition 6-13 are no longer required.</p> <p>The General Manager of the OEPA has acknowledged that this condition has been met and future surveys are no longer required; correspondence received 8 September 2011 (OEPA2011/000104).</p>
850:M6.14 Compliance Reporting	<p><b>Action</b> Within three months following completion of each of the surveys required by conditions 6-12 and 6-13, the proponent shall report the findings of each of the surveys to the OEPA and the Department of Environment and Conservation.</p> <p><b>Objective</b> To report progress of subsequent surveys.</p> <p><b>Evidence</b> 1) Findings of Post-Dredging Benthic Marine Habitat Survey initially at least 3 months following completion of marine works, then 2) Within three months following completion of each of the surveys required under condition 6-13.</p>	<p>Post-construction</p> <p>Within 3 months of dredging completion and annually for a following 3 years</p>	DEC	<p><b>Completed</b></p> <p>The post benthic habitat survey results were submitted to DEC, Department of Fisheries and the OEPA as required by this condition.</p>

### **3. CONCLUSION**

The Pluto LNG Project has complied with those Ministerial Conditions relevant to the 2012 reporting period (October 2011 to October 2012).

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**Appendix 1 – Pluto LNG Project Construction Photo Plates.**

Construction commenced on 15 October 2007. The Proposal has been implemented as required by Ministerial Statement 757. Photos have been provided of site construction activities and significant assets / milestones.

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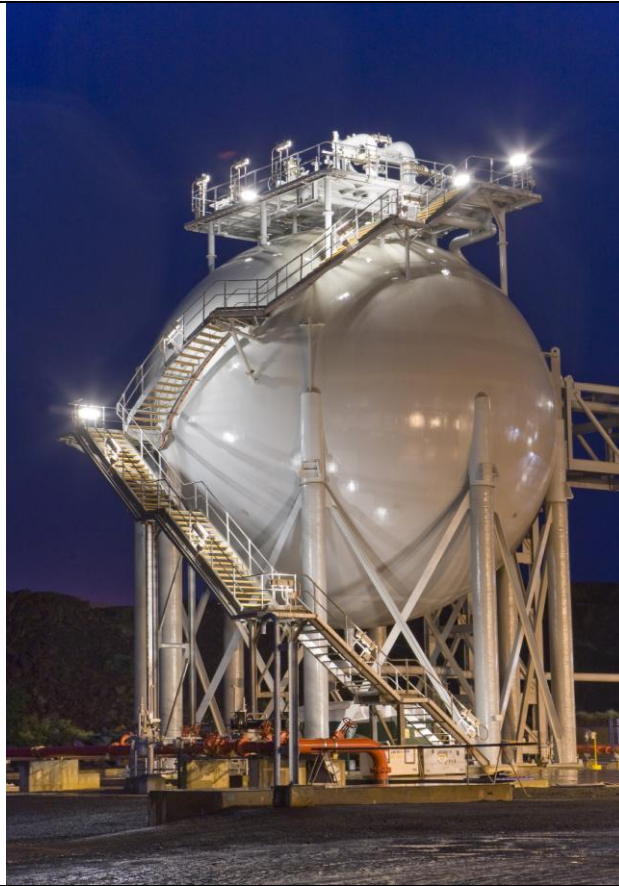
**Plate 1:** Pluto LNG Park, June 2011



**Plate 2:** Site A and Site B Pluto LNG Park, March 2011.



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**Plate 3:** Site B Propane Refrigerant Storage Sphere



**Plate 4:** Site B Acid Gas Removal Unit



**Plate 5:** First cargo of Pluto LNG sets sail for Japan aboard Woodside Donaldson, May 2012



**Plate 6:** Loading jetty, Pluto LNG Plant

## Appendix 2 – Pluto LNG Project Management Plan Key Actions

Woodside has complied with the key actions contained within the Environmental Management Plans and programmes required by Ministerial Statement 757. Key actions from each management plan or program are outlined below. Evidence of compliance has also been provided.

Key Management Action	Source Ref/ Chap	Status / Evidence
<b>Marine Treated Wastewater Discharge Management Plan (Condition 7-2)</b> (Rev 0, July 2011 - XA0000AH0029)		
Review Management Plan annually or as required – triggers for review include a significant change to the wastewater system, results from WET testing and Water Corporation analysis or at the request of the DEC.  Submit revised plan to DEC and DSEWPac.	1.4	<b>Completed.</b> Plan revised most recently in July 2011. OEPA approved the revised Marine Treated Wastewater Discharge Management Plan (2011) on 1 July 2011. This Plan addresses conditions 757:M7-2 to M7-4 and M7-8 to M7-13 and provides a summary of how each of Conditions 757:M7-1, M7-5, M7-6 and M7-7 have been addressed (completed under 18 March 2009 approved Plan).  The revised plan was approved by SEWPaC on 6 September 2011, and submitted to DEC 14 July 2011.  No changes to wastewater management have occurred to trigger further revision. Inaugural WET testing results have not yet become available.
Monitoring during start-up and commissioning of effluent treatment plant as detailed in the <i>Pluto LNG Project Effluent Treatment Plant Commissioning Plan, Woodside Doc. XA0000AR0875</i> approved by the DEC under Works Approval W4466/2008/1.	6.1	<b>In progress.</b> Monitoring for discharges during commissioning and start-up phase has commenced in line with Works Approval W4466/2008/1. Results are shared with DEC through the stages of plant commissioning and start-up.
Ongoing monitoring of water quality as per Table 6.1 of the Management Plan, including installed analysers and field laboratory tests.	6.2	<b>Not yet applicable.</b> To be implemented upon receipt of Licence under Part V of the <i>Environmental Protection Act 1986 (WA)</i> .  Note: Routine and regular monitoring of discharges during commissioning and start-up phase closely mirrors analysis methodology outlined in Section 6.2.
Amend table 6.1 if required, depending on results from Whole Effluent Toxicity testing. To be managed as part of Licensing process with Department of Environment and Conservation.	6.2	<b>Not applicable during the reporting period.</b> Whole Effluent Toxicity sampling carried during October 2012 following commissioning and stabilisation of the Effluent Treatment Plant. Technical reporting including results and analysis are expected to be provided to WEL in early 2013.



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<p>Whole Effluent Toxicity (WET) testing to be carried out on treated water from final inspection tanks in accordance with ANZECC/ARMCANZ (2000).</p> <p>Initial WET test to be conducted within three months following commissioning &amp; stabilisation of the ETP as per the <i>Pluto LNG Project Effluent Treatment Plant Commissioning Plan</i>.</p> <p>Ongoing WET testing within 1 month following the anniversary of the initial WET test, annually, or immediately (within 2 months) following any significant, sustained increase in the levels of contaminants of concern within treated wastewater.</p>	6.4	<p><b>In Progress</b></p> <p>The Marine Treated Wastewater Discharge Management Plan details in Section 6.1 monitoring required during start-up and commissioning. During the reporting period the plant was considered to be in a commissioning state.</p> <p>Whole Effluent Toxicity (WET) testing of wastewater, as detailed in the Management Plan, was commenced in October 2012 (2012/2013 reporting period) upon reaching appropriate plant performance during commissioning. Results will be compared to predictions once they have become available, and reported to the DEC.</p>
<p>Commissioning Compliance Report to be completed as part of an application for a Part V Licence under the <i>Environmental Protection Act 1986</i> (WA). Reporting will be in accordance with <i>Pluto LNG Project Effluent Treatment Plant Commissioning Plan</i>.</p>	7.1	<p><b>Not yet applicable.</b> To be prepared at the completion of start-up and commissioning period and inaugural WET testing.</p>
<p>Operating performance data to be provided to DEC (Manager, Pilbara Region) within an Annual Licence Report.</p>	7.1	<p><b>Not yet applicable.</b> To be included in Annual Licence Report as required by Part V licence which has not yet been issued.</p>
<p>Notification of DEC where effluent is discharged to ocean from the MUBRL not in accordance with either the approved discharge specifications or the Contingency Wastewater Management Plan (detailed in Section 8).</p>	7.3	<p><b>In progress.</b> Reporting during the start-up and commissioning phase has occurred in accordance with Pilbara Regional DEC approved Pluto LNG Project Effluent Treatment Plant Commissioning Plan, Woodside Doc. XA0000AR0875. Regular updates are provided to the DEC during the commissioning and start-up phase in accordance with the plan.</p> <p>No instances of effluent not meeting the approved discharge management requirements during 2011-2012 reporting period.</p>
<p>Implement contingency management options in Section 8.1 of the Management Plan in the event that effluent in the final inspection tanks does not meet the approved discharge specification for whatever reason.</p>	8.1	<p><b>Not applicable.</b> No instances of effluent not meeting the approved discharge management requirements during 2011-2012 reporting period.</p>

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<b>Dredge Impact Management Plan (Condition 6-6)</b>		
<b>Coral Condition Assessments</b>		
Refer to 2010 ACR for details.		<b>Completed.</b> Dredging ceased on 21 May 2010. Results were presented in the ACR 2010.
<b>Water Quality and Sediment Condition Assessments</b>		
Refer to 2010 ACR for details.		<b>Completed.</b> Dredging ceased on 21 May 2010. Results were presented in the ACR 2010.
<b>BEP Techniques</b>		
Refer to 2010 ACR for details.		<b>Completed.</b> Dredging ceased on 21 May 2010. Results were presented in the ACR 2010.
<b>Marine Quarantine Management Plan (Condition 8-1)</b>		
Refer to 2010 ACR for details.		<b>Completed.</b> Dredging ceased on 21 May 2010. Results were presented in the ACR 2010.
<b>Sea Turtle Management Plan (Condition 9-2) (Rev 0, June 2011 – XB0005AH0006)</b>		
OS 1 – Implement the existing Pluto Operational Environmental Lighting Specification	Table 8	<b>Completed.</b> There have been no reported incidences of adult or hatchling sea turtles being disoriented by light, found to be emitted by Woodside.  Requirements for lighting to reduce impacts on Holden Beach are outlined in Table 3.2 'Light Management Strategies' in the Operational Environmental Lighting Specification (XA0005SH0003).

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OS 1 – Audits of lighting during operations against the Operational Lighting Protocol (Environmental Specification Lighting XA0005SH0003) shall be conducted during the first turtle nesting season of operations. Additional audits shall be conducted every 5 years during the operational life of the Pluto Offshore Facility.	Table 8	<p><b>Completed.</b></p> <p>Blue Planet Marine were commissioned by Woodside to conduct a technical review and audit of the operational lighting and turtle nesting monitoring in February 2012. <i>“The lighting audit and assessment of the turtle monitoring activities determined that... Woodside are currently doing all that is reasonably practicable to minimise and monitor potential impacts from the development.”</i></p>
OS 2 – In the event of a hydrocarbon spill, management measures contained within the Woodside Dampier Sub-basin Oil Spill Contingency Plan shall be implemented.	Table 8	<p><b>Not applicable.</b> No hydrocarbon spill during the reporting year.</p>
OS 3 – Implement Waste Management Plan & Marine Discharge Management Plan (water quality to meet ANZECC / ARMCANZ (2000)).	Table 8	<p><b>In progress.</b></p> <p>Relevant management plans currently being implemented.</p>
OS 4 – Access to Holden Beach is restricted to key personnel.	Table 8	<p><b>Completed.</b></p> <p>Access to Holden Beach through the Woodside lease is protected by a fence which surrounds the Pluto LNG facilities, and restricts access through locked and security controlled gates. Procedural controls are also in place via the Heritage and disturbance footprint approval system (refer to the Cultural Heritage Management Plan for details).</p> <p>To ensure access by key personnel only, a work permit system is also in place. Access to the beach by sea is restricted by a Dampier Port Authority Boating Safety Exclusion Zone: <a href="http://www.dpa.wa.gov.au/Boating-Safety.aspx">http://www.dpa.wa.gov.au/Boating-Safety.aspx</a></p>
OS 4 – No vehicle access is permitted on the beach, with protocols in place for human movement along the beach to avoid nest disturbance and visual movement of human activity to approaching sea turtles.	Table 8	<p><b>Completed.</b></p> <p>See evidence listed above.</p>
OS 5 – Evaluate future timeframes of maintenance dredging to avoid coinciding with turtle nesting and breeding season. Refer to management plan for further actions regarding dredging and soil disposal.	Table 8	<p><b>Not applicable.</b></p> <p>No dredging or spoil disposal activities during the reporting year.</p>
CS1 – CS5 – Management measures for future construction.	Table 8	<p><b>Not applicable.</b></p> <p>No additional construction activities occurred during the reporting year.</p>

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Monitoring at Holden Beach – to be undertaken for five years from Pluto Foundation Project start-up until 2016 i.e. once a week from 1 <sup>st</sup> September to 1 <sup>st</sup> May or more frequently if successful nesting event is identified.	5.1	<b>In progress.</b>  Monitoring logs are maintained detailing when observations have taken place and the outcomes of these.
Reporting – Turtle observation data will be compiled by the Woodside onsite Environmental Advisor and reports sent on a yearly basis, within 1 month of the end of the turtle nesting season to the DEC and DSEWPaC.  Reporting of any incident that involves the injury or mortality of a sea turtle or marine mammal during construction and operation will be reported – refer to the Management Plan for details.	6.1	<b>In progress.</b>  Annual reports are submitted as required.
<b>Air Quality Management Plan (Condition 11-2) (Rev 2, December 2011 – X0000AH0002)</b>		
Complete testing as detailed in the Stack Emissions Test Plan required under Works Approval W4444/2008/1 during plant commissioning.  Results from the implementation of this plan to be provided to DEC within a compliance document required under Condition 2 of the Works Approval prior to plant Licensing.	5	<b>Not yet applicable during this reporting period.</b> Point source emissions sampling is commencing during November/December 2012 as per the <i>Pluto Commissioning Phase - Onshore Stack Emission Test Plan</i> in accordance with Works Approval W4444/2008/1.
Point Source Emissions Monitoring on gas turbines and RTO, quarterly in first year and then annually thereafter.	7.1	<b>Not yet applicable.</b> To be implemented following commissioning testing and issuing of Part V Licence.
Report summarising results of point source emissions from stack sampling to be provided to DEC regional office annually – as required under Part V Licence.	7.1	<b>Not yet applicable.</b> To be included in Annual Licence Report as required by Part V licence which has not yet been issued.
Smoke from flaring produced during operations to be estimated, recorded and reported as required in the Management Plan and Part V Licence once issued.	7.2	<b>Not yet applicable.</b> To be implemented following issuing of Part V Licence.  Woodside have been in regular communications with the local Department of Environment and Conservation during commissioning and start-up with regards to smoke emissions and flaring. These activities have also been managed under the Works Approval requirements for management of air emissions during this phase.  Upon issue of a Part V licence it is anticipated that air emissions reporting requirements will be further formalised for the operations phase.

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Woodside will notify the DEC Regional Manager of regenerative thermal oxidiser (RTO) outages as detailed in the Management Plan, and report these outages in accordance with the Part V Licence once issued.	7.3	<b>Not yet applicable.</b> Operational aspects of the Air Quality Management Plan will be implemented from grant of an operating licence for Train 1 of the Pluto LNG Plant, issued by the DEC under Part V of the <i>Environmental Protection Act 1986</i> (WA).
Implement the Pluto program of ambient air monitoring	8	<p><b>In progress.</b></p> <p>Operational aspects of the Air Quality Management Plan will be implemented from grant of an operating licence for Train 1 of the Pluto LNG Plant, issued by the DEC under Part V of the <i>Environment Protection Act 1986</i> (WA).</p> <p>Ambient air monitoring for parameters specified in Table 8-2 of the Management Plan has commenced, including Benzene, Toluene, Xylene (BTX) and PM2.5. Quarterly reports are received by Woodside from the monitoring service provider detailing monitoring results.</p> <p>The Nitrogen Deposition Monitoring Study as detailed in the Management Plan has commenced, with data being collected for the period between the end of 2011 and the end of 2013. Five of the six monitors for the study are operational, with the final monitor location currently under negotiation. The original location proposed for this monitor is unsuitable due to its proximity to a NOx source.</p>
All monitoring stations will be checked and maintained as per the Ambient Air Monitoring Programme: Maintenance and Breakdown Response Plan.	8.3	<b>In progress.</b> Actions to ensure this requirement is met are currently being implemented. Procedural documentation relating to equipment maintenance is managed by the ambient air contractor.
<p>Woodside will implement a nitrogen deposition monitoring programme for a period of 24 months of data collection between end 2011 and end 2013. Monthly samples of TSP and NO2 will be collected and weekly size resolved particulate samples will be collected at one location for three weeks during the 2012-2013 calendar years.</p> <p>Upon completion of the data collection phase, a report will be prepared and provided to EPA by 1 July 2014.</p>	9.2	<p><b>In progress.</b> Data collection currently being carried out.</p> <p>Five of the six monitors for the study are operational, with the final monitor location currently under negotiation. The original location proposed for this monitor is unsuitable due to its proximity to a NOx source.</p>

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Regular review of ongoing emissions monitoring and ambient air monitoring programs. Results will be compared to previously completed sampling and monitoring results and risk/impact assessments.  If actual emission levels are found to be significantly higher than predicted, this difference will be communicated concurrent with Part V Licence requirements.	10	<b>Not yet applicable.</b> To be implemented concurrently with Part V Licence application.
Ambient air monitoring review – 12 month review of PM2.5 and BTX monitoring data and 24 month review of NOx and ozone monitoring data using independent peer reviewer.  12 month review period 1 Jan 2012 – 31 Dec 2012. 24 month review period 1 Jan 2012 – 31 Dec 2013.  Decision to be made on continuation of monitoring following review periods.	10.1	<b>In progress.</b>  On 3 October 2012, Golder Associates, appointed by Woodside, submitted a proposed review process methodology to the OEPA to meet the requirements of this commitment. On 16 October 2012 a response was received from OEPA stating the proposal had been reviewed and was considered to be appropriate.
Following the 24 month nitrogen deposition monitoring period a review of the data will be conducted.	10.2	<b>Not yet applicable.</b> To be conducted following end of nitrogen deposition monitoring period.
<b>Greenhouse Gas Abatement Program (Condition 12-2) (Rev 2, July 2011 – XA0005AH0010)</b>		
Offset reservoir CO <sub>2</sub> emissions for the life of the project using allocation from the Woodside market abatement portfolio, to meet the environmental approval abatement conditions.	9.1	<b>In progress.</b> A contract with CO2 Australia to bio-sequester carbon dioxide is in place as the mechanism by which the Pluto LNG Project will discharge offset obligations. Refer to 757:M12.2 in the earlier content of this report.
Reporting in accordance with the <i>National Greenhouse and Energy Reporting Act 2007</i> (Cth).	10.4	<b>In progress.</b> Reporting occurs annually as required.
Greenhouse Gas Improvement Plan Action 1 – Monitor atmospheric emissions, energy consumption and LNG production.	Table 11-1	<b>Not yet applicable: steady state not yet achieved.</b> Establish baseline emission estimates and greenhouse intensity – to be completed during first year of steady state operations.
Greenhouse Gas Improvement Plan Action 2 – Undertake a Leak Detection and Repair Program.	Table 11-1	<b>Not yet applicable: steady state not yet achieved.</b> Recommendations for minimising leaks – to be completed during first year of steady state operations.
Greenhouse Gas Improvement Plan Action 3 – Undertake a Flare Gas Recovery Study.	Table 11-1	<b>Not yet applicable: steady state not yet achieved –</b> Recommendations for gas recovery – to be completed during second year of steady state operations.

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Greenhouse Gas Improvement Plan Action 4 – Undertake an energy efficiency review of the plant.	Table 11-1	<b>Not yet applicable: steady state not yet achieved</b> – Establish a revised (reduction) target for greenhouse intensity and make recommendations for improving energy efficiency – to be completed within 18 months of steady state operations
Greenhouse Gas Improvement Plan Action 5 – Identify energy efficiency gains and improved greenhouse emissions intensity by integrating systems for future expansion.	Table 11-1	<b>Not yet applicable: steady state not yet achieved</b> - Revised cumulative emissions estimates and greenhouse intensity – to be completed in parallel with Pluto expansion plans
Greenhouse Gas Improvement Plan Action 6 – Continue to monitor market abatement opportunities.	Table 11-1	<b>Not yet applicable: steady state not yet achieved</b> – Understanding of market offset opportunities for business evaluation – to be completed within 18 months of steady state operations
Greenhouse Gas Improvement Plan Action 7 – Review Greenhouse Gas Improvement Plan and incorporate any identified actions.	Table 11-1	<b>Not yet applicable: steady state not yet achieved</b> – Annual review and incorporation of identified initiatives where appropriate – to be completed around the anniversary of steady state operations, annually
Greenhouse Gas Improvement Plan Action 8 – Review and update the Greenhouse Gas Abatement Program.	Table 11-1	<b>Not yet applicable: steady state not yet achieved</b> – Updated Greenhouse Gas Abatement Program – to be completed 5 years from steady state operations, or prior to commissioning of new trains.
<b>Woodside Energy Limited Invasive Marine Species Management Plan (Condition 8-3) (Rev 2, October 2011 – A3000AH4345570)</b>		
Risk Assessment Process detailed in Section 4 of the Management Plan is to be applied to all vessels, rigs and immersible equipment under Woodside contract that plan to enter and operate within the identified Invasive Marine Species Management Area (IMSMA), other than those exceptions identified in Section 4.1 of the Management Plan.	4	<b>Completed as required.</b>  The Invasive Marine Species Management Plan is implemented for Pluto vessel operations, including provision of Tankers and Carrier Guidelines during vessel contracting processes. Where required by the plan, risk assessments (VRASS) are carried out for support vessels to prevent the introduction of invasive species.  The Invasive Species Management Plan is implemented for Pluto vessel operations
Ensure that management options following the risk assessment process comply with Section 5.1 of the Management Plan	5	<b>Completed as required.</b> Management options implemented following the risk assessment process may include information confirmation, application of the limit of three entrants into the IMSMA, treatment of vessel internal seawater systems or inspection (for example).

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<b>Preliminary Decommissioning Plan</b>		
Ensure a preliminary decommissioning plan is approved, in accordance with the requirements of condition 14-1.		A revised preliminary decommissioning plan was submitted to DEC for approval on 8 January 2010 and was approved on 1 February 2010. There were no actions undertaken relating to decommissioning during the reporting period.
<b>Final Decommissioning Plan</b>		
Not applicable at this stage. The Final Decommissioning Plan will be developed closer to decommissioning date. Key actions to satisfy this commitment will be identified once plan has been approved.		NA

*\* Note: Wording of actions here may not be representative of the exact wording in the relevant management plan*