



Pluto LNG Project – Ministerial Statement 757 as amended by Ministerial Statement 850 Annual Compliance Report 2011

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

Date: 21 December 2011

Status: Final

Document Number: DRIMS 7688396

Pluto LNG Project Ministerial Statement 757 as amended by Ministerial Statement 850 Annual Compliance Report 2011

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. Construction works for the Pluto LNG Project commenced on 15 October 2007, following receipt of the Commonwealth Decision Approval. This report meets the annual reporting requirements of Condition 4.1 of Ministerial Statement 757 and covers a reporting period of October 2010 to October 2011.

During the reporting period, construction of the Pluto LNG Project has progressed significantly. Combined with the other activities that make up the full project, the overall progress of the project is more than 95% complete. The status of the components covered by Ministerial Statement 757 at the end of the reporting period is as follows:

- Pluto Site B (commissioning underway) – Approaching mechanical completion and several elements ready to be commissioned for operations;
- Pluto Site A – approaching mechanical completion and several elements ready to be commissioned for operations;
- Operational site access and entrance roadway cleared and under construction;
- State waters section of the 36 inch trunkline – pipeline stabilisation works (rock dumping and sand backfill) were completed on 22 April 2010 and the pipe is pressurised with domestic gas;
- LNG and condensate jetty – mechanically complete and ready for commissioning;
- Shipping channel dredging – successfully completed on 21 May 2010.

1.1 STRUCTURE OF THIS DOCUMENT

Section 2 contains the relevant conditions, actions taken and evidence produced to demonstrate that the conditions have been met. Evidence for each of the conditions has been presented in Section 2 and the appendices (where relevant). Photographic evidence of compliance against Schedule 1 of the approval is 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 2010 – October 2011
757:M1.1 Proposal Implementation	<p>Action 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>Objective To minimise environmental impact of the project.</p> <p>Evidence Confirmed in Pluto LNG Project Ministerial Statement 757 Compliance Report.</p>	Overall Ongoing	Minister for Environment	<p>In Progress</p> <p>The Proposal is being implemented as documented in Schedule 1.</p> <p>Construction commenced on 15 October 2007 and is currently in the final stages.</p> <p>Photos have been provided of site construction activities throughout 2011 in Appendix 1.</p>
757:M2.1 Proponent Nomination and Contact Details	<p>Action 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>Objective To ensure legal responsibility for the project rests with a nominated proponent.</p> <p>Evidence Confirmed in Pluto LNG Project Ministerial Statement 757 Compliance Report.</p>	Overall Ongoing	Minister for Environment	<p>In Progress</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>Action 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>How In the event of change in address, notify DEC within 30 days of change.</p> <p>Objective To ensure that the DEC is able to maintain contact with the proponent</p> <p>Evidence Details of change of name/and or address.</p>	Overall Ongoing	DEC	<p>Not applicable for 2010-2011 reporting period</p> <p>Name and address of proponent remains the same as original application.</p>
757:M3.1 Time Limit of Authorisation	<p>Action The proposal must be substantially commenced within 5 years of the date of publication of this statement.</p> <p>Objective To ensure that the project is implemented using the most recent information and technology available.</p> <p>Evidence Pluto LNG Project Ministerial Statement 757 Compliance Report.</p>	Overall Within 5 years	Minister for Environment	<p>Completed</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>Action 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>Objective To ensure that the project is implemented using the most recent information and technology available.</p> <p>Evidence Confirm in Pluto LNG Project Ministerial Statement 757 Compliance Report.</p>	Overall Within 5 years	Minister for Environment	<p>Completed</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>Action 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>Objective To provide evidence that the proposal is being implemented as approved, and the relevant conditions and commitments are being met.</p> <p>Evidence 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. First report to be submitted by 15 January each year.</p>	Overall Annually Reported	DEC	<p>Completed for the 2010-2011 period of reporting</p> <p>Pluto LNG Project Ministerial Statement 757 ACR was submitted for the period of October 2010-October 2011 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>Action 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>Objective To provide evidence that the proposal is being implemented as approved, and the relevant conditions and commitments are being met.</p> <p>Evidence Audit Program.</p>	Overall	DEC	<p>Completed for the 2010-2011 period of reporting</p> <p>Pluto LNG Project Annual Audit Program was submitted for DEC for comment on 28 May 2008. DEC approved the audit program on 30 June 2008.</p> <p>The 2011 environmental compliance report follows the approved format.</p>

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757:M4.3 Compliance Reporting	<p>Action 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>Objective To demonstrate compliance with Ministerial Conditions.</p> <p>Evidence See condition M4.1.</p>	Overall	DEC	<p>Completed for the 2010-2011 period of reporting</p> <p>Pluto LNG Project Ministerial Statement 757 ACR 2011 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>Action Make the environmental compliance reports required by Condition 4-1 publicly available in a manner approved by the CEO.</p> <p>How Environmental compliance reports 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 compliance reports are to be advertised in the Local newspaper Public Notices).</p> <p>Objective To provide evidence that the proposal is being implemented as approved, and the relevant conditions and commitments are being met.</p> <p>Evidence Letter to DEC Compliance Monitoring Section annually that the compliance report has been advertised as required.</p>	Overall Annually	DEC	<p>In Progress for the 2010-2011 period of reporting</p> <p>Pluto LNG Project Ministerial Statement 757 ACR for 2008 to 2010 were made publicly available following submission to Department of Environment and Conservation (DEC), on the Woodside internet site; http://www.woodside.com.au/Our-Business/Pluto/Sustainability/Pages/Environment.aspx</p> <p>Pluto LNG Project Ministerial Statement 757 ACR 2008 to 2010 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. Distributions of these documents were advertised in the Pilbara News – Western Australia's regional newspaper as a public notice on 24 February 2010.</p> <p>Pluto LNG Project Ministerial Statement 757 as amended by Ministerial Statement 850 ACR 2011 will be distributed to the public in the same way as previous ACRs except in the case of the Karratha Library which is currently closed. The 2010/2011 ACR will be provided at the earliest convenience once the library is re-opened.</p>
757:M5.1 Performance Review	<p>Action 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>How 5-yearly report will be submitted following commencement of operations.</p> <p>Objective To demonstrate compliance with Ministerial Conditions.</p> <p>Evidence Submit 5-yearly Performance Review report to the EPA.</p>	Operation Every 5 years	EPA	<p>Not applicable for 2010-2011 reporting period</p>
757:M5.2 Performance Review	<p>Action Make the Performance Review reports required by condition 5-1 publicly available in a manner approved by the CEO.</p> <p>How Performance Review Reports 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 Performance Review reports are to be advertised in the Local newspaper Public Notices).</p> <p>Objective To ensure the public is kept informed.</p> <p>Evidence Letter to DEC Compliance Monitoring Section that the Performance Review Report has been advertised as required.</p>	Operation Every 5 years	DEC	<p>Not applicable for 2010-2011 reporting period</p>

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757:M6.1 Marine Impacts	<p>Action 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>How - Implement Best Environmental Practice (BEP) techniques; - Implement the 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>Objective To minimise impact of dredging on the marine environment.</p> <p>Evidence Ongoing provision of Water Quality Reports and Coral Health Reports to the Pluto DEMG 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>Completed</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>Action 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>How 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>Objective To minimise impact of dredging on the marine environment.</p> <p>Evidence 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>Completed</p> <p>This condition was met during the 2010 reporting period and no further action is required.</p>
757:M6.3 Compliance Reporting	<p>Action 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>How 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>Objective To minimise impact of dredging on the marine environment.</p> <p>Evidence 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>Completed</p> <p>This condition was met during the 2010 reporting period and no further action is required.</p>
757:M6.4 Compliance Reporting	<p>Action 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>How As per Ministerial Condition 6.3 above.</p> <p>Objective To minimise impact of dredging on the marine environment.</p> <p>Evidence Investigation reports analysing the exceedance. Compliance reports to the Minister for the Environment regarding the Schedule 3 exceedance.</p>	Construction	Minister for Environment	<p>Completed</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>Action 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>How 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 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>Objective To minimise impact of dredging on the marine environment.</p> <p>Evidence Dredge Impact Management Plan.</p>	Design	Minister for Environment EPA	<p>Completed</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>Action Implement the Dredge Impact Management Plan required by Condition 6-5.</p> <p>How 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>Objective To minimise impact of dredging on the marine environment.</p> <p>Evidence Internal audit schedule, audit criteria, and evidence of completion. DEMG minutes.</p>	Construction	Minister for Environment	<p>Completed</p> <p>This condition was met during the 2010 reporting period and no further action is required.</p>
757:M6.7 Marine Impacts	<p>Action Make the Dredge Impact Management Plan required by condition 6-5 publicly available in a manner approved by the CEO.</p> <p>How 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>Objective To ensure that the public is kept informed.</p> <p>Evidence Evidence of advertisement of Dredge Impact Management Plan.</p>	Construction	DEC	<p>Completed</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>Action 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>How 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>Objective To minimise impact of dredging on the marine environment.</p> <p>Evidence 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>Completed</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>Action 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>How 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>Objective To determine the baseline distribution, community composition and health of benthic marine habitats within the area.</p> <p>Evidence DEC approval/endorsement of the Scope of Baseline Marine Habitat Survey document.</p>	Design Prior to commencement of marine works	Minister for Environment DEC	<p>Completed</p> <p>This condition was met during the 2008 reporting period and no further action is required.</p>
757:M6.10 Compliance Reporting	<p>Action 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>Objective To minimise impact of dredging on the marine environment.</p> <p>Evidence Initial report on detailed survey of coral habitat and communities and map showing general distribution of other benthic habitat types.</p>	Design 1 month prior to dredging construction	DEC	<p>Completed</p> <p>This condition was met during the 2008 reporting period and no further action is required.</p>
757:M6.11 Compliance Reporting	<p>Action 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>How 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>Objective To minimise impact of dredging on the marine environment.</p> <p>Evidence 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	<p>Completed</p> <p>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).</p>
757:M6.12 Compliance Reporting	<p>Action <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>Objective <i>To minimise impact of dredging on the marine environment.</i></p> <p>Evidence <i>See 850:M6.12.</i></p>	Post-construction Within 3 months of dredging completion	DEC	<p>Not Applicable</p> <p>Condition amended through section 46 of the EP Act. Refer to 850:M6:12 at the end of this table</p>
757:M6.13 Marine Impacts	<p>Action 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>How A Post-Dredging Marine Habitat Survey shall be constructed in accordance with the approved Scope of Baseline Habitat Survey.</p> <p>Objective To minimise impact of dredging on the marine environment.</p> <p>Evidence 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	<p>Not Applicable</p> <p>Condition amended through section 46 of the EP Act. Refer to 850:M6:13 at the end of this table</p>

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757:M6.14 Compliance Reporting	<p>Action 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>Objective To report progress of subsequent surveys.</p> <p>Evidence See 850:M6.14.</p>	Post-construction Within 3 months of dredging completion and annually for a following 3 years	DEC	<p>Not Applicable</p> <p>Condition amended through section 46 of the EP Act. Refer to 850:M6:14 at the end of this table</p>
757:M7.1 Deepwater Marine Outfall	<p>Action 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>How A Marine Treated Wastewater Discharge Management Plan will be developed and the appropriate infrastructure constructed to accommodate waste water discharge.</p> <p>Objective To minimise the environmental impact associated with wastewater discharge.</p> <p>Evidence 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>Completed</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. Commissioning of the effluent treatment plant will commence in the 2011-2012 reporting period with discharges to the MUBRL managed in line with the approved Treated Waste Water 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>Action 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>How 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>Objective 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>Evidence Marine Treated Wastewater Discharge Management Plan.</p>	Design	Minister for Environment EPA, DEC	<p>Completed</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 Treated Wastewater 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>
757:M7.3 Deepwater Marine Outfall	<p>Action Implement the Marine Treated Wastewater Discharge Management Plan required by condition 7-2.</p> <p>Objective To minimise environmental impacts and apply relevant technology to the project.</p> <p>Evidence Pluto LNG Project Ministerial Statement 757 ACR 2010.</p>	Operation	Minister for Environment	<p>In Progress</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. Commissioning of the effluent treatment plant will commence in the 2011-2012 reporting period with discharges to the MUBRL managed in line with the approved Treated Waste Water Marine Discharge Management Plan (Refer 757:M7.2) and effluent treatment commissioning plans approved under Works Approval W4466/2008/1.</p> <p>The approved Treated Waste Water Management Plan (2011) will be implemented from commencement of discharge to the MUBRL. No discharges occurred during the 2010-2011 reporting period.</p>

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757:M7.4 Deepwater Marine Outfall	<p>Action Make the Marine Treated Wastewater Discharge Management Plan required by condition 7-2 publicly available.</p> <p>How Marine Treated Wastewater Discharge 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 (1 hard copy, 1 cd copy) - Copies also to be freely available for download from the Woodside internet site, (availability and locations of Marine Treated Wastewater Discharge Management Plan are to be advertised in the Local newspaper Public Notices).</p> <p>Objective To ensure the public is kept informed.</p> <p>Evidence Copy of advertisement of Marine Treated Wastewater Discharge Management Plan.</p>	Construction Construction	Minister for Environment	<p>Completed</p> <p>The revised Treated Wastewater Management Plan is publically available on the Woodside internet site: (http://www.woodside.com.au/Our-Business/Pluto/Sustainability/Pages/Environment.aspx)</p> <p>Any future revisions to the plan will be published on the Woodside internet site.</p>
757:M7.5 Deepwater Marine Outfall	<p>Action 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>Objective To minimise the environmental impact associated with wastewater discharge.</p> <p>Evidence Approval from DEC of MTWDMP.</p>	Design Prior to submitting a Works Approval application for the wastewater treatment plant	Minister for Environment	<p>Completed</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).</p>
757:M7.6 Deepwater Marine Outfall	<p>Action 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>How 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 Waste Water Discharge Management Plan.</p> <p>Objective To demonstrate best practice in wastewater treatment and discharge.</p> <p>Evidence 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>Completed</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).</p>
757:M7.7:1 Deepwater Marine Outfall	<p>Action 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>How 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>Objective To minimise the environmental impact associated with wastewater discharge.</p> <p>Evidence Approval from DEC of MTWDMP.</p>	Design	DEC	<p>Completed</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).</p>
757:M7.7:2 Deepwater Marine Outfall	<p>Action 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>Evidence Pluto LNG Project Ministerial Statement 757 Compliance Report 2010.</p>	Operation	DEC	<p>Not applicable for 2010-2011 reporting period</p> <p>Condition not applicable – discharges from the effluent treatment plant did not occur during this reporting period.</p>

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757:M7.8 Compliance Reporting	<p>Action 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>How A Report will be prepared on the analysis of effluent properties and contaminant concentrations in consultation with DEC.</p> <p>Objective To demonstrate that Woodside waste water concentrations are substantially consistent with predictions.</p> <p>Evidence Effluent characterisation report.</p>	Operation Within 3 months following commissioning	DEC	<p>Not applicable for 2010-2011 reporting period</p> <p>Condition not applicable – Report will be conducted within 3 months following commissioning and stable operations.</p>
757:M7.9 Deepwater Marine Outfall	<p>Action 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>How Alternative waste management plan will be designed.</p> <p>Objective To anticipate impacts and manage those which are unforeseen.</p> <p>Evidence Contingency Wastewater Management Plan.</p>	Construction During Construction	Minister for Environment	<p>Completed</p> <p>The framework for the Contingency Waste Water Management Plan was included within the Marine Treated Waste Water 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 Waste Water 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>Action 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>How Practices will be changed to the methods of the Contingency Waste Management Plan.</p> <p>Objective Preparation for contingency events.</p> <p>Evidence Contingency Wastewater Management Plan.</p>	Construction During Construction	Minister for Environment	<p>Completed</p> <p>The Contingency Wastewater Management Plan forms part of the revised Treated Wastewater Management Plan.</p> <p>OEPA approval of the Treated Wastewater Management Plan (2011) received 1 July 2011</p>
757:M7.11 Deepwater Marine Outfall	<p>Action 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>How Action will be taken from Contingency Wastewater Management Plan.</p> <p>Objective Preparation for contingency events.</p> <p>Evidence Pluto LNG Project Ministerial Statement 757 Compliance Report - Report on alternate action to the DEC.</p>	Operation	Minister for Environment	<p>Not applicable for 2010-2011 reporting period</p> <p>Condition not applicable – discharges from the effluent treatment plant did not occur during this reporting period.</p>
757:M7.12 Deepwater Marine Outfall	<p>Action Review and revise the Contingency Wastewater Management Plan required by condition 7-9, as and when directed by the CEO.</p> <p>Objective Preparation for contingency events.</p> <p>Evidence Revised Contingency Wastewater Management Plan (if required).</p>	Operation	DEC	<p>Completed for the 2010-2011 reporting period</p> <p>Addressed in the revised 2011 Treated Wastewater Management Plan</p> <p>OEPA approval of the revised Treated Wastewater Management Plan was received on 1 July 2011.</p>
757:M7.13 Deepwater Marine Outfall	<p>Action 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>How Revisions of the Contingency Wastewater 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 (1 hard copy, 1 cd copy) - Copies also to be freely available for download from the Woodside internet site, (availability and locations of revisions of Contingency Wastewater Management Plan are to be advertised in the Local newspaper Public Notices).</p> <p>Objective To ensure that the public is kept informed.</p> <p>Evidence Evidence that the plan has been made publicly available as required.</p>	Operation Ongoing	DEC	<p>Completed</p> <p>The Contingency Wastewater Management Plan forms part of the Treated Wastewater Management Plan and is publically available on the Woodside internet site: http://www.woodside.com.au/Our-Business/Pluto/Sustainability/Pages/Environment.aspx</p> <p>Any future revisions to the plan will be published on the Woodside internet site.</p>
757:M8.1 Marine Quarantine	<p>Action Prior to commencement of dredging, prepare and implement a Marine Quarantine Management Plan, to the requirements of the Minister for the Environment.</p> <p>Objective To prevent marine pest introduction to the waters adjacent to the proposal.</p> <p>Evidence Marine Quarantine Management Plan developed in consultation with DoF and DEC.</p>	Design Before dredging	Minister for Environment EPA	<p>Completed</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>

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757:M8.2 Marine Quarantine	<p>Action 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>Objective To prevent marine pest introduction.</p> <p>Evidence See condition 8-4.</p>	Construction	Minister for Environment DEC	<p>Completed</p> <p>Condition is not applicable during the reporting period as dredging was completed in the 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>Action 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>Objective To prevent marine pest introduction</p> <p>Evidence An Operations Marine Quarantine Management Protocol developed in consultation with and approved by DoF and DEC.</p>	Prior to commencement of Operation	DEC	<p>In Progress</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. Woodside is currently awaiting OEPA's approval of the plan.</p>
757:M8.4 Compliance Reporting	<p>Action 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>How 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>Objective To prevent marine pest introduction.</p> <p>Evidence Inspection report.</p>	Design Prior to commencement of dredging	DEC DoF, AQIS	<p>Completed</p> <p>Please refer to 757:M8.2 and 2010 ACR.</p>
757:M8.5 Marine Quarantine	<p>Action 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>How 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>Objective Minimise environmental impacts associated with potential marine pest introduction.</p> <p>Evidence 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>Completed</p> <p>Please refer to 757:M8.2 and 2010 ACR.</p>
757:M8.6 Marine Quarantine	<p>Action 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>Objective To prevent pest contamination of other Australian Ports.</p> <p>Evidence 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>Completed</p> <p>Please refer to 757:M8.2 and 2010 ACR.</p>
757:M8.7 Compliance Reporting	<p>Action 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>Objective Minimise environmental impacts associated with potential marine pest introduction to other locations in Western Australia's territorial waters.</p> <p>Evidence If required, Marine Pest Management Strategy specified in the Marine Quarantine Management Plan.</p>	Construction	Minister for Environment DoF, AQIS	<p>Completed</p> <p>Please refer to 757:M8.2 and 2010 ACR.</p>

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757:M8.8 Compliance Reporting	<p>Action 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>Objective To keep DEC, DPA and DoF informed.</p> <p>Evidence Notification reports of any non-indigenous species detected in waters adjacent to the project</p>	Overall Within 24 hours of detection	DEC, DoF, DPA	Ongoing No introduced marine pests have been detected in waters adjacent to the Project to date.
757:M8.9:1 Marine Quarantine	<p>Action 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>Objective To prevent infestation of pest species.</p> <p>Evidence 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	Completed No introduced marine pests were detected during the dredging program. Dredging was completed on 21 May 2010.
757:M8.9:2 Marine Quarantine	<p>Action 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>Objective To prevent infestation of pest species.</p> <p>Evidence 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	Not applicable for 2010-2011 reporting period
757:M9.1 Turtle Management and Monitoring	<p>Action Prepare a Turtle Management Plan. 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>How 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>Objective 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>Evidence See Turtle Management Plan.</p>	Design Prior to commencement of works	Minister for Environment DEC	Completed 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. The Sea Turtle Management Plan has been revised for the operations phase and was submitted on 1 August 2011 to the OEPA for approval. Woodside is currently awaiting OEPA's approval of the plan.
757:M9.2 Turtle Management and Monitoring	<p>Action Implement the Turtle Management Plan required by condition 9-1.</p> <p>How 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>Objective To minimise environmental impacts and apply relevant technology to the project.</p> <p>Evidence Internal audit schedule, audit criteria, and evidence of completion. DEMG minutes. IFO report.</p>	Overall	Minister for Environment	In Progress Woodside implemented the Sea Turtle Management Plan accordingly during the reporting period.
757:M9.3 Turtle Management and Monitoring	<p>Action Make the Turtle Management Plan required by condition 9-1 publicly available in a manner approved by the CEO.</p> <p>How Turtle 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 (1 hard copy, 1 cd copy) - Copies also to be freely available for download from the Woodside internet site, (availability and locations of plan are to be advertised in the Local newspaper Public Notices).</p> <p>Objective To ensure public is kept informed.</p> <p>Evidence Evidence of advertisement of Turtle Management Plan.</p>	Construction	DEC	Completed The Sea Turtle Management Plan is publically available on the Woodside internet site: http://www.woodside.com.au/Our-Business/Pluto/Sustainability/Pages/Environment.aspx Any future revisions to the plan will be published on the Woodside internet site:
757:M9.4 Turtle Management and Monitoring	<p>Action Review the Turtle Management Plan required by condition 9-1 annually to the requirements of the Minister for the Environment.</p> <p>Objective To minimise environmental impacts on turtles.</p> <p>Evidence Report outcomes of review in Annual compliance report.</p>	Overall Annually	Minister for Environment	Completed for the 2010-2011 period of reporting (Construction Phase) ACR 2010 demonstrates Woodside continuously reviewed the Sea Turtle Management Plan during the construction phase of the Project. 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 Sea Turtle Management Plan was submitted on 1 August 2011 to the OEPA for approval. Woodside is currently awaiting OEPA's approval of the plan.

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757:M9.5 Compliance Reporting	<p>Action 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>Objective To keep DEC informed on project progress and issues.</p> <p>Evidence Incident reports as per Appendix D of the STMP.</p>	Overall Within 24 hours of an incident	DEC	<p>Completed</p> <p>No mortality of marine turtles has occurred as a result of the project.</p>
757:M10.1 Indigenous Heritage	<p>Action 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>How 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>Objective To minimise impact on cultural heritage.</p> <p>Evidence Cultural Heritage Management Plan. (CHMP) Correspondence seeking Department of Indigenous Affairs advice.</p>	Design Prior to ground-disturbing activities	DEC DIA	<p>Completed for the 2010-2011 period of reporting (Construction Phase)</p> <p>Woodside has a current Cultural Heritage Management Plan (CHMP) in place for the construction phase. This CHMP was submitted to the Department of Indigenous Affairs (DIA) and Department of Environment and Conservation for comment in 2009.</p> <p>The draft CHMP for the Operation Phase has been completed and presented to Traditional Custodian (TC) groups for comment. A final draft reflecting the TC's comments will be provided to DIA for consultation.</p>
757:M10.2 Indigenous Heritage	<p>Action Implement the Cultural Heritage Management Plan required by Condition 10-1.</p> <p>How Implementation will take place through inductions monitoring and ongoing Site B Heritage Audits as outlined in Cultural Heritage Management Plan.</p> <p>Objective To prevent unnecessary impacts.</p> <p>Evidence Site A – letter from DIA confirming compliance. Site B – independent consultant report confirming compliance.</p>	Overall	Minister for Environment	<p>Completed for the 2010-2011 period of reporting (Construction Phase)</p> <p>Site A – Woodside submitted a letter to DIA on the 18 July 2011 confirming compliance. Currently awaiting approval letter from DIA.</p> <p>Site B – Letter from DIA confirming compliance, received 23 March 2011.</p>
757:M10.3 Indigenous Heritage	<p>Action Make the Cultural Heritage Management Plan required by condition 10-1 publicly available.</p> <p>How Cultural Heritage Management Plan to be made available in the following locations: - the Local Government Authority (2 copies), Batty 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 plan are to be advertised in the Local newspaper Public Notices).</p> <p>Objective To ensure that the public is kept informed.</p> <p>Evidence CHMP's made available to the public on internet. Local Aboriginal groups provided with hard copy.</p>	Construction	DEC	<p>Completed</p> <p>The Cultural Heritage Management Plan is publically available on the Woodside internet site: http://www.woodside.com.au/Our-Business/Pluto/Sustainability/Pages/Cultural-Heritage.aspx</p> <p>Any future revisions to the plan will be published on the Woodside internet site.</p>
757:M11.1 Compliance Reporting	<p>Action 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>How 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>Objective To ensure best practice is applied to minimising air emissions.</p> <p>Evidence Front End Engineering Design Report.</p>	Design Prior to submitting a Works Approval Application for the plant.	Minister for Environment EPA	<p>Completed</p> <p>This condition was met during the 2008 reporting period and no further action is required.</p>
757:M11.2 Air Emissions	<p>Action At least three months prior to commencement of operations prepare an Air Quality Management Plan.</p> <p>How 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>Evidence Air Quality Management Plan.</p>	Construction At least 3 months prior to the commencement of operations	Minister for Environment	<p>Completed</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>Action Implement the Air Quality Management Plan required by Condition 11-2.</p> <p>Objective To minimise environmental impacts associated with air emissions.</p> <p>Evidence Annual Compliance Report.</p>	Operation Operation	Minister for Environment	<p>Not applicable for 2010-2011 reporting period</p> <p>The Air Quality Management Plan will be implemented for operation of the Pluto LNG Project onshore LNG facilities covered in the plan.</p>

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<ul style="list-style-type: none"> Audit Code Subject 	<ul style="list-style-type: none"> What action must be taken How action must be taken and/or objective of action Objective Evidence that action has been taken 	<ul style="list-style-type: none"> Project phase When action to be taken Where it is to be taken 	<ul style="list-style-type: none"> To requirements of On advice from 	Status: October 2010 – October 2011
757:M11.4 Air Emissions	<p>Action Make the Air Quality Management Plan required by condition 11-2 publicly available.</p> <p>How Air Quality 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 Air Emissions Management Plan are to be advertised in the Local newspaper Public Notices).</p> <p>Objective To keep public informed.</p> <p>Evidence Copy of advertisement of Air Quality Management Plan.</p>	Construction	DEC	<p>Completed</p> <p>The Air Quality Management Plan is publicly available on the Woodside internet site: http://www.woodside.com.au/Our-Business/Pluto/Sustainability/Pages/Environment.aspx</p> <p>Any future revisions to the plan will be published on the Woodside internet site</p>
757:M12.1 Greenhouse Gas Abatement	<p>Action 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>How 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>Objective To minimise environmental impacts associated with greenhouse gas emissions.</p> <p>Evidence Greenhouse Gas Abatement program.</p>	Design Prior to commencement of construction of plant	Minister for Environment EPA	<p>Completed</p> <p>This condition was initially met during the 2008 reporting period. A revision to the plan has been submitted to OEPA for approval. Woodside is currently awaiting OEPA's approval of the plan.</p>
757:M12.2 Greenhouse Gas Abatement	<p>Action 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>Objective To minimise Greenhouse gas emissions.</p> <p>Evidence Formal agreement to provide offsets.</p>	Overall Ongoing	Minister for Environment	<p>In Progress</p> <p>Reservoir CO₂ offset obligations are currently being met via a contract with CO₂ Australia. This contract requires CO₂ Australia, on behalf of the Pluto LNG Project, to implement bio-sequestration of an equivalent quantity of CO₂ emissions to that released through venting of reservoir CO₂ during operations.</p>
757:M12.3 Greenhouse Gas Abatement	<p>Action Implement the Greenhouse Gas Abatement Program required by condition 12-1.</p> <p>Objective To minimise Greenhouse gas emissions.</p> <p>Evidence Pluto LNG Project Ministerial Statement 757 Compliance Report 2009.</p>	Construction	Minister for Environment	<p>Completed for the 2010-2011 period of reporting (Construction Phase)</p> <p>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 CO₂ 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>

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757:M12.4 Greenhouse Gas Abatement	<p>Action 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>How Greenhouse Gas Abatement Program 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 Greenhouse Gas Abatement Program are to be advertised in the Local newspaper Public Notices).</p> <p>Objective To keep public informed.</p> <p>Evidence Copy of advertisement of Greenhouse Gas Abatement Program.</p>	Design Ongoing	DEC	<p>Completed</p> <p>The Greenhouse Gas Abatement Program is publically available on the Woodside internet site: http://www.woodside.com.au/Our-Business/Pluto/Sustainability/Pages/Environment.aspx</p> <p>Any future revisions to the plan will be published on the Woodside internet site.</p>
757:M13.1 Offsets	<p>Action 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>Objective To minimise environmental impacts associated with greenhouse gas emissions.</p> <p>Evidence Pluto LNG Project Ministerial Statement 757 Compliance Report 2009.</p>	Overall Ongoing	Minister for Environment DEC	<p>In Progress</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"> 14 December 2010 5 April 2011 <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>Offset A: Site A Management and Monitoring</p> <ul style="list-style-type: none"> 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 has resubmitted "Site A Vegetation Management Plan" 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) <p>Offset B: Rehabilitation/Restoration Outside Lease</p> <ul style="list-style-type: none"> 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. DEC has approved this Offset being temporarily put on hold until land access issues are resolved. <p>Offset C: Taxonomic studies of 37 Flora spp Closed – Minister for Environment and Water has confirmed that Woodside has met its obligations and has satisfied the requirements for this Offset.</p> <p>Offset D: Research and Monitoring Dampier Archipelago Marine Park Closed – Minister for Environment and Water has confirmed that Woodside has met its obligations and has satisfied the requirements for this Offset.</p> <p>Offset E: Managing Dredging Impacts Closed – Minister for Environment and Water has confirmed that Woodside has met its obligations and has satisfied the requirements for this Offset.</p> <p>Offset F: Genetic Work To Resolve Taxonomic Uncertainties – Rhagada Sp 12. Closed – Minister for Environment and Water has confirmed that Woodside has met its obligations and has satisfied the requirements for this Offset.</p> <p>Offset G: Ethno-Botanical Study</p> <ul style="list-style-type: none"> A final Ethno-Botanical Survey was undertaken from 7-9 June 2011 to collect the remaining 33 species. The final report was submitted to the OEPA and the DEC as an addendum to the 2009 ethno-botanical report. A letter to the General Manager of the OEPA was sent on the 7 October 2011 to seek closure of this Offset.
757:M14.1 Decommissioning	<p>Action 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>Objective To outline a plan for decommissioning.</p> <p>Evidence Preliminary Decommissioning Plan.</p>	Design Prior to submitting a Works Approval application for the plant.	DEC	<p>Completed</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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<ul style="list-style-type: none"> • Audit Code • Subject 	<ul style="list-style-type: none"> • What action must be taken • How action must be taken and/or objective of action • Objective • Evidence that action has been taken 	<ul style="list-style-type: none"> • Project phase • When action to be taken • Where it is to be taken 	<ul style="list-style-type: none"> • To requirements of • On advice from 	Status: October 2010 – October 2011
757:M14.2 Decommissioning	<p>Action Submit a Final Decommissioning Plan, for approval of the CEO.</p> <p>How 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>Objective To ensure that the site is suitable for future land uses.</p> <p>Evidence Final Decommissioning Plan.</p>	Operation At least 6 months before the date of closure or at a time approved by the CEO	DEC	<p>Not applicable for 2010-2011 reporting period</p> <p>Final Decommissioning Plan shall be developed closer to decommissioning date.</p>
757:M14.3 Decommissioning	<p>Action 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>Objective To fulfil decommissioning responsibilities</p> <p>Evidence CR</p>	Closure Until such time as the Minister for Environment determines on advice of the CEO that the proponent's decommissioning responsibilities have been fulfilled.	Minister for Environment DEC	<p>Not applicable for 2010-2011 reporting period</p> <p>Final Decommissioning Plan shall be developed closer to decommissioning date.</p>
757:M14.4 Decommissioning	<p>Action Make the Final Decommissioning Plan required by condition 14-2 publicly available in a manner approved by the CEO.</p> <p>How Final Decommissioning 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 Final Decommissioning Plan are to be advertised in the Local newspaper Public Notices).</p> <p>Objective To ensure the public is kept informed</p> <p>Evidence Copy of advertisement of Final Decommissioning Plan</p>	Closure	DEC	<p>Not applicable for 2010-2011 reporting period</p> <p>Final Decommissioning Plan shall be developed closer to decommissioning date.</p>
850:M6.12 Compliance Reporting	<p>Action 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>Objective To minimise impact of dredging on the marine environment.</p> <p>Evidence See M6.14.</p>	Post-construction Within 3 months of dredging completion	DEC	<p>Completed</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>Action 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>How A Post-Dredging Marine Habitat Survey shall be undertaken in accordance with the approved Scope of Baseline Habitat Survey.</p> <p>Objective To minimise impact of dredging on the marine environment.</p> <p>Evidence See M6.14.</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	<p>Completed</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.</p>
850:M6.14 Compliance Reporting	<p>Action 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>Objective To report progress of subsequent surveys.</p> <p>Evidence 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>	Post-construction Within 3 months of dredging completion and annually for a following 3 years	DEC	<p>Completed</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 2011 reporting period (October 2010 to October 2011).

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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 throughout the 2010-11 reporting period.

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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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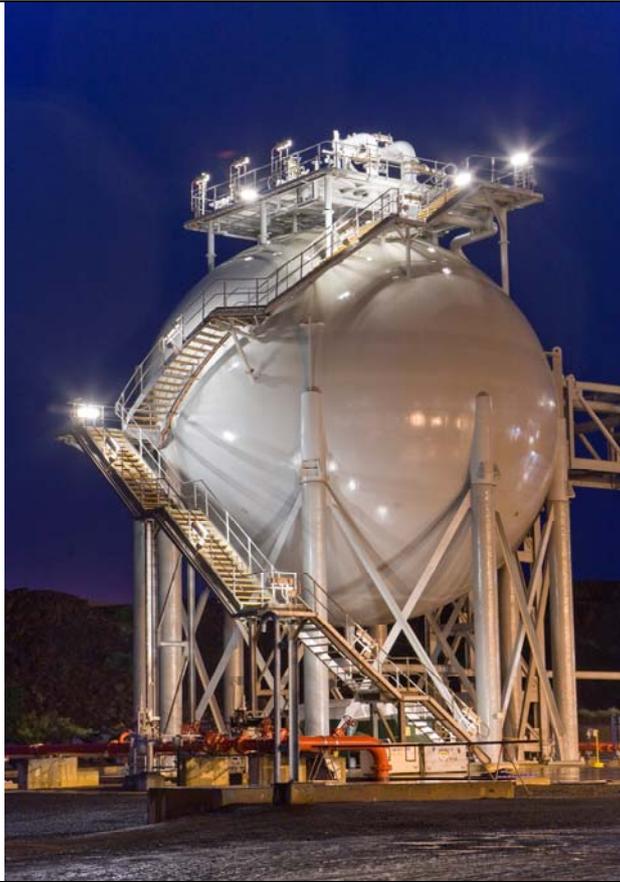


Plate 3: Site B Propane Refrigerant Storage Sphere



Plate 4: Site B Acid Gas Removal Unit

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	Evidence
Marine Treated Wastewater Discharge Management Plan		
Effluent treatment plant to comply with the requirements of Ministerial Statement 757.		Evidence provided in Section 2 of this report, against M7.1 to M7.8.
Dredge Impact Management Plan (Condition 6-6)		
Coral Condition Assessments		
The results of the coral spawning assessment will be reported to the Woodside Construction Team Environmental Coordinator who will advise the Woodside Construction Team Project Manager. The Project Manager will inform the Dredge Environment Management Group (DEMG) and the Department for the Environment and Conservation (DEC).	4.6.6	COMPLETED Dredging ceased on 21 May 2010. Results were presented in the ACR 2010.
Dredging will cease in areas likely to affect coral larval survival if the spawning assessment shows there will be a significant event in the next predicted spawning window. The spawning assessment will take place 2-3 weeks before the spawning window. A significant spawning event is where 20% or more of the individuals of a species/genus group show readiness to spawn in the next window and the corals surveyed are the dominant and subdominant ones from any site.	Appendix H 4.5	
The coral spawning report will be used by the Woodside Construction team to effectively manage the dredging works with respect to the key ecological windows to the requirements of Schedule 4 of the Ministerial Statement.	Appendix H 6	
An assessment in conjunction with the DEMG and on advice from the DEC will be made on whether the planned dredging activities should cease to ensure that larval survival and recruitment will not be effected by dredging.	4.6.6	
A baseline (coral recruitment)* survey will be undertaken no less than two weeks prior to dredging commencing and then a post dredging survey within three months of the completion of dredging and disposal. A stand alone progress report representing the pre-dredging survey results will be provided to the DEC prior to dredging commencing. A final stand alone report will compare the baseline with the post dredging survey to provide an indication of mortality rates for this size class of corals from different sites.	Appendix G - 4.3	COMPLETED Dredging ceased on 21 May 2010. Results were presented in the ACR 2010.

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Water Quality and Sediment Condition Assessments		
Satellite imagery from the coarse, medium and high resolution satellites will be processed by Woodside to provide broad scale, semi-quantitative information on the extent and intensity of turbidity within the survey area.	4.6.4	COMPLETED Dredging ceased on 21 May 2010. Results were presented in the ACR 2010.
Sediment samples from each site will be taken prior to dredging and again after the completion of dredging. If the post dredging survey shows significant change in sediment characteristics, a further survey will be undertaken six months later to determine if the sediment characteristics have returned to pre-dredge state.	4.6.3	COMPLETED Dredging ceased on 21 May 2010. Results were presented in the ACR 2010.
A report will be provided to the DEC after each (PSD)* sampling event.	Appendix E 2.6	
A key component of the monitoring programme will be an early model verification phase in which the predictions made by the model for various sets of environmental (weather and sea state) conditions can be tested by taking real measurements in and around the plume.	4.9	COMPLETED Dredging ceased on 21 May 2010. Results were presented in the ACR 2010.
BEP Techniques		
The specific techniques, equipment, technology and management measures that will be implemented as part of Woodside's commitment to BEP dredging are described in Section 4.3.4 (Table 26) of the DSDMP. These measures must be implemented where possible.*	4.3.2	COMPLETED Dredging ceased on 21 May 2010. Results were presented in the ACR 2010.
The effectiveness of BEP techniques will be reported to the DEMG in the event that they are implemented. An independent dredging expert has also been appointed to the DEMG to offer further advice where applicable.	4.3.4	COMPLETED Dredging ceased on 21 May 2010. Results were presented in the ACR 2010.
Marine Quarantine Management Plan (Condition 8-1)		

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Quarantine Management Plan key actions.	Various	COMPLETED Dredging ceased on 21 May 2010. Results were presented in the ACR 2010.
Sea Turtle Management Plan (Condition 9-2)		
Development and implementation of a construction lighting protocol.	Table 7- CS1	The Construction Lighting Protocol has been submitted to, and approved by, DEC. The protocol is being implemented on site.
Implementation of Blasting Procedures.	Table 7- CS2	COMPLETED No Blasting was conducted during the reporting period. Dredging ceased on 21 May 2010.
Implementation of Dredging Procedures.	Table 7- CS3	COMPLETED Dredging ceased on 21 May 2010. Results were presented in the ACR 2010.
Management of nearshore / offshore spill response plan.	Table 7- CS4	Woodside has in place a spill response plan that manages the response to a marine hydrocarbon spill if one was to occur. No significant spills have occurred during completion of the works.
Limit access to Holden Beach (personnel and vehicles).	Table 7- CS5	COMPLETED Restricted access is covered in site inductions and the area is fenced or otherwise marked to prevent accidental access.
Development and implementation of an operational lighting protocol.	Table 8 - OS1	Submission of Operational Lighting Protocol to DEC. This has been approved by the DEC.
Cultural Heritage Management Plan		
Meet statutory obligations in relation to the management of cultural heritage.	Section 1	Site A – Woodside is awaiting DIA to confirm compliance (Letter was sent to DIA on 18 July 2011). Site B – DIA confirmed compliance on 23 March 2011.

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Implement where practicable the recommendations made by the Indigenous groups of the area in relation to cultural heritage management.	Section 1	Pluto Public Environmental Review (chapters 10 and 11) outline how Woodside has implemented recommendations from the local Aboriginal groups regarding footprint design. In addition, the local Aboriginal groups are involved in an ongoing process of performance monitoring to assist Woodside in achieving the objectives of cultural heritage management plans for the Project.
Minimise impacts to the cultural heritage environment.	Section 1	No additional impacts on cultural heritage during the reporting period. The majority of rock art on Pluto LNG Project leases has remained undisturbed.
Air Quality Management Plan		
Ensure plant emissions and the effect, if any, this has on ambient air quality is in place for the operations phase of the Pluto LNG Development.		The Air Quality Management Plan was approved on 10 October 2011.
Greenhouse Gas Abatement Program		
Offset reservoir CO ₂ emissions for the life of the project using allocation from the Woodside market abatement portfolio, to meet the environmental approval abatement conditions.	9.1	A contract with CO ₂ Australia to bio-sequester carbon dioxide is in place as the mechanism by which the Pluto LNG Project will discharge offset obligations for the Project.
Preliminary Decommissioning Plan		
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.
Final Decommissioning Plan		
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: Minor additions have been made to key actions from management plans for clarification of intent.*