

Rio Tinto Iron Ore

Cape Lambert Port B Development 2011 Compliance Assessment EPBC 2008/4032

RTIO-HSE-0160590

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Definitions

Term	Meaning
2011 Reporting Period	January 1 st , 2011, to December 31 st , 2011
CLB	Cape Lambert Port B
CMP	Cetacean Management Plan
Compliance Assessment	A systematic assessment undertaken by a qualified person(s) to determine the compliance of a company in relation to a particular audit protocol.
Compliant	The Proponent has adhered to the requirements of the particular condition issued in EPBC 2008/4032
DSDMP	Dredging and Spoil and Disposal Management Plan
DSEWPaC	Department of Sustainability, Environment, Water, Population and Communities
MTMP	Marine Turtle Management Plan
PER	Public Environmental Review and draft Public Environment Report
N/A	Not Applicable
	At the time of the compliance assessment a condition issued in EPBC 2008/4032 was not yet applicable or had not yet been triggered.
Non-compliant	The Proponent considers during its audit process that it has not met an applicable condition and/or has received clarification from the regulators that a potential non-compliance has not met a particular condition issued in EPBC 2008/4032
OEPA	Office of the Environmental Protection Authority, Western Australia
In Process	The Proponent has partially met the requirements of a condition; however there are ongoing requirements that are still pending approval or clarification.
Potentially Non-compliant	The Proponent is potentially non-compliant, however further clarification needs to be sought from the Proponent before the level of compliance is definitively determined.
RTIO	The iron ore division of Rio Tinto. The proponent, Pilbara Iron Pty Ltd, is a member of the Rio Tinto iron ore group of companies.

1 Project Overview

Pilbara Iron Pty Limited (Pilbara Iron), a member of the Rio Tinto group of companies, is constructing a second port facility (Port B) at Cape Lambert, located approximately 5 km west of Point Samson on the Pilbara coast, Western Australia. The Cape Lambert Port B (CLB) development broadly includes the construction of a rail track network, ore stockyards, ore delivery systems, an access jetty and wharf adjoined to the land by an abutment of quarried material, and two ship loaders. Dredging of benthic sediment around the CLB jetty and wharf is also required to establish a departure channel, turning basins and berth pockets to facilitate access for bulk ore carriers. The purpose of the CLB development is to provide the necessary infrastructure and ancillaries to process and export up to 120 million tonnes of iron ore per annum.

The CLB development was referred to the Federal government in accordance with the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) on February 12th, 2008. On March 25th, 2008, the Federal government determined that the proposal was a 'controlled action' based on potential impacts to matters of National Environmental Significance (NES) protected by the EPBC Act, including:

- listed threatened species and communities (Section 18);
- listed migratory species (Section 20, 20A and 18A); and
- Commonwealth marine areas (Section 23 and 24A).

The CLB development was assessed by the Federal government as a Public Environmental Review and draft Public Environment Report (PER) in March 2009 and was subsequently approved by the Minister for Sustainability, Environment, Water, Population and Communities (SEWPaC) on October 26th, 2010 (EPBC 2008/4032).

In accordance with the requirements of Section 19 of the *Environment Protection (Sea Dumping) Act 1981*, an application for a Sea Dumping Permit was lodged with the Minister on March 19th, 2008. This application was approved on October 26th, 2010 (SD2008/822).

2 Purpose of this Document

Condition 18 of EPBC 2008/4032 requires Rio Tinto to provide compliance assessments to the Department of Sustainability, Environment, Water, Population and Communities (DSEWPaC) on an annual basis. Condition 18 specifically states:

18. *Each year the person taking the action must provide a report to the Minister addressing compliance with each of the conditions of this approval. The date of the first compliance report must be within twelve months from the date of this approval with each subsequent report 12 months from the date of the previous report. The Compliance report must:*
- a) *Be endorsed by Pilbara Iron Pty Ltd or a person approved in writing by the Department, who is delegated to sign on behalf of Pilbara Iron Pty Ltd;*
 - b) *Include a statement as to whether the person taking the action has complied with the conditions;*
 - c) *Identify any non-compliances and describe corrective and preventative actions taken; and*
 - d) *Make the compliance report publicly available on the Internet within 30 days of it being submitted to the Minister.*

This document assesses compliance against all conditions of EPBC 2008/4032 for the period January 1st, 2011, to December 31st, 2011 (referred to as the '2011 reporting period' herein).

3 Compliance Assessment Results

Compliance assessment results are available within tables one (EPBC 2008/4032), two (Dredging and Spoil Disposal Management Plan and SD2008/822), three (Marine Turtle Management Plan) and four (Cetacean Management Plan) below. All supporting documentation has been lodged in Rio Tinto Iron Ore's Document Management System and is available upon request.

There was one non-compliance with EPBC 2008/4032 during this reporting period, specifically against Condition 3, which requires the implementation of the Cape Lambert Port B Development Dredging and Spoil Disposal Management Plan (DSDMP). Details regarding this non-compliance are provided in the following.

DSDMP Section 4.5, Invasive Marine Species Management

Section 4.5 of the DSDMP requires that:

Specified vessels and immersible equipment and vessels used to undertake single or multiple bunkering or other routine operational activities at neighbouring ports (Dampier and Port Hedland), will be exempt from the IMS management and inspection requirements detailed within Condition 9-1. Issue of a written exemption by the CEO (of the Western Australian Environmental Protection Authority) on advice from the Department of Fisheries will be based on the VCP, including a risk assessment supported by documentation, demonstrating biofouling management measures and a vessel activity profile since the most recent dry-dock cleaning.

Thirty-two specified vessels were risk assessed by Western Australian Department of Fisheries (DoF) approved specialists prior to mobilising to the Cape Lambert Port B development during the 2011 reporting period. Of these, the first 20 mobilisations were approved by the DoF only. Once identified, this potential non-compliance was immediately reported to the Western Australian Office of the Environmental Protection Authority (OEPA) and corrective actions were initiated.

These actions included the submission of all risk assessments to the OEPA, and revisions to the (previously approved) Cape Lambert Port B Development Vessel Clearance Procedure. The OEPA indicated that it was satisfied with these remedial measures and advised that no further action was required. No environmental impact occurred due to this potential non-compliance. The mobilisations of the remaining 12 vessels complied with all requirements of Condition 9-2.

DSDMP Section 4.9, Waste Management

Section 4.9 of the DSDMP requires that:

The accidental release of wastes has the potential to impact adversely on the marine environment. Waste streams requiring management include:

- *solid wastes (domestic wastes, packaging etc)*
- *hazardous wastes (used oil spill equipment, hazardous substance storage containers, waste oil, etc)*
- *sewage and grey water.*

The discharge of these wastes into the marine environment is regulated by the Protection of the Sea (Prevention of Pollution from Ships) Act 1983 (Cth) which is based on the MARPOL 73/78 Convention Annex IV (sewage) and Annex V (Garbage) to which Australia is a signatory.

On September 29th, 2011, the backhoe dredger *MV Mimar Sinan* discharged treated grey and black water to port waters. Once observed, discharge activities were immediately ordered to cease, the port authority (i.e. Pilbara Iron) were notified and investigations were initiated.

Investigations identified that approximately 9 m³ of waste material was discharged, all of which was treated by a sewage treatment plant certified and surveyed under MARPOL 73/78 (reference number

RTD0/DVE/20080508114314). As the sewage was appropriately treated, and considering that large (6.1m) spring tides were present at the time, effects are likely to have been localised and temporary. Consequently, it is unlikely that any environmental impacts resulted from the discharge.

Whilst some Western Australian ports allow appropriately treated sewage to be discharged in port waters, for example Dampier Port, such activities are generally required to be approved by the port authority prior to occurring. No such approval was obtained in this case. The *Mimar Sinan*'s master was made aware of the non-compliance and an incident report was entered into Rio Tinto Iron Ore's reporting system (refer to reference number #1999197924). Follow-up training and a lessons learned were also conducted with the dredging contractor. No discharges of sewage, treated or otherwise, occurred to port waters for the remainder of the reporting period.

4 Public Availability of Compliance Assessment

This compliance assessment will be made publicly available on the Rio Tinto Iron Ore website (<http://www.riotintoironore.com>), in accordance with Condition 18 (d) of EPCB 2008/4032.

5 Future Compliance Assessments

Future compliance assessments will be submitted on an annual basis and will report on the previous calendar year. The next compliance assessment will assess the period 1 January, 2012 to 31 December, 2012 and will be submitted prior to October 26 2013.

Tables

Table 1 EPBC 2008/4032 2010 Compliance Assessment

Audit Code	Subject	Action	How	Evidence	Satisfy	Phase	When	Status
2008/4032: M1	Sea Dumping Permit	The person taking the action must comply with the requirements of any permit obtained under the Commonwealth <i>Environmental Protection (Sea Dumping) Act 1981</i> , including any conditions attached	Obtain Sea Dumping Permit for CLB dredging activities and comply with all the conditions within	Refer to the compliance assessment for the Cape Lambert Port B Dredging and Spoil Disposal Management Plan (RTIO-HSE-0131738)	Minister for Sustainability, Environment, Water, Populations and Communities (SEWPaC)	Pre-construction, Construction	Prior to the commencement of, and during, dredging activities	Compliant
2008/4032: M2	Dredging and Spoil Disposal Management Plan	To mitigate the impacts from the dredging activities on EPCB Act listed threatened and migratory species and the Commonwealth marine area, the person taking the action must prepare and submit to the Minister for approval a Dredging and Spoil Disposal Management Plan (DSDMP). The plan must include the following: a) Measures (for example mitigation measures, performance indicators/trigger levels and corrective actions/management actions) that will ensure there are no unacceptable	Prepare and submit DSDMP to the Minister for approval	Refer to the Cape Lambert Port B Development Dredging and Spoil Disposal Management Plan (RTIO-HSE-0102815)	Minister for SEWPaC	Pre-construction	Prior to the commencement of dredging activities	Compliant

Audit Code	Subject	Action	How	Evidence	Satisfy	Phase	When	Status
		<p>impacts on EPBC Act listed threatened species, migratory species and/or the Commonwealth marine area. These must include:</p> <ul style="list-style-type: none"> • Operating procedures to minimise injury to, or mortality of, EPBC Act listed threatened or migratory species from dredging activities; • Reporting mechanisms that ensure reporting to the Minister within one business day of injury to, or mortality of, and EPBC Act listed threatened or migratory species caused by dredging activities; • Management triggers and contingency measures when dredging must be varied or suspended, including requirements to report to the Minister; • Measures that minimise the risk of introduced marine pest species, including ballast-water management and vessel inspections for any non-domestic vessels; 						

Audit Code	Subject	Action	How	Evidence	Satisfy	Phase	When	Status
		<ul style="list-style-type: none"> Measures to prevent and respond to accidental fuel, oil or chemical spills; Measures that ensure dredging activities do not impact corals during coral spawning periods, including suspension of dredging activities; Measures to monitor water quality, turbidity plume and coral health, including dredging exclusion periods and management triggers; Responsive actions that must be undertaken in the event contingency measures are employed, including requirement to report to the Minister; and Reactive and post dredge monitoring, including reporting timeframes. <p>b) Details of responsible parties for each activity described in the DSDMP, noting that the person to whom this approval is granted is responsible for the proposed action; and</p>						

Audit Code	Subject	Action	How	Evidence	Satisfy	Phase	When	Status
		c) Measures that ensure periodic reviews of the DSDMP and that ensure continual improvement measures are applied accordingly. This condition does not remove the requirement under Condition 20.						
2008/4032: M3.1	Dredging and Spoil Disposal Management Plan	Dredging activities must not commence until the DSDMP has been approved by the Minister in writing	Prepare and submit DSDMP to the Minister for approval	Refer to the Minister's approval letter for the DSDMP (RTIO-HSE-0103134)	Minister for SEWPaC	Pre-construction	Prior to the commencement of dredging activities	Compliant
2008/4032: M3.2	Dredging and Spoil Disposal Management Plan	The approved DSDMP must be implemented	Implement the approved DSDMP	Refer to the compliance assessment for the Cape Lambert Port B Dredging and Spoil Disposal Management Plan (RTIO-HSE-0131738)	Minister for SEWPaC	Construction	During dredging activities	Compliant
2008/4032: M4	Cetacean Management Plan	To mitigate the impacts on cetaceans from the dredging activities, construction activities and the ongoing operation of the	Prepare and submit CMP to the Minister for approval	Refer to the Cape Lambert Port B Development Cetacean Management Plan	Minister for SEWPaC	Pre-construction	Prior to the commencement of marine construction	Compliant

Audit Code	Subject	Action	How	Evidence	Satisfy	Phase	When	Status
		<p>Cape Lambert Port, the person taking the action must prepare and submit to the Minister for approval a Cetacean Management Plan (CMP). The Plan must include the following:</p> <p>a) measures to prevent vessel strike during dredging activities, construction activities and ongoing operation of the Cape Lambert Port;</p> <p>b) measures to prevent any potential impact from underwater noise during construction;</p> <p>c) monitoring and exclusion zones during dredging and noise emitting construction activities, including pile driving;</p> <p>d) details of the responsible parties for each activity described in the CMP, noting that the person to whom this approval is granted is responsible for the proposed action and the reporting requirements of the responsible parties; and</p>		(RTIO-HSE-0102816)			n activities	

Audit Code	Subject	Action	How	Evidence	Satisfy	Phase	When	Status
		e) measures that ensure periodic reviews of the CMP and that ensure continual improvement measures applied accordingly. This condition does not remove the requirement under Condition 20.						
2008/4032: M5.1	Cetacean Management Plan	Dredging activities must not commence until the CMP has been approved by the Minister in writing	Prepare and submit CMP to the Minister for approval	Refer to the Minister's approval letter for the Cetacean Management Plan (RTIO-HSE-0103134)	Minister for SEWPaC	Pre-construction	Prior to the commencement of dredging activities	Compliant
2008/4032: M5.2	Cetacean Management Plan	The approved CMP must be implemented	Implement the approved CMP	Refer to the compliance assessment for the Cape Lambert Port B Cetacean Management Plan (RTIO-HSE-0131734)	Minister for SEWPaC	Construction	During marine construction activities	Compliant
2008/4032: M6	Marine Turtle Management Plan	To mitigate the impacts from dredging activities on marine turtles, during construction and ongoing operation of the Cape Lambert Port facilities, the person taking the action must prepare and submit to the minister for approval a Marine Turtle Management Plan (MTMP). The plan must include the following:	Prepare and submit MTMP to the Minister for approval	Refer to the Cape Lambert Port B Development Marine Turtle Management Plan (RTIO-HSE-0102817)	Minister for SEWPaC	Pre-construction	Prior to the commencement of marine construction activities	Compliant

Audit Code	Subject	Action	How	Evidence	Satisfy	Phase	When	Status
		<p>a) measures for the protection of marine turtles during pile driving activities, including soft start up procedures, monitoring for the presence of marine turtles and exclusion zones;</p> <p>b) mitigation measures for light spill management and reduction, including, but not limited to, the lighting sources, lighting intensity, directionality and shrouding;</p> <p>c) turtle behaviour monitoring programs including adult nesting activity at Bells Beach and Cooling Water Beach, relative to other sites in the region, including hatchling dispersal (onshore and offshore);</p> <p>d) long term population monitoring programs at Bells Beach and Cooling Water Beach;</p> <p>e) a monitoring program to measure the magnitude of pile driving impacts effects on nest sites at Cooling</p>						

Audit Code	Subject	Action	How	Evidence	Satisfy	Phase	When	Status
		<p>Water Beach;</p> <p>f) a nest relocation programme for Cooling Water Beach in the event that monitoring indicates a significant decline in nest success relative to other beaches;</p> <p>g) monitoring programs for the stability and vegetation cover of the Bells Beach primary dune, including responsive actions in the event that monitoring data indicates that landform stability is being reduced as a result of erosion, vegetation cover reduction or other processes;</p> <p>h) measures for reporting incidents involving marine turtles to the Department throughout the life of port operations;</p> <p>i) details of responsible parties for each activity described in the MTMP, noting that the person whom this approval is granted is responsible for the proposed action, and the reporting requirements</p>						

Audit Code	Subject	Action	How	Evidence	Satisfy	Phase	When	Status
		of the responsible parties; and j) measures that ensure periodic review of the MTMP and that ensure continual improvement measures applied accordingly. This condition does not remove the requirement under Condition 20.						
2008/4032: M7.1	Marine Turtle Management Plan	Dredging activities must not commence until the MTMP has been approved by the Minister in writing.	Prepare and submit MTMP to the Minister for approval	Refer to the Minister's approval letter for the Marine Turtle Management Plan (RTIO-HSE-0103134)	Minister for SEWPaC	Pre-construction	Prior to the commencement of dredging activities	Compliant
2008/4032: M7.2	Marine Turtle Management Plan	The approved MTMP must be implemented	Implement the approved MTMP	Refer to the compliance assessment for the Cape Lambert Port B Marine Turtle Management Plan (RTIO-HSE-0131733)	Minister for SEWPaC	Construction	During marine construction activities	Compliant
2008/4032: M8	Blasting Management Plan	To minimise impacts to listed threatened and migratory species, if underwater blasting is required, the person taking the action must prepare and submit to the Minister for approval a Blasting and	Prepare a BMP in accordance with M8	No marine drilling and blasting occurred during this reporting period	Minister for SEWPaC	Construction	Submittal of draft plan 2 months prior to underwater blasting Finalisation	Not applicable

Audit Code	Subject	Action	How	Evidence	Satisfy	Phase	When	Status
		<p>Management Plan (BMP), at least 2 months prior to commencement of blasting activities. The Plan must include the following:</p> <p>a) a description of the blast methodology;</p> <p>b) the amount of blasting required and over what area;</p> <p>c) nomination of target blast pressures and potential environmental impacts of these pressures;</p> <p>d) monitoring for the presence of listed threatened and migratory species, including exclusion zones, prior to and during blasting;</p> <p>e) commitments that any blasting activities will not be undertaken at night or during nesting or hatchling seasons;</p> <p>f) post blast inspection for injured fauna including management and reporting to the Department of injured</p>					of plan prior to underwater blasting	

Audit Code	Subject	Action	How	Evidence	Satisfy	Phase	When	Status
		fauna; g) details of responsible parties for each action described in the BMP, including reporting requirements.						
2008/4032: M9	Blasting Management Plan	Blasting activities must not commence until the BMP has been approved in writing by the Minister	Submit BMP to Minister for approval	No marine drilling and blasting occurred during this reporting period	Minister for SEWPaC	Construction	In the event that marine blasting is required	Not applicable
2008/4032: M9	Blasting Management Plan	The approved BMP must be implemented	Implement the approved BMP	No marine drilling and blasting occurred during this reporting period	Minister for SEWPaC	Construction	In the event that marine blasting is required	Not applicable
2008/4032: M10	Ecosystem Research and Monitoring Program	The person taking the action must develop and implement an Ecosystem Research and Monitoring Program (ERMP) to acquire a detailed ecological understanding of the marine environment of the Cape Lambert region, that can be used to monitor, manage and/or improve the regional marine environment. The Plan must include monitoring programs for the following: a) Coastal processes including beach degradation;	Prepare and implement ERMP in accordance with M10	Refer to the Cape Lambert Port B Development Ecosystem Research and Monitoring Program (RTIO-HSE-0111471)	Minister for SEWPaC	Overall	26 April 2011	Compliant

Audit Code	Subject	Action	How	Evidence	Satisfy	Phase	When	Status
		<p>b) Condition of listed and threatened migratory species populations, associated habitat and the Commonwealth marine areas;</p> <p>c) Behaviour of listed threatened and migratory species, including but not limited to, cetaceans and marine turtles. This should include monitoring of potential important habitats, including resting areas;</p> <p>d) Water quality;</p> <p>e) Benthic habitat, including but not limited to, coral, seagrass, mangrove; and</p> <p>f) Implementation and reporting timeframes for each of the actions described above.</p>						
2008/4032: M11	Ecosystem Research and Monitoring Program	The ERMP must be submitted to the Minister for approval no later than six months from the date of this approval	Submit ERMP to the Minister for approval	Refer to the Ecological Research and Monitoring Program submission dated April 15, 2011 (RTIO-HSE-0111471)	Minister for SEWPaC	Construction	26 April 2011	Compliant
2008/4032:	Ecosystem Research and	After 12 months from the date of this approval,	Submit ERMP to Minister for	Refer to the Minister's approval	Minister for	Construction	26 October	Not

Audit Code	Subject	Action	How	Evidence	Satisfy	Phase	When	Status
M12	Monitoring Program	dredging activities must not thereafter be undertaken unless the Minister has approved the ERMP in writing. The approved ERMP must be implemented	approval	letter for the Ecosystem Research and Monitoring Program (RTIO-HSE-0126879)	SEWPaC		2011	applicable
2008/4032: M13	Ecosystem Research and Monitoring Program	The results of the ERMP must be used to inform an adaptive management response to observed impacts and/or any potential impacts identified, and to inform the continuous improvement of the management measures within the MTMP, CMP and BMP (if required)	Create adaptive management response informed by ERMP results, if required	No adaptive management requirements implemented during this reporting period	Minister for SEWPaC	Construction	As required	Not applicable
2008/4032: M14	Conditions – Other (Staff/contract or Training)	The person taking the action must ensure that all relevant staff and contractors and any other persons working on the action receive comprehensive training in relation to the requirements of this decision and comply with all requirements of this decision relevant to their duties prior to commencing action on the project	Provide comprehensive training/inductions as per M14	Refer to the CLB EMP Training presentations (RTIO-HSE-0159769), CLB Specialised Environmental Training Presentations (RTIO-HSE-0159770), CLB Environmental Training Records (RTIO-HSE-0159772) and the CLB Environmental Induction (RTIO-HSE-0159773). Refer to the Cape	Minister for SEWPaC	Overall		Compliant

Audit Code	Subject	Action	How	Evidence	Satisfy	Phase	When	Status
				<p>Lambert Port B Environmental Induction Dredging and Spoil Disposal Management (RTIO-HSE-0098862)</p> <p>Refer to the Marine Mammal Observer Training Presentation (RTIO-HSE-0107426)</p>				
2008/4032: M15	Conditions – Other (Audits)	Upon the direction of the Department, the person taking the action must ensure that an independent audit of compliance with the conditions of approval is conducted and a report submitted to the Department. The independent auditor must be approved by the Department prior to the commencement of the audit. Audit criteria must be agreed by the Department and the audit report must address the criteria to the satisfaction of the Department.	Undertake an independent compliance audit in accordance M15	The Department did not request an audit this reporting period	Minister for SEWPaC	Overall	Upon direction of the Department	Not applicable
2008/4032: M16	Conditions – Other (Commencement of Works)	If, at any time after two years from the date of this approval, the Minister notifies the person taking	Minister notifies Rio Tinto	<p>Action has commenced</p> <p>Minister has not</p>	Minister for SEWPaC	At any time after two years from the approval	If the Minister is not satisfied	Compliant

Audit Code	Subject	Action	How	Evidence	Satisfy	Phase	When	Status
		the action that the Minister is not satisfied that there has been substantial commencement of the action, the action must not thereafter be commenced without written agreement of the Minister		notified Rio Tinto		date of EPBC 2008/4032		
2008/4032: M17	Conditions – Other (Commencement of Works)	Within 10 days of commencement of the actions, the person taking the action must advise the Minister in writing of the actual date of commencement	Provide, in writing, the commencement date to the Minister	Refer to the written notification (RTIO-HSE-0104803)	Minister for SEWPaC	Construction	Within 10 days of the commencement of construction	Compliant
2008/4032: M18	Conditions – Other (Compliance Reporting)	Each year the person taking the action must provide a report to the Minister addressing compliance with each of the conditions of this approval. The date of the first compliance report must be within twelve months from the date of the previous report. The Compliance report must: a) be endorsed by Pilbara Iron Pty Ltd or a person approved in writing by the Department, who is delegated to sign on behalf of Pilbara Iron Pty Ltd; b) include a statement as to whether the person taking	Submission of a compliance assessment report in accordance with the requirements of M18	This document	Minister for SEWPaC	Overall	Annually	Compliant

Audit Code	Subject	Action	How	Evidence	Satisfy	Phase	When	Status
		<p>the action has complied with the conditions;</p> <p>c) identify any non-compliances and describe corrective and preventative actions taken; and</p> <p>d) make the compliance report publically available on the Internet within 30 days of it being submitted to the Minister.</p>						
2008/4032: M19	Conditions – Other (Compliance Reporting)	The Reports described at Condition 18 must be provided until the expiry of this approval	Submission of a compliance assessment report in accordance with the requirements of M18	This document	Minister for SEWPaC	Overall	Annually	Compliant
2008/4032: M20	Conditions – Other (Revising Management Plans)	If the person taking the action wishes to carry out any activity otherwise than in accordance with the DSDMP, CMP, MTMP, BMP and ERMP, referred to in conditions 2, 4, 6, 8, and 10, respectively, the person taking the action must submit for the Minister's approval a revised version of the relevant plan or program (however described). The varied activity shall not commence until the Minister has approved the varied plan or	Submission of a revised version of the relevant plan or program	<p>Letter to DSEWPaC issuing revised DSDMP and CMP (dated 18 February 2011) addressing tug harbour changes as part of variation to SD2008/822 (RTIO-HSE-0108035)</p> <p>Letter to DSEWPaC with revised MTMP (dated February 2011) addressing tug harbour changes as part of variation to</p>	Minister for SEWPaC	Overall	When required	Compliant

Audit Code	Subject	Action	How	Evidence	Satisfy	Phase	When	Status
		program in writing. If the Minister approves such a revised plan or program, the plan or program must be implemented in a place of the plan or program originally approved.		SD2008/822 (RTIO-HSE-0108795) DSEWPaC approval for amendments to CMP, MTMP and DSDMP for Tug Harbour Extension (RTIO-HSE-0110438) Letter to DSEWPaC issuing amended CMP (12 December 2011), DSDMP (12 December 2011) and MTMP (December 2011) (RTIO-HSE-0130868)				
2008/4032: M21	Conditions – Other (Revising Management Plans)	Management plans, reports, systems and programs (however described) referred to in these conditions of approval must be made publicly available within 30 days of approval by the Minister	Upload approved management plans onto Rio Tinto website	Refer to correspondence advising DSEWPaC that the approved CMP, DSDMP and MTMP are on Rio Tinto website (RTIO-HSE-0104099)	DSEWPaC	Overall	Within 30 days of approval by Minister	Compliant
2008/4032: M22	Conditions – Other (Management Plan Requirements)	All plans, reports or programs (however described) required under this approval must include the following elements: a) a description of the EPBC Act listed species	Include the requirements of M22 in all relevant plans, reports or programs	Refer to the Cape Lambert Port B Development Ecosystem Research and Monitoring Program (RTIO-HSE-0111471), Dredging	Minister for SEWPaC	Overall		Compliant

Audit Code	Subject	Action	How	Evidence	Satisfy	Phase	When	Status
		<p>and habitat likely to be impacted by the components of the action which are the subject of that plan, report or program (however described);</p> <p>b) an assessment of the risk to these values, species or habitats, from the components of the action that are the subject of or relevant to that plan, report or program (however described);</p> <p>c) details of the management measures proposed in relation to these values, species or habitats, if it is a requirement of the condition requiring that plan, report or program (however described);</p> <p>d) details of monitoring proposed for that species if it is a requirement of the condition requiring that plan, report or program (however described);</p>		<p>and Spoil Disposal Management Plan (RTIO-HSE-0102815), Cetacean Management Plan (RTIO-HSE-0102816) and the Marine Turtle Management Plan (RTIO-HSE-0102817)</p>				

Audit Code	Subject	Action	How	Evidence	Satisfy	Phase	When	Status
		<p>e) performance standards in relation to that species if it is a requirement of the condition requirement that plan, report or program (however described);</p> <p>f) management triggers in relation to that species if it is a requirement of the condition requiring that plan, report or program (however described).</p>						
2008/4032: M23	Conditions – Other (Management Plan Adherence)	The person taking the action must maintain accurate records of activities associated with or relevant to the above conditions of approval, and make them available on request by the Department. Such documents may be subject to audit by the Department and used to verify compliance with the conditions of approval.	Maintain accurate records of activities	<p>All records are maintained on the Rio Tinto Document Management System</p> <p>Records were not requested during this reporting period</p>	DSEWPaC	Overall	Upon request from the DSEWPaC	Compliant
2008/4032: M24	Conditions – Other (Specified Revisions to Management Plans)	If the Minister believes that it is necessary or desirable for the better protection of any relevant control provision to do so, the Minister may request that the person taking the action make specified revisions to any plans, reports or	Make specified revisions to plans, reports or programs as requested	No revisions to plans, reports or programs were requested during this reporting period	Minister for SEWPaC	Overall	Upon request from the DSEWPaC.	Not applicable

Audit Code	Subject	Action	How	Evidence	Satisfy	Phase	When	Status
		programs (however described) approved pursuant to these conditions. The person taking the action must comply with any such request. The revised plans, reports or programs (however described) must be implemented.						

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Table 2 SD2008/822 and Dredging and Spoil Disposal Management Plan Compliance Assessment

Audit Code	Subject	Action	When	Evidence	Status
1: DSDMP p104	Benthic Primary Producer Habitat Monitoring	A pre-dredging BPPH survey has been undertaken and post-dredging BPPH surveys will be undertaken to assess and evaluate compliance with Conditions 8-1 and 8-10 of the Ministerial Statement 840.	Prior to Dredging	Refer to the Benthic Primary Producer Habitat (BPPH) Monitoring Report (Subtidal) (RTIO-HSE-0071727). Dredging is still in process – post dredging surveys are yet to be conducted.	Compliant
2: DSDMP p104	Benthic Primary Producer Habitat Monitoring	To demonstrate compliance with the Ministerial Conditions, the data from the pre- and post-dredging BPPH surveys will be compared to determine if any change in BPP communities has occurred, and to evaluate whether any change can be attributed to dredging and spoil disposal activities.	Post Dredging 6 months	Dredging is still in process – post dredging surveys are yet to be conducted.	Not applicable
3: DSDMP p104	Benthic Primary Producer Habitat Monitoring	The pre-dredging BPPH monitoring used towed video methods to collect baseline data along replicate transects within potential impact and reference sites to quantify the areal extent of BPPH and composition and percent cover of BPP communities (coral, macro algae and turf algae) within the 6 local assessment units. The post-dredging BPPH monitoring will use the same methods to repeat the sampling so that pre- and post-dredging percent data can be analysed to evaluate whether there has been any change in BPPH areal extent and BPP community composition and/or percent cover. If a change is detected, data from a gradient of sites at varying distances from dredging activities will be used to infer whether this change was likely to be attributable to dredging and/or spoil disposal activities. In addition, data from the water quality and reactive coral health monitoring programs will also be used to assist in the interpretation of whether any detected changes in BPPH or BPP communities can be attributed to dredging and/or spoil disposal activities.	Post Dredging 6 months	Dredging is still in process – post dredging surveys are yet to be conducted.	Not applicable

Audit Code	Subject	Action	When	Evidence	Status
4: DSDMP p104	Benthic Primary Producer Habitat Monitoring	If change in BPPH is detected in pre- versus post-dredging data, and is considered to be a consequence of dredging or spoil disposal activities, summed BPPH losses will be compared against allowable limits described under Condition 8-1 of the Ministerial Statement 840.	Post Dredging 6 months	Dredging is still in process – post dredging surveys are yet to be conducted.	Not applicable
5: DSDMP p105	Benthic Primary Producer Habitat Monitoring	BPPH monitoring will be undertaken at 19 sites, consisting of the existing 13 coral health survey sites (SKM 2010) plus an additional six potential impact sites (Table 5-3). The six additional BPPH monitoring sites were selected in representative areas containing BPPH on the south east tip of Bezout Island (three additional sites), the tip of Cape Lambert (one additional site) and on the east of Middle Reef (two additional sites).	Post Dredging 3 months after completion of 6 month post survey	Refer to the Benthic Primary Producer Habitat (BPPH) Monitoring Report (Subtidal) (RTIO-HSE-0071727).	Compliant
6: DSDMP p105	Benthic Primary Producer Habitat Monitoring	At 6 months and 18 months from completion of dredging, the Proponent shall report to the CEO the permanent loss of BPPH and any loss of BPP communities within the six local assessment units shown. The reports shall include co-ordinates and a map showing the areas of loss of BPPH and BPP communities caused by the proposal and the results of water quality monitoring correlated with Coral health (Condition 8-10, Ministerial Statement 840). These reports will also be provided to DSEWPAC.	Prior to and Post Dredging	Dredging is still in process – post dredging surveys are yet to be conducted.	Not applicable
7: DSDMP p114	Benthic Primary Producer Habitat Monitoring	Comparison of pre dredging BPPH survey with the 6 month post dredging survey results (CEO, DSEWPAC, DEC)	submitted within 3 months of completion of 6 month BPPH survey	Dredging is still in process – post dredging surveys are yet to be conducted.	Not applicable
8: DSDMP p114	Benthic Primary Producer Habitat Monitoring	Comparison of pre dredging BPPH survey, 6 and 18 month post dredging survey results (CEO, DSEWPAC, DEC)	submitted within 3 months of completion of 18 month BPPH survey	Dredging is still in process – post dredging surveys are yet to be conducted.	Not applicable

Audit Code	Subject	Action	When	Evidence	Status
9: DSDMP p18	DEAG	A Dredging Environmental Advisory Group (DEAG) is proposed to be established by the Proponent prior to the commencement of the dredging and spoil disposal activities.	Prior to Dredging	The CLB DEAG was established on 11 October 2010, prior to the commencement of dredging activities (December 22, 2010), as required. Refer to DEAG 1 minutes (RTIO-HSE-0101133).	Compliant
10: DSDMP p18	DEAG	The DEAG will essentially be an internal advisory group to assist the Proponent. As well as the Proponent, the DEAG may consist of representatives from the following: EPCM, DEC (optional), Marine Contractor, Dampier Port Authority (DPA).		DEAG consists of representatives from SKM EPCM, RTIOEP, SKM Durack and AIMS.	Compliant
11: DSDMP p18	DEAG	The DEAG will be chaired by an independent advisor, who will, in consultation with the Proponent invite further environmental and technical advisors as appropriate. This may include a specialist in coral ecology.		DEAG is chaired by Des Lord who is independent of RTIO and its contractors. Independent advice on coral ecology provided by Andrew Hayward (Australian Institute of Marine Science); refer to DEAG minutes.	Compliant

Audit Code	Subject	Action	When	Evidence	Status
12: DSDMP p18	DEAG	<p>The DEAG will provide advice to the Proponent with respect to the environmental management of the dredging and spoil disposal activities. This may include, but not limited to the following:</p> <ol style="list-style-type: none"> 1. Provide advice to the proponent on suitable management actions / options which could be implemented by the proponent in the event that net coral mortality has exceeded a particular trigger level. 2. Provide incident-specific advice on which management options should apply on a case-by-case basis if a limit has been exceeded or is likely to be exceeded. 3. Provide regular briefings to the DEC should that be required or requested. 4. Provide input in relation to the review of individual trigger values based on current knowledge of the site specific relationship between water quality and coral health obtained during the dredging program. 		<p>Refer to the following DEAG minutes:</p> <p>DEAG 1: RTIO-HSE-0101133 DEAG 2: RTIO-HSE-0106050 DEAG 3: RTIO-HSE-0106047 DEAG 4: RTIO-HSE-0106374 DEAG 5: RTIO-HSE-0110969 Extraordinary 1: RTIO-HSE-0107309 DEAG 6: RTIO-HSE-0110971 DEAG 7: RTIO-HSE-0111025 Extraordinary 2: RTIO-HSE-0110905 DEAG 8: RTIO-HSE-0111026 DEAG 9: RTIO-HSE-0111732 DEAG 10: RTIO-HSE-0112438 DEAG 11: RTIO-HSE-0113247 DEAG 12: RTIO-HSE-0114225 DEAG 13: RTIO-HSE-0114729 DEAG 14: RTIO-HSE-0115373 DEAG 15: RTIO-HSE-0118410 DEAG 16: RTIO-HSE-0119379 DEAG 17: RTIO-HSE-0120393 DEAG 18: RTIO-HSE-0121405 DEAG 19: RTIO-HSE-0122426 DEAG 20: RTIO-HSE-0123487 DEAG 21: RTIO-HSE-0124753 DEAG 22: RTIO-HSE-0125830 DEAG 23: RTIO-HSE-0127543 DEAG 24: RTIO-HSE-0128287 DEAG 25: RTIO-HSE-0129783 DEAG 26: RTIO-HSE-0130813 DEAG 27: RTIO-HSE-0131877 DEAG 28: RTIO-HSE-0132523 DEAG 29: RTIO-HSE-0134699 DEAG 30: RTIO-HSE-0135511 DEAG 31: RTIO-HSE-0136609 DEAG 32: RTIO-HSE-0137736 DEAG 33: RTIO-HSE-0140198 DEAG 34: RTIO-HSE-0140473 DEAG 37: RTIO-HSE-0144363 DEAG 38: RTIO-HSE-0148365 DEAG 39: RTIO-HSE-0156072</p>	Compliant

Audit Code	Subject	Action	When	Evidence	Status
13: DSDMP p18	DEAG	Specific details regarding the DEAG formulation, meeting frequency, meeting structure and reporting requirements will be established by the DEAG after its formation.	After formation of DEAG	The DEAG have prepared a Modis Operandi which outlines the DEAG's objectives, members, meeting frequency, communications, amendments for the Modus Operandi and dissolution of the DEAG (RTIO-HSE-0106049).	Compliant
14: DSDMP p18	DEAG	An initial kick-off meeting would be held prior to the commencement of dredging and spoil disposal activities, during which a briefing will be provided on project, environmental monitoring and the terms of reference of the DEAG.	Prior to 22 December 2010	Two meetings were held prior to dredging and the topics discussed included the final Modus Operandi, dredging program update, marine monitoring program update and scenario planning. Refer to the meeting minutes for DEAG 1 (RTIO-HSE-0101133) and DEAG 2 (RTIO-HSE-0106050).	Compliant
15: SD2008/822 Condition 9	Disposal Sites	Pilbara Iron Pty Ltd must dump only within the disposal site(s) prescribed by the following MGA94 (Zone 50) coordinates: (refer to SDP for Spoil Ground One, Two and Three Coordinates).		Refer to the GPS start and finish dumping coordinates (RTIO-HSE-0159557), daily dredging reports (RTIO-HSE-0159562) and dumping track plots (RTIO-HSE-0159566).	Compliant
16: SD2008/822 Condition 10	Disposal Sites	Pilbara Iron Pty Ltd must establish by GPS that, prior to dumping, the vessel is within the disposal site(s) defined in Condition 9.		Refer to the GPS start and finish dumping coordinates (RTIO-HSE-0159557), daily dredging reports (RTIO-HSE-0159562) and dumping track plots (RTIO-HSE-0159566).	Compliant
17: SD2008/822 Condition 17	Dredging	Pilbara Iron Pty Ltd must ensure that all persons engaged in the dumping activities under this permit, including the owner(s) and person(s) in charge of the vessel, comply with this permit and the requirements of the Act.		SKM undertake inductions outlining the conditions that must be complied with and note the legal compliance documents including the sea dumping permit. Refer to SKM Contractor Audits (RTIO-HSE-0159568, RTIO-HSE-0159569,	Compliant

Audit Code	Subject	Action	When	Evidence	Status
				RTIO-HSE-0159574).	
18: DSDMP p19	Dredging	Up to 14 Mm ³ of both consolidated and unconsolidated material will be dredged using a combination of Trailing Suction Hopper Dredges (TSHD), a Cutter Suction Dredge (CSD) and a Backhoe Dredge (BHD).		Dumped volumes are compared against the permissible volume within daily dredging reports (RTIO-HSE-0159562).	Compliant
19: DSDMP p19	Dredging	Should drilling and blasting be required, a separate Drilling and Blasting Management Plan will be provided to the determining authorities for approval prior to works being undertaken.	Prior to Drill and Blast Work	No drilling and/or blasting has, or is likely to, occur during the dredging program.	Compliant
20: DSDMP p19	Dredging	Dredging activities will be carried out 24 hours per day, seven days per week during the dredging program, except during coral spawning periods, and in the event dredging is halted for maintenance and/or extreme weather events (i.e. cyclone).		Dredging activities were suspended between March 22 to April 2, 2011, due to a predicted mass coral spawning event, as evidenced in daily reports (RTIO-HSE-0129509). The DSEWPaC (RTIO-HSE-0110977) and WA OEPA (RTIO-HSE-0110978) were notified regarding the predicted coral spawn.	Compliant
21: DSDMP p20	Dredging	In the unlikely event that any consolidated material cannot be directly crushed by the CSD, it will be pre-treated using the drilling and blasting spread		No drilling and/or blasting has, or is likely to, occur during the dredging program.	Not applicable
22: DSDMP pp19-20	Dredging	Consolidated material which cannot be directly dredged by the TSHD will initially be crushed using the CSD. The crushed material will be placed on the seabed either directly behind the underwater pump of the CSD or pumped a short distance via a floating pipeline and placed on the seabed via a diffuser. The crushed material will then be dredged by the TSHD and relocated for disposal at the offshore spoil disposal grounds. This CSD method may also be used to remove consolidated material from locations not accessible to the TSHD due to vessel draught constraints.		A cutter suction dredge, the <i>MV Castor</i> , has been utilized as part of the Cape Lambert B dredging program, as required.	Compliant

Audit Code	Subject	Action	When	Evidence	Status
23: DSDMP p8	Dredging	<p>The dredging and spoil disposal activities will be conducted in a manner that is consistent with the following international conventions:</p> <ul style="list-style-type: none"> • International Convention for the Prevention of Pollution from Ships, 1973, as modified by the protocol of 1978 relating thereto (MARPOL 73/78); • London Convention on the Prevention of Marine Pollution by Dumping of Waste and Other Matter 1972, as modified by the 1996 Protocol relating thereto (the 'London Convention'); and • International Convention for the Control and Management of Ship's Ballast Water and Sediments (note: subject to ratification by the International Maritime Organisation (IMO)). 		<p>Refer to CLB Marine Vessel IMO Certificates (RTIO-HSE-0159736).</p> <p><i>MV Mimar Sinan</i> disposed approximately 9m3 of treated sewage to the marine environment within 3nm of the nearest land, as detailed within incident report #1000107024.</p>	Non-compliant
24: DSDMP p54	Dredging	<p>The following management measures will be implemented throughout the dredging and spoil disposal program:</p> <ol style="list-style-type: none"> A turbidity reducing valve will be used within the overflow pipe of each TSHD. Overflow levels will be raised to the highest allowable point during spoil transport to ensure minimum spillage of sediment. Hopper door seals will be maintained in good condition to ensure minimum loss of sediment during transport. Sailing routes will be selected to minimise the generation of propeller wash. Hopper de-watering will be confined to the dredging and spoil disposal areas. Well maintained and properly calibrated dredging vessels will be used. Vessels will include features such as on-line visualisation of bathymetric charts, loading diagrams, production statistics and vessel movement. 		<ol style="list-style-type: none"> The dredge operators confirmed that a turbidity reducing valve is fitted to the THSD (RTIO-HSE-0123380). The dredge operators confirmed that the overflow levels are set to high while sailing (RTIO-HSE-0123380). The TSHD hopper door seals were replaced in September, 2011, during the vessel's 5-yearly survey. Sailing routes are selected to minimise propeller wash. All dredging and dumping activities have occurred within the approved areas. The TSDH underwent its 5-yearly survey in Singapore during September 2011. All vessel movements are electronically recorded and included within weekly dumping reports (RTIO-HSE-0123380). 	Compliant

Audit Code	Subject	Action	When	Evidence	Status
25: SD2008/822 Condition 18	Dredging	Pilbara Iron Pty Ltd must keep records comprising either weekly plotting sheets or a certified extract of the ship's log which detail: (a) the times and dates of when each dumping run is commenced and finished; (b) the position (as determined by GPS) of the vessel at the beginning and end of each dumping run, with the inclusion of the path of each dumping run; and (c) the volume of dredge material (in-situ cubic metres) dumped and quantity in dry tonnes and compare these quantities with the total amount permitted under the permit on a daily basis. These records are to be retained by Pilbara Iron Pty Ltd for verification and audit purposes.		Refer to the GPS start and finish dumping coordinates (RTIO-HSE-0159557), daily dredging reports (RTIO-HSE-0159562) and dumping track plots (RTIO-HSE-0159566).	Compliant
26: SD2008/822 Condition 19	Dredging	A bathymetric survey of the disposal sites must be undertaken by Pilbara Iron Pty Ltd: (a) prior to the commencement of dredging under this permit; and (b) within one month of the completion of all dumping activities authorised under this permit.		Pre-dredge bathymetry surveys were undertaken during November 2010 (RTIO-HSE-0103416). Dredging is still in process – post dredging surveys are yet to be conducted.	Compliant
27: SD2008/822 Condition 20	Dredging	Within two (2) months of the final bathymetric survey being undertaken, Pilbara Iron Pty Ltd must provide a digital copy of each of the bathymetric surveys to the RAN Hydrographer, Locked Bag 8801, South Coast Mail Centre, NSW 2521.		Dredging is still in process – post dredging surveys are yet to be conducted.	Not applicable
28: SD2008/822 Condition 21	Dredging	Pilbara Iron Pty Ltd must provide a report on the bathymetry to the Department within two (2) months of the final bathymetric survey being undertaken. The report must include a chart showing the change in sea floor bathymetry as a result of dumping and include written commentary on the volumes of dumped material that have been retained within the disposal site.		Dredging is still in process – post dredging surveys are yet to be conducted.	Not applicable

Audit Code	Subject	Action	When	Evidence	Status
29: DSDMP p115	Dredging	Weekly Plotting Sheets: - Times and dates of each dumping run. - Position and track plot of each dumping run. - Volume of each dumping run. (Retained for audit/reporting purposes).	Weekly	Refer to the GPS start and finish dumping coordinates (RTIO-HSE-0159557), daily dredging reports (RTIO-HSE-0159562) and dumping track plots (RTIO-HSE-0159566).	Compliant
30: DSDMP p115	Dredging	Spoil ground bathymetry: A digital copy of each of the bathymetry surveys (RAN Hydrographer)	Within two months of the final bathymetric survey being undertaken	Dredging is still in process – post dredging surveys are yet to be conducted.	Not applicable
31: DSDMP p115	Dredging	Spoil ground bathymetry: A report on the bathymetry, including a chart showing the change in seafloor bathymetry as a result of dumping and including a written commentary on the volumes of dumped material that have been retained within the disposal site (DSEWPac).	Within two months of the final bathymetric survey being undertaken	Dredging is still in process – post dredging surveys are yet to be conducted.	Not applicable
32: DSDMP p74	Drilling and Blasting	Any requirement for drilling and blasting activities to be undertaken will be identified during the early stages of the dredging program and will be based on the CSD's ability to cut the <i>in situ</i> rock.	Pre/Post Dredging (1month)	No drilling and/or blasting has, or is likely to, occur during the dredging program.	Not applicable
33: DSDMP p74	Drilling and Blasting	A marine drilling and blasting management plan will be developed at least two months prior to the commencement of such activity. The drilling and blasting management plan will be prepared in consultation with the DEC (and the State DoT and DoF) and DSEWPac in the event that marine drilling and blasting is required.		No drilling and/or blasting has, or is likely to, occur during the dredging program.	Not applicable

Audit Code	Subject	Action	When	Evidence	Status
34: DSDMP p74	Drilling and Blasting	<p>No drilling or blasting will be undertaken until a drilling and blasting management plan has been approved in writing by the Minister for the DSEWPaC. The plan will include the following:</p> <ul style="list-style-type: none"> • A description of the blast methodology • An assessment of the amount of drilling and blasting required including geographical extent • Nomination of the likely blast pressures and potential environmental impacts of these pressures • Monitoring for the presence of listed threatened and migratory species, including exclusion zones, prior to and during blasting • Commitments that any blasting activities will not be undertaken at night or during turtle nesting or hatchling seasons • Post blast inspection for injured fauna including management and reporting to the Department of injured fauna • Details of responsible parties for each action described in the BMP, including reporting requirements. 		No drilling and/or blasting has, or is likely to, occur during the dredging program.	Not applicable
35: DSDMP p74	Drilling and Blasting	In the event that marine drilling and blasting is required, the drilling and blasting management plan will be implemented and made publicly available.		No drilling and/or blasting has, or is likely to, occur during the dredging program.	Not applicable
36: DSDMP p75	Drilling and Blasting	<p>Monitoring to be developed as part of drilling and blasting plan</p> <p>Reporting: to be developed as part of drilling and blasting plan</p> <p>All incident reporting involving mortality of turtles or marine mammals will be reported (i.e. email/fax statement) to the DEC and DSEWPaC within 24 hours.</p>		No drilling and/or blasting has, or is likely to, occur during the dredging program.	Not applicable
37: SD2008/822 Condition 3	DSDMP	Pilbara Iron Pty Ltd must submit for the Minister's approval a DSDMP for managing the impacts on the environment, from the dredging and dumping activities, relating to the Cape Lambert Port B development as		Refer to DSEWPaC's original DSDMP approval (RTIO-HSE-0103134) and revised DSDMP approval (RTIO-HSE-0110438).	Completed

Audit Code	Subject	Action	When	Evidence	Status
		specified in the Application. Dredging and dumping must not commence until the DSDMP is approved by the Minister.			
38: SD2008/822 Condition 4	DSDMP	Pilbara Iron Pty Ltd may submit for the Minister's approval a revised version of the DSDMP specified under Condition 3. If the Minister approves such a revised DSDMP, that DSDMP must be implemented in place of the original DSDMP specified at Condition 3.		Refer to DSEWPaC's approval of revised DSDMP (RTIO-HSE-0110438).	Compliant
39: SD2008/822 Condition 5	DSDMP	If the Minister believes that it is necessary for the better protection of the environment to do so, the minister may request Pilbara Iron Pty Ltd to make specified revisions to the DSDMP as specified in Condition 3 and submit the revised DSDMP for the Minister's approval. If the Minister approves a revised DSDMP pursuant to this condition, Pilbara Iron Pty Ltd must implement that DSDMP instead of the original DSDMP specified at Condition 3.		No requests made by the Minister during this reporting period.	Compliant
40: SD2008/822 Condition 6	DSDMP	The DSDMP must be made available (electronically) on Pilbara Iron Pty Ltd website within 30 days of the DSDMP being approved by the Minister as specified in Condition 3.		Refer to http://www.riotintoironore.com/documents/Cape_Lambert_Port_B_development_-_DSDMP.pdf .	Compliant
41: DSDMP p78	Hydrocarbon and Chemical Management	<p>Bunkering will be undertaken at the Port of Dampier, the Cape Lambert Service Wharf, or over water as per results of risk assessments and operating procedures.</p> <ul style="list-style-type: none"> • A work instruction will be prepared to provide guidance to crew and staff with regards to minimising the risk of spills during bunkering • Bunkering will be undertaken using suitable equipment and experienced personnel who will continuously monitor the bunkering equipment and tanks. • Bunkering will not take place during adverse conditions 		Refer to CLB Marine Vessel Bunkering Records (RTIO-HSE-0159794) and CLB Van Oord Marine Vessel Bunkering Procedure (RTIO-HSE-0159795).	Compliant

Audit Code	Subject	Action	When	Evidence	Status
		<ul style="list-style-type: none"> Spill avoidance devices such as 'dry couplings' and spill trays will be employed. 			
42: DSDMP p78	Hydrocarbon and Chemical Management	The hydraulic system will be of high quality, well maintained and regularly inspected.		<p>The TSDH underwent its 5-yearly survey in Singapore during September 2011. Planned periodic maintenance is undertaken to ensure that the hydraulic is in good working order.</p> <p>Refer to SKM audit reports (RTIO-HSE-0159568, RTIO-HSE-0159569 and RTIO-HSE-0159574).</p>	Compliant
43: DSDMP p78	Hydrocarbon and Chemical Management	Each dredging vessel will be equipped with standard low pressure alarms and shut down systems to minimise hydrocarbon loss in the event of a burst hydraulic hose.		The dredging vessel is fitted with standard low pressure alarms and shut down systems, as confirmed by the dredging contractor and vessel audits (RTIO-HSE-0159568, RTIO-HSE-0159569 and RTIO-HSE-0159574).	Compliant
44: DSDMP p78	Hydrocarbon and Chemical Management	All chemicals and detergents will be stored below deck in appropriate holds.		Refer to SKM audit reports (RTIO-HSE-0159568, RTIO-HSE-0159569 and RTIO-HSE-0159574).	Compliant
45: DSDMP p78	Hydrocarbon and Chemical Management	Oil and grease drums will be stored below deck in appropriate holds. Hydrocarbons stored above deck will be stored within bunded areas to contain any leaks or spills.		Refer to SKM audit reports (RTIO-HSE-0159568, RTIO-HSE-0159569 and RTIO-HSE-0159574).	Compliant
46: DSDMP p79	Hydrocarbon and Chemical Management	The discharge of bilge waters will be undertaken in accordance with MARPOL 73/78 Annex I requirements. No bilge waters with an oil content of more than 15 parts per million will be discharged. Any discharge of bilge waters will be undertaken whilst en route with oil discharge monitoring, filtering and control systems operating.		All bilge waters are taken to shore. Approximately five tanks a week of sludge is transported to shore. No bilge water is discharged to the marine environment (RTIO-HSE-0123380).	Compliant
47: DSDMP p79	Hydrocarbon and Chemical Management	Drainage water that is potentially contaminated with hydrocarbons will be contained and directed into bilge waters tanks where practicable.		All drainage water potentially contaminated with hydrocarbons is directed into bilge tanks (RTIO-HSE-	Compliant

Audit Code	Subject	Action	When	Evidence	Status
				0123380).	
48: DSDMP p79	Hydrocarbon and Chemical Management	Spill response will be undertaken in accordance with the existing Cape Lambert Oil Spill Contingency Plan (OSCP)		No hydrocarbon or chemical spills occurred to the marine environment during this reporting period.	Not applicable
49: DSDMP p79	Hydrocarbon and Chemical Management	Each vessel will maintain a Ship Board Oil Pollution Emergency Plan (SOPEP) in accordance with Australia Government requirements and the MARPOL 73/78 convention		Refer to marine vessel SOPEPs (RTIO-HSE-0159725).	Compliant
50: DSDMP p79	Hydrocarbon and Chemical Management	Suitable and sufficient oil spill response equipment (spill response kits) including oil absorbent booms and pads will be available and easily accessible in case of a hydrocarbon spill		Refer to SKM audit reports (RTIO-HSE-0159568, RTIO-HSE-0159569 and RTIO-HSE-0159574).	Compliant
51: DSDMP p79	Hydrocarbon and Chemical Management	Only Australian Maritime Safety Authority (AMSA) approved dispersants will be used at any time.		No hydrocarbon or chemical spills occurred to the marine environment during this reporting period.	Not applicable
52: DSDMP p79	Hydrocarbon and Chemical Management	Audits of each vessels hydrocarbon and chemical handling procedures and equipment including spill kits will be undertaken before operations commence and on a regular ongoing basis by EPCM.		Refer to SKM audit reports (RTIO-HSE-0159568, RTIO-HSE-0159569 and RTIO-HSE-0159574).	Compliant
53: DSDMP p79	Hydrocarbon and Chemical Management	DSEWPaC will be notified (i.e. email, fax statement) within 24 hours of any hydrocarbon and chemical spills into marine environment. A report will be provided within a further 72 hours detailing management actions implemented.		No hydrocarbon or chemical spills occurred to the marine environment during this reporting period.	Not applicable
54: DSDMP p79	Hydrocarbon and Chemical Management	Reporting will be undertaken in accordance with the <i>National Greenhouse and Energy Reporting Act 2009 (NGER)</i>	monthly	Refer to Cape Lambert Expansion H1 2011 Data and Evidence (RTIO-HSE-0120378) and H2 2011 Data and Evidence (RTIO-HSE-0125021).	Compliant
55: DSDMP p115	Hydrocarbon and Chemical Management	Hydrocarbon Spill Report : Report on any hydrocarbon spills into the marine environment (DSEWPaC, DEC)	Per occasion, within 24	No hydrocarbon spills occurred to the marine environment during this reporting period.	Not applicable

Audit Code	Subject	Action	When	Evidence	Status
			hours of incident		
56: DSDMP p62	Marine Fauna Management	Prior to commencement of dredging and construction activities, all crew will receive training from a qualified person. This training will include details of procedures to be followed in the event of marine mammals sighting, injury or death	Prior to dredging	Refer to the Cape Lambert Port B Environmental Induction Dredging and Spoil Disposal Management (RTIO-HSE-0098862). Refer to the Marine Mammal Observer Training Presentation (RTIO-HSE-0107426).	Compliant
57: DSDMP p62	Marine Fauna Management	All sightings of marine mammals (except dolphins) will be recorded		Refer to the CLB General MFO Records Database – 2011 (RTIO-HSE-0129506).	Compliant
58: DSDMP p63	Marine Fauna Management	Marine mammal and turtle (except dolphin) observation and response procedures including the application of a 300 m exclusion zone will be implemented during dredging and spoil disposal activities	During dredging or construction	Refer to the CLB General MFO Records Database – 2011 (RTIO-HSE-0129506).	Compliant
59: DSDMP p63	Marine Fauna Management	A lookout will be maintained for cetaceans while the dredge sails between the dredging area and spoil ground. In the event that a cetacean is sighted, vessels speeds and direction will be adjusted to avoid impacting on the observed individual (within the safety constraints of the vessel).		Refer to the CLB General MFO Records Database – 2011 (RTIO-HSE-0129506).	Compliant
60: DSDMP p63	Marine Fauna Management	Turtle exclusion devices will be used, where practicable, on the TSHD when dredging in areas with an under keel clearance in excess of 5 m (safety reasons preclude the use of these devices in shallower water). These devices will be of a similar type to that used commonly during dredging projects in WA waters.		Chains are installed on the TSHD drag heads (RTIO-HSE-0123380). Refer to SKM audit reports (RTIO-HSE-0159568, RTIO-HSE-0159569 and RTIO-HSE-0159574).	Compliant
61: DSDMP p63	Marine Fauna Management	When dredging operations allow the use of the water jetting system, the jets will be used to direct sea turtles away from the drag head thus avoiding direct contact. In this case, the jets will be switched on before the dredge pump is started and will remain on until after the dredge pump is stopped. This operation is not possible during the dredging of low density sediments		There were no turtle injuries or mortalities attributable to construction works during this reporting period. Water jetting is used when the TSHD	Compliant

Audit Code	Subject	Action	When	Evidence	Status
		due to the tendency for the jets to stir up the sediment and create additional turbidity.		dredges rocky material.	
62: DSDMP p63	Marine Fauna Management	The dredge pump will be stopped as soon as possible after the completion of dredging. Where practical within the requirements of the dredging operations, the drag head will not be lifted more than four metres above the seabed until the dredge pump is stopped.		Dredge pumps are generally turned off before the drag heads leave the bottom. The pumps are turned off before the water jets (RTIO-HSE-0123380).	Compliant
63: DSDMP p63	Marine Fauna Management	In conjunction with the management actions outlined within this section of the DSDMP, the Cape Lambert Port B Marine Turtle Management Plan will be implemented along with any subsequent plans prepared.		Refer to the Cape Lambert Port B Marine Turtle Management Plan compliance assessment (RTIO-HSE-0131733).	Compliant
64: DSDMP p63	Marine Fauna Management	Light levels from the dredging works will be limited to those lights that are necessary for the safe operation of the vessels.		Light levels are limited to those that are safe for working. This includes lighting approximately 100 m surrounding the vessel. Lights are not directed into the water (RTIO-HSE-0123380).	Compliant
65: DSDMP p63	Marine Fauna Management	Operational lights will not be directed towards the sea unless required for the safe operation of the vessel.		Operational lights are not directed towards the sea however they do overflow a radius of approximately 100 m (RTIO-HSE-0123380).	Compliant
66: DSDMP p63	Marine Fauna Management	Operational lights will not be directed towards Cooling Water Beach during turtle nesting season.		Lights are not directed off the vessel (RTIO-HSE-0123380).	Compliant
67: DSDMP p63	Marine Fauna Management	In the event turtle injury or mortality occurs, as a result of the port B development. Pilbara Iron will undertake an investigation. The investigation will inform the implementation of three trigger levels to guide the management response. Provisional triggers include: Level 1 - an injured or dead turtle is found that is attributable to proposal-related activities		There were no turtle injuries or mortalities attributable to construction works during this reporting period.	Not applicable

Audit Code	Subject	Action	When	Evidence	Status
		Should it be determined that current management measures are not being followed, appropriate action will be taken to correct this deficiency. If management measures are being followed, an increased level of observation for further injured or dead turtles will be implemented over the following week.			
68: DSDMP p64	Marine Fauna Management	<p>Level 2 - Three injured or dead turtles are found per seven-day period, or six per 28-day period, that are attributable to proposal-related activities</p> <p>A review of current management measures will be undertaken in consultation with the DEAG to identify alternative or additional practical management measures that could be undertaken. While the review is undertaken, interim management measures to prevent possible source, or sources of harm will be implemented, where practicable, to reduce the risks of further turtle injury or mortality.</p>		There were no turtle injuries or mortalities attributable to construction works during this reporting period.	Not applicable
69: DSDMP p64	Marine Fauna Management	<p>Level 3 - Four injured or dead turtles are found per seven-day period, or nine per 28-day period, that are attributable to proposal-related activities</p> <p>Immediate action will be taken to implement alternative and/or additional management measures to the likely source, or sources of harm, including temporary relocation or suspension of activities. A review of management measures will be undertaken in consultation with the DEAG to identify longer-term alternatives or additional management measures to reduce the risks of further turtle injury or mortality.</p>		There were no turtle injuries or mortalities attributable to construction works during this reporting period.	Not applicable
70: DSDMP p64	Marine Fauna Management	For Level 2 or 3 incidents, records of injury or casualty are made on a rolling-day or rolling-monthly basis, i.e. A count on Day 8 will be totalled for the previous 7 day period... Following the implementation of management actions associated with an event, the effectiveness of the process and actions shall be periodically reviewed. The results will guide the adaptive management decisions and further actions as required.		There were no turtle injuries or mortalities attributable to construction works during this reporting period.	Not applicable

Audit Code	Subject	Action	When	Evidence	Status
71: DSDMP p64	Marine Fauna Management	Marine mammal and turtle activity will be monitored throughout the dredging and spoil disposal activities as part of the marine mammal management procedures (Figure 4-4 and Figure 4-5).		Refer to the CLB General MFO Records Database – 2011 (RTIO-HSE-0129506).	Compliant
72: DSDMP p64	Marine Fauna Management	Should marine mammals be sighted, all relevant vessels operating in the area as a component of the Cape Lambert Port B development will be notified.		All relevant CLB marine vessels are notified by radio in the event that marine mammals are sighted (RTIO-HSE-0123380).	Compliant
73: DSDMP p64	Marine Fauna Management	Marine mammal and turtle (except dolphins) sightings will be recorded		Refer to the CLB General MFO Records Database – 2011 (RTIO-HSE-0129506).	Compliant
74: DSDMP p64	Marine Fauna Management	Marine mammal and turtle (including dolphins) injury and mortality incidents to be reported (i.e. email/fax statement) to the DEC and DSEWPaC within 24 hours of detection.		There were no marine mammal or turtle injuries or mortalities attributable to construction works during this reporting period.	Not applicable
75: DSDMP p64	Marine Fauna Management	This strategy will be implemented in conjunction with the Cetacean Management Plan and the Marine Turtle Management Plan that have been prepared for the Port B development.		Refer to the Cape Lambert Port B Marine Turtle Management Plan (RTIO-HSE-0131733) and Cetacean Management Plan (RTIO-HSE-0131734) compliance assessments.	Compliant
76: DSDMP pp62-63	Marine Fauna Management	All turtles and marine mammal (including dolphin) injury and mortality incidents will be recorded and reported (i.e. email/fax statement) to the DEC and DSEWPaC within 24 hours.	within 24 hours of incident	There were no marine mammal or turtle injuries or mortalities attributable to construction works during this reporting period.	Not applicable
77: SD2008/822 Condition 12	Marine Fauna Management	Before beginning dumping activities, Pilbara Iron Pty Ltd must check, using binoculars from a high observation platform on the vessel, for cetaceans or dugongs within the monitoring zone.		Trained marine fauna observers are stationed on dredge vessels equipped with binoculars (RTIO-HSE-0123380).	Compliant
78: SD2008/822 Condition 13	Marine Fauna Management	If any cetaceans or dugongs as specified in Condition 12 are sighted in the monitoring zone, dredging/dumping activities must not commence until 20 minutes after the last cetacean or dugong is observed to leave the monitoring zone or the dredge is to move to another area of the dredge/disposal site to maintain a minimum distance of 300 m between the vessel and any cetacean or dugong identified in Condition 12.		CLB General MFO Records Database – 2011 (RTIO-HSE-0129506).	Compliant

Audit Code	Subject	Action	When	Evidence	Status
79: DSDMP p114	Marine Fauna Management	Marine Fauna Incident Reports: Details of incidents involving injury or mortality to turtle or marine mammals (DEC, DSEWPaC).	Per occasion (within 24 hours of incident)	There were no marine mammal or turtle injuries or mortalities attributable to construction works during this reporting period.	Not applicable
80: DSDMP p114	Plume dispersal modelling	Results from model validation study (DEC)	upon completion of monitoring program	Dredging campaign is still in process.	Not applicable
81: DSDMP p115	Reporting and auditing	A compliance audit schedule will be developed based on the conditions contained within the various approvals documents. The finalised audit criteria schedule will be provided to the DEC and DSEWPaC for approval.		EPBC 2008/4032: refer to Section 5 of the Cape Lambert Port B Development: 2010 Compliance Assessment EPBC 2008/4032 (RTIO-HSE-0160590). Ministerial Statement 840: refer to Cape Lambert Port B Development Compliance Assessment Plan Ministerial Statement 840 (RTIO-HSE-0100106).	Compliant
82: DSDMP p116	Reporting and auditing	The proponent will submit to the CEO of the OEPA environmental compliance reports annually, reporting on the previous twelve-month period. The environmental compliance reports will address each element of the audit program (Appendix D).	every 12 months	Refer to the Cape Lambert Port B Development Ministerial Statement 840 Annual Compliance Assessment Report 2011 (RTIO-HSE-0132047).	Compliant
83: DSDMP p116	Reporting and auditing	An independent audit of compliance with this DSDMP and the relevant SDP will be conducted by an approved auditor. The audit criteria and the independent auditor will be approved by DSEWPaC prior to the commencement of the audit. This audit will be undertaken as per the requirement of the SDP and EPBC approval. A report on the audit results will be provided to the DSEWPaC once completed.		No independent audit compliance assessments were conducted during this reporting period. RTIO have contacted the DSEWPaC regarding whether the independent audit conducted by Oceanica during 2010/2011 meets / completes this requirement. The DSEWPaC have not provided a response as yet (RTIO-HSE-0159139).	Not applicable

Audit Code	Subject	Action	When	Evidence	Status
84: DSDMP p116	Reporting and auditing	Upon request, at least two Australian government nominees will be afforded access to witness, inspect, examine or audit any part of the operations, including any dumping or monitoring activity, the vessel or any other equipment, or any documented records, and are to be provided with any necessary assistance in carrying out their duties.		No requests were made during this reporting period.	Not applicable
85: SD2008/822 Condition 11	Reporting and auditing Access for Observers	At least two nominees of the Department are to be afforded access to witness, inspect, examine or audit any part of the operations, including any dumping or monitoring activity, the vessel or any other equipment, or any documented records, and are to be provided with any necessary assistance in carrying out their duties.		Department members Dennis Snowden and Darryl Venables visited the Cape Lambert Port B Development during June 2011, all necessary access was provided.	Compliant
86: SD2008/822 Condition 7	Spoil disposal	Pilbara Iron Pty Ltd must ensure that the dredged material which is loaded and dumped comprises only up to 14 million cubic metres of capital seabed material as detailed in the application.		Dumped volumes are compared against the permissible volume within daily dredging reports (RTIO-HSE-0159562).	Compliant
87: SD2008/822 Condition 8	Spoil disposal	Pilbara Iron Pty Ltd must ensure that each load of dredged material is dumped so that the overall dredge material is distributed evenly over the disposal site(s) specified in Condition 9.		Refer to the GPS start and finish dumping coordinates (RTIO-HSE-0159557), daily dredging reports (RTIO-HSE-0159562) and dumping track plots (RTIO-HSE-0159566).	Compliant
88: DSDMP p22	Spoil disposal	All spoil generated during the dredging activities will be disposed at designated existing offshore spoil disposal grounds.		Refer to the GPS start and finish dumping coordinates (RTIO-HSE-0159557), daily dredging reports (RTIO-HSE-0159562) and dumping track plots (RTIO-HSE-0159566).	Compliant
89: DSDMP p22	Spoil disposal	The locations and coordinates of each of these offshore spoil grounds are shown in Table 2-2 and Figure 2-1. The capacity of these spoil grounds is sufficient to accommodate the requirement of the proposed dredging program.		As detailed within the Cape Lambert Port B Development Public Environmental Review and the Sea Dumping Permit Application, the spoil grounds are sufficiently sized to accommodate the project's requirements.	Compliant

Audit Code	Subject	Action	When	Evidence	Status
90: DSDMP p22	Spoil disposal	Small amounts of Tributyltin (TBT) is already contained within Spoil Ground 1, this material will be capped using uncontaminated material dredged during the Port B development dredging program.		All material dredged as part of the Cape Lambert Port B development is uncontaminated. Spoil Ground 1 was the most actively used spoil ground during this reporting period. Refer to the GPS start and finish dumping coordinates (RTIO-HSE-0159557), daily dredging reports (RTIO-HSE-0159562) and dumping track plots (RTIO-HSE-0159566).	Compliant
91: DSDMP p22	Spoil disposal	Uncontaminated material will be strategically placed over the spoil ground, as previously agreed with DSEWPaC, to ensure that the resident TBT is capped by a sufficient layer of clean sediment.		Refer to the GPS start and finish dumping coordinates (RTIO-HSE-0159557), daily dredging reports (RTIO-HSE-0159562) and dumping track plots (RTIO-HSE-0159566).	Compliant
92: DSDMP p76	Spoil Ground Management	Establish by Differential Global Positioning System that immediately prior to dumping the vessel is within an approved disposal site		The <i>MV Rotterdam</i> has three different positioning systems and at least two of these have to be in operation in order for the dredge to operate (RTIO-HSE-0123380).	Compliant
93: DSDMP p76	Spoil Ground Management	Each load of dredged material will be disposed evenly over the area within the spoil grounds		Refer to the GPS start and finish dumping coordinates (RTIO-HSE-0159557), daily dredging reports (RTIO-HSE-0159562) and dumping track plots (RTIO-HSE-0159566).	Compliant
94: DSDMP p76	Spoil Ground Management	The hopper doors on the TSHD will be completely closed prior to leaving the disposal ground at the end of each spoil disposal event.		Hopper doors are always closed prior to leaving the disposal ground as they as the vessel cannot sail at full speed with the doors open (RTIO-HSE-0123380). Refer to the GPS start and finish dumping coordinates (RTIO-HSE-0159557), daily dredging reports	Compliant

Audit Code	Subject	Action	When	Evidence	Status
				(RTIO-HSE-0159562) and dumping track plots (RTIO-HSE-0159566).	
95: DSDMP p76	Spoil Ground Management	Any dredge used in connection with the disposal activities and any associated towing vessels must comply with the relevant state, national or international standards with respect to seaworthiness, safety and environmental requirements, or any rules or conditions laid down by the certifying classification society, and be capable of disposing dredge material at the disposal locations in accordance with the SDP.		The Van Oord head office in Rotterdam reviews all relevant standards to ensure that vessels are compliant.	Compliant
96: DSDMP p76	Spoil Ground Management	Surveyed dredged quantities (net measured <i>in situ</i> prior to dumping) will be recorded and compared daily to the approved disposal quantities.		Refer to the GPS start and finish dumping coordinates (RTIO-HSE-0159557), daily dredging reports (RTIO-HSE-0159562) and dumping track plots (RTIO-HSE-0159566).	Compliant
97: DSDMP p76	Spoil Ground Management	Bathymetric surveys will be undertaken on all spoil grounds within one month and again within 12 months of the completion of all disposal activities, authorised under the SDP. A digital copy of each of the bathymetric surveys will be provided to the RAN hydrographer.		Dredging is still in process – post dredging surveys are yet to be conducted.	Not applicable
98: DSDMP p76	Spoil Ground Management	Weekly plotting sheets including the following are to be retained for audit purposes: a) the times and dates of when each dumping run is commenced and finished. b) The position (as determined by GPS) of the vessel at the beginning and end of each disposal run, with the inclusion of the path of each disposal run. c) A means of estimating the volume of dredge spoil (in cubic meters) disposed and quantity in dry tonnes at each of the disposal sites for the specified operational period.		Refer to the GPS start and finish dumping coordinates (RTIO-HSE-0159557), daily dredging reports (RTIO-HSE-0159562) and dumping track plots (RTIO-HSE-0159566).	Compliant
99: DSDMP p76	Spoil Ground Management	Within two months of the final bathymetric survey being undertaken, a digital copy of each of the bathymetric survey will be provided to the RAN Hydrographer.		Dredging is still in process – post dredging surveys are yet to be conducted.	Not applicable

Audit Code	Subject	Action	When	Evidence	Status
100: DSDMP p77	Spoil Ground Management	A report on the bathymetric surveys will be provided to the DSEWPaC within two months of the final bathymetric survey being undertaken. This report will include a chart showing the change in sea floor bathymetry as a result of disposal and include written commentary on the volume of disposed material that appears to have been retained within each of the spoil grounds.		Dredging is still in process – post dredging surveys are yet to be conducted.	Not applicable
101: DSDMP p77	Spoil Ground Management	To facilitate annual reporting to the International Maritime Organization, the proponent will report to the Minister by 31 January each year, including on the day of the expiry of the sea dumping permit or completion of all dredging under the sea dumping permit, information at appendix 2 to the sea dumping permit, or in a format as approved by the Minister from time to time.		Refer to the Annual Report to the International Maritime Organisation for Sea Dumping at Cape Lambert Port B (Permit SD2008/822) for calendar year 01/01/2010 - 31/12/2010 (RTIO-HSE-0105146). Refer to the Annual Report to the IMO for Sea Dumping at Cape Lambert Port B (Permit SD2008-822) for calendar year 01.01.2011 - 31.12.2011 (RTIO-HSE-0134672).	Compliant
102: DSDMP p82	Vessel Management	Notice to Mariners will be issued prior to commencement of the dredging and disposal activities		The project's Notice to Mariners is available on the Western Australian Department of Transport website and is linked here: http://www.transport.wa.gov.au/mediaFiles/mar_Not2010143_CapeLambertDredgingSoilGround.pdf http://www.transport.wa.gov.au/mediaFiles/Not2012_26_DredgingCapeLambertPortWalcottWestPilbara.pdf	Compliant
103: DSDMP p82	Vessel Management	Notices (e.g. signboards) will be posted at suitable locations such as John's Creek Marina, advising of the dredging activities		Refer to Figure 3.13 of RTIO-HSE-0123380.	Compliant

Audit Code	Subject	Action	When	Evidence	Status
104: DSDMP p82	Vessel Management	An opportunity for residents from nearby towns to be advised/briefed on the pending dredging works will be provided through an information session that will be advertised in the local newspaper		Dredging works did not commence during this reporting period. Dredging updates were routinely provided to the Point Samson Community Association during routine monthly meetings, as evidenced in the Association's minutes.	Not applicable
105: DSDMP p82	Vessel Management	A lookout will be maintained from the dredges at all times		Crew on the bridge keep a lookout for other vessels and that the navigation systems show surrounding vessels on screen (RTIO-HSE-0123380).	Compliant
106: DSDMP p82	Vessel Management	All port related vessels will be made aware of the locations of the dredges and associated equipment such as floating or submerged pipelines, cables and support vessels. Information will be exchanged between involved parties with regards to planned shipping movements and dredging activities		Port related vessels are informed via radio of the locations of dredges and associated equipment (RTIO-HSE-0123380). All dredging activities / locations are conducted based on the project schedule. This schedule is available to the entire project team.	Compliant
107: DSDMP p82	Vessel Management	Prior to commencement of dredging and construction activities, all crew will receive training from a qualified person. This training will include details of procedures to be followed in the event of marine mammals sighting, injury or death	Prior to dredging	Marine mammal training has been carried out by Todd Jess, an accredited trainer (RTIO-HSE-0123380).	Compliant
108: DSDMP p82	Vessel Management	Marine mammals (except dolphin) observation and response procedures including the application of a 300 m exclusion zone will be implemented during dredging or spoil disposal		Refer to the CLB General MFO Records Database – 2011 (RTIO-HSE-0129506).	Compliant
109: DSDMP p82	Vessel Management	A lookout will be maintained for cetaceans while any dredging or construction vessels travel within the project area. In the event that a cetacean is sighted, vessels speeds and direction will be adjusted to avoid		Refer to the CLB General MFO Records Database – 2011 (RTIO-HSE-0129506).	Compliant

Audit Code	Subject	Action	When	Evidence	Status
		impacting on the observed individual (within the safety constraints of the vessel)			
110: DSDMP p82	Vessel Management	All sightings of marine mammals (except dolphins) will be recorded		Refer to the CLB General MFO Records Database – 2011 (RTIO-HSE-0129506).	Compliant
111: DSDMP p82	Vessel Management	All marine mammal (including dolphin) mortality incidents will be recorded and reported to the DEC and DSEWPaC within 24 hours.	within 24 hours of incident	No marine mammal mortalities have occurred to date.	Not applicable
112: DSDMP p82	Vessel Management	Reporting: Incidents will be reported as per the AMSA guidelines.		AMSA reporting does not refer to environmental incidents.	Not applicable
113: DSDMP p80	Waste Management	Solid waste will be placed in suitable containers (e.g. Skip bins) and recycled or disposed of via a licensed contractor		Waste is separated. All wastes are disposed of by a licensed contractor (RTIO-HSE-0123380). Refer to SKM audit reports (RTIO-HSE-0159568, RTIO-HSE-0159569 and RTIO-HSE-0159574). Refer to CLB Marine Vessel Waste Records (RTIO-HSE-0159740).	Compliant
114: DSDMP p80	Waste Management	Records of waste disposal will be kept (solid waste)		Refer to CLB Marine Vessel Waste Records (RTIO-HSE-0159740).	Compliant
115: DSDMP p80	Waste Management	Hazardous waste will be stored in an appropriate manner prior to disposal		Tox Free are the licensed contractor that remove hazardous wastes (RTIO-HSE-0123380). Refer to SKM audit reports (RTIO-HSE-0159568, RTIO-HSE-0159569 and RTIO-HSE-0159574). Refer to CLB Marine Vessel Waste Records (RTIO-HSE-0159740).	Compliant
116: DSDMP p80	Waste Management	Empty oil and chemical containers will be returned to the supplier for recycling where appropriate		Empty oil and chemical containers are removed by Tox Free (RTIO-HSE-	Compliant

Audit Code	Subject	Action	When	Evidence	Status
				0123380). Refer to SKM audit reports (RTIO-HSE-0159568, RTIO-HSE-0159569 and RTIO-HSE-0159574). Refer to CLB Marine Vessel Waste Records (RTIO-HSE-0159740).	
117: DSDMP p80	Waste Management	Hazardous waste will be disposed of via a licensed contractor to a licensed hazardous waste facility		Refer to CLB Marine Vessel Waste Records (RTIO-HSE-0159740).	Compliant
118: DSDMP p80	Waste Management	Records of disposal of hazardous wastes will be kept		Refer to CLB Marine Vessel Waste Records (RTIO-HSE-0159740).	Compliant
119: DSDMP p80	Waste Management	An IMO certified sewage treatment system will be used on all major vessels		Refer to IMO certificates (RTIO-HSE-0159736).	Compliant
120: DSDMP p80	Waste Management	All discharge of sewage and grey water will be conducted in accordance with the <i>Protection of the Sea (Prevention of Pollution from Ships) Act 1983</i> (Cwth) /MARPOL 73/78 requirements		<i>MV Mimar Sinan</i> disposed approximately 9m3 of treated sewage to the marine environment within 3nm of the nearest land, as detailed within incident report #1000107024.	Non-compliant
121: DSDMP p80	Waste Management	No untreated sewage will be discharged within 12 nm of the nearest land		No untreated sewage discharged within 12nm of the nearest land	Compliant
122: DSDMP p80	Waste Management	Sewage and grey water treated via an IMO approved system will not be discharged within 3 nm of the nearest land.		<i>MV Mimar Sinan</i> disposed approximately 9m3 of treated sewage to the marine environment within 3nm of the nearest land, as detailed within incident report CLB#269.	Non-compliant
123: DSDMP p80	Waste Management	Sewage and grey water from vessels without an International Maritime Organisation (IMO) approved system will be stored on board and discharged to shore via a licensed contractor.		Refer to IMO certificates (RTIO-HSE-0159736).	Compliant
124: DSDMP p81	Waste Management	Waste disposal records will be maintained and will be made available upon request		Refer to waste disposal records (RTIO-HSE-0159740).	Compliant
125: DSDMP p81	Waste Management	Reporting will be undertaken in accordance with the <i>National Greenhouse and Energy Reporting Act 2009</i> (NGER)		Cape Lambert Expansion H1 2011 Data and Evidence (RTIO-HSE-0120378).	Compliant

Audit Code	Subject	Action	When	Evidence	Status
				Cape Lambert Expansions H2 2011 Data and Evidence (RTIO-HSE-0125021).	
126: DSDMP p114	Coral Health and Water Quality Monitoring	Water Quality / Coral Health Monitoring: Results of the water quality/ coral monitoring program (DEC, DSEWPaC)	Two fortnightly surveys in each four weekly report, submitted 10 business days after the last monitoring field trip	Surveys D01 and D02: RTIO-HSE-0105614 Surveys D03 and D04: RTIO-HSE-0107842 Surveys D05 and D06: RTIO-HSE-0110021 Surveys D07 and D08: RTIO-HSE-0111464 Surveys D09 and D10: RTIO-HSE-0112862 Surveys D11 and D12: RTIO-HSE-0114560 Surveys D13 and D14: RTIO-HSE-0118200 Surveys D15 and D16: RTIO-HSE-0120074 Surveys D17 and D18: RTIO-HSE-0122367 Surveys D19 and D20: RTIO-HSE-0124390 Surveys D21 and D22: RTIO-HSE-0126924 Surveys D23 and D24: RTIO-HSE-0130311 Surveys D25 and D26: RTIO-HSE-0131651 Surveys D27 and D28: RTIO-HSE-0133638 Surveys D29 and D30: RTIO-HSE-0136219 Surveys D31 and D32: RTIO-HSE-0138889 Surveys D33 and D34: RTIO-HSE-	Compliant

Audit Code	Subject	Action	When	Evidence	Status
				0144036 Surveys D35 and D36: RTIO-HSE-0144041 Surveys D37 and D38: RTIO-HSE-0147162 Surveys D39 and D40: RTIO-HSE-0150628 Surveys D41 and D42: RTIO-HSE-0154271 Surveys D43 and D44: RTIO-HSE-0156707	
127: DSDMP p114	Coral Health and Water Quality Monitoring	Water Quality / Coral Health Final Report: Summary report detailing the water quality and coral health monitoring data collected during the dredging and post dredging monitoring period (DEC, DSEWPaC).	submitted within 3 months of completion of final water quality and coral health surveys	Dredging (and monitoring) is still in process – the final monitoring report will be produced post completion of dredging works.	Not applicable
128: DSDMP p96	Coral Health Monitoring	Routine site monitoring - throughout the duration of the dredging and spoil disposal activities monitoring of coral health will be undertaken at the impact, indicator, influence and reference sites.		Refer to condition 126.	Compliant
129: DSDMP p96	Coral Health Monitoring	Contingency site monitoring - in the event that water quality or coral health has deteriorated at the two primary reference sites, the two contingency reference sites will then be monitored		The primary reference sites continue to provide representative data and have not been replaced with the contingency reference sites.	Not applicable
130: DSDMP p96	Coral Health Monitoring	Following the completion of the dredging and spoil disposal activities, coral health monitoring will be undertaken at the impact, indicator, influence and reference sites, approximately every fortnight for a period of 2 months after the cessation of dredging.		Dredging is still in process – post dredging surveys are yet to be conducted.	Not applicable
131: DSDMP p96	Coral Health Monitoring	Impact sites - will be monitored fortnightly during the dredging program.		Refer to condition 126.	Compliant
132: DSDMP p97	Coral Health Monitoring	Indicator sites - These sites will be monitored at a fortnightly frequency throughout the dredging and spoil		Refer to condition 126.	Compliant

Audit Code	Subject	Action	When	Evidence	Status
		disposal program			
133: DSDMP p97	Coral Health Monitoring	Influence sites - coral monitoring at these sites will be carried out fortnightly		Refer to condition 126.	Compliant
134: DSDMP p97	Coral Health Monitoring	Reference sites - coral monitoring at these sites will be carried out fortnightly		Refer to condition 126.	Compliant
135: DSDMP p97	Coral Health Monitoring	Contingency reference sites - will be used in the unlikely event that the reported water quality data for one or more of the preferred reference sites shows anomalies that suggest they may be influenced by the dredging program.		The primary reference sites continue to provide representative data and have not been replaced with the contingency reference sites.	Not applicable
136: DSDMP p97	Coral Health Monitoring	<p>Sixty corals will be tagged, photographed and identified to genus level at each site. The selection of the corals will ensure, where possible that:</p> <ul style="list-style-type: none"> the colonies are representative of each site in terms of size, condition and position with respect to the seabed. at each site, corals from up to five genera are selected (where possible considering diversity and abundance at the site). corals chosen will include highly sensitive species (such as <i>Acropora</i>) and less sensitive species (such as <i>Porites</i>), whenever such genera are present in sufficient numbers. 		Refer to condition 126.	Compliant
137: DSDMP p98	Coral Health Monitoring	At each site, a target of a minimum of fifty tagged corals (identified to species level) will be examined each fortnight to determine the per cent live coral cover. This subset will be used at a minimum from the sixty tagged corals to allow for damage/loss of some coral colonies over the life of the program or to account for some unusable images or data.		Refer to condition 126.	Compliant
138: DSDMP p98	Coral Health Monitoring	<i>In situ</i> observations on coral colour, predation and sediment cover will also be made to inform the interpretations of observed partial or full mortalities of coral during the monitoring program.		Refer to condition 126.	Compliant

Audit Code	Subject	Action	When	Evidence	Status
139: DSDMP p98	Coral Health Monitoring	Coral mortality will be assessed by analysing each coral photo with Coral Point Counter with Excel extensions.		Refer to condition 126.	Compliant
140: DSDMP p98	Coral Health Monitoring	<p>Corals will be scored using the CPCe program. The extent of each coral will be overlain by a symmetrical 9 by 9 grid. Points falling outside the perimeter of the coral colony will be excluded from analysis and points falling within the perimeter will be scored as one of the following:</p> <ol style="list-style-type: none"> 1. live coral; 2. pale coral (potentially bleached); 3. white coral (potentially bleached); 4. dead coral; 5. sediment; 6. turf algae; 7. coral disease; 8. encrusting sponge; and 9. unknown. 		Refer to condition 126.	Compliant
141: DSDMP p98	Coral Health Monitoring	The analysis of mortality and bleaching for at least 50 colonies from each site will be used to estimate an average level for each site.		Refer to condition 126.	Compliant
142: DSDMP pp98-99	Coral Health Monitoring	<p>To assess whether observed coral bleaching or coral mortality exceeds management trigger levels at influence and indicator sites, a two level approach to analysis and interpretation will be undertaken:</p> <ul style="list-style-type: none"> • Statistical Comparisons Method - to test whether net bleaching or net mortality for a given site exceeds the management trigger at a significance level of 0.05. • Lines of evidence method - if a statistical difference is recorded, the second level of analysis is based on an investigation into lines of evidence with respect to the contribution of dredging and spoil disposals to the observed impacts. 		Refer to condition 126.	Compliant

Audit Code	Subject	Action	When	Evidence	Status
143: DSDMP p99	Coral Health Monitoring	<p>The primary objective test of whether changes in bleaching or mortality observed at indicator or influence sites exceed management triggers will be a statistical test of significance (t-test). This test will include the following components:</p> <ul style="list-style-type: none"> • Calculation of the net change in bleaching or mortality at a site (compared to baseline) • Calculation of the net change in bleaching or mortality at a site (subtract any changes observed at indicator/influence sites from changes observed at reference sites) • Statistical comparison (t-test) of whether the net change in bleaching or mortality at a site is greater than the management trigger values. 		Refer to condition 126.	Compliant
144: DSDMP p99	Coral Health Monitoring	In the event that the Statistical Comparison Method indicates an exceedence of a trigger level, a Lines of Evidence comparison will be undertaken. This will include an assessment of the potential influence of the dredging and spoil disposal program on receptors at a site.		Refer to condition 126.	Compliant
145: DSDMP pp99-100	Coral Health Monitoring	<p>In addition to water quality data, other components that may be used in the lines of evidence approach are provided, but not limited to the following:</p> <ul style="list-style-type: none"> • The spatial distribution of observed increases in bleaching or mortality. • Evidence of changes in gross coral mortality or bleaching at the two contingency reference sites. • Information about natural rates of change in the system of habitats supporting a mosaic of benthic organisms, including corals. 		Refer to condition 126.	Compliant
146: DSDMP pp100-101	Coral Health Monitoring	<p>Assessment of coral <u>bleaching</u> against management triggers at indicator and influence sites Procedure to be followed will include:</p> <ol style="list-style-type: none"> 1. Analyse each of the coral images using CPCe software 2. Establish the percent cover of bleaching for each 		Refer to condition 126.	Compliant

Audit Code	Subject	Action	When	Evidence	Status
		colony 3. Establish the overall coral bleaching at a given site. 4. Determine the overall net bleaching at a given site. 5. Test whether net coral bleaching exceeds trigger levels 6. Should the test of coral bleaching show exceedence of a trigger level to be significant at the 95% level then the test is repeated with the effect size being the trigger level plus the average coral bleaching of the reference sites. 7. Should the latter test be significant at the 95% level then the coral bleaching level is deemed to have exceeded the trigger level. 8. Investigate multiple lines of evidence to determine whether the exceedence is attributable to dredging and/or spoil disposal activities.			
147: DSDMP pp101-102	Coral Health Monitoring	Assessment of coral <u>mortality</u> against management triggers at indicator and influence sites Procedure to be followed will include: 1. Analyse each of the coral images using CPCe software 2. Establish the percent cover of partial mortality 3. Establish the overall gross mortality at a given site 4. Determine the overall net mortality at a given site 5. test whether net mortality exceeds the numeric trigger levels 6. Should the test of net mortality show the exceedence of a trigger level to be significant at the 95% level then the test is repeated with the effect size being the trigger level plus the average coral mortality of the reference sites. 7. Should the latter test be significant at the 95% level then the net mortality level is deemed to have exceeded the trigger level.		Refer to condition 126.	Compliant

Audit Code	Subject	Action	When	Evidence	Status
148: DSDMP p103	Coral Health Monitoring	The results of the coral health monitoring program will be reported to the DEC on a four-weekly basis. In the event of an exceedence of Level 3 Management triggers, a written report will be provided to the CEO and DSWEPaC within four days of the decline in coral health being identified.		Refer to condition 126.	Compliant
149: DSDMP p103	Coral Health Monitoring	<p>The following procedures will be undertaken to ensure strict QA/QC procedures are adhered to for coral health assessments:</p> <ul style="list-style-type: none"> • A 'processed' folder will be created to ensure that the raw unchanged images are untouched as a backup to compare to if needed. • Images of each tagged coral taken on the first baseline survey will be numbered and labelled. These images will be printed in colour, laminated and compiled into a set of waterproof coral colony identification cards to assist divers in confirming the location and correct identification of tagged colonies in subsequent trips. • Whilst in the field, images will be checked to make sure they are of sufficient quality before leaving the site. Any images that are not of sufficient quality will be re-taken. • A copy of the raw images (as downloaded from the camera) will be retained in a 'raw images' folder and will remain unaltered. • A 'processed' folder will be created and any alteration or processing of the images will be saved within this folder. All CPCe technicians will undergo QA/QC training before commencing any analyses of images. Extracted data will be periodically tested against that extracted by a highly trained observer to maintain a high level of accuracy and consistency of analysis during the monitoring program. 		Refer to condition 126.	Compliant

Audit Code	Subject	Action	When	Evidence	Status
150: DSDMP p54	Coral Health Monitoring	In the event that any trigger levels are exceeded the following actions will be implemented (Figure 4-1): 1. Check reliability of the data (QA/QC procedures). 2. Determine if the exceedence is directly attributable to the dredging and spoil disposal activities. 3. The analysis and reporting of coral health will be provided within 3 business days to the Proponent.		Refer to condition 126. DEAG 5: RTIO-HSE-0110969 Extraordinary 1: RTIO-HSE-0107309 DEAG 7: RTIO-HSE-0111025 Extraordinary 2: RTIO-HSE-0110905	Compliant
151: DSDMP p55	Coral Health Monitoring	Where the identified exceedence is attributed to the proposal implementation, the following actions specific to each trigger level will be implemented: Level 1 a) Inform the DEAG that a marked increase in coral bleaching has been identified. b) Undertake further investigations into the cause of the exceedence c) Identify potential management measures to be enacted in case of further coral bleaching and/or coral mortality		There have been no exceedances of coral health criteria attributable to proposal implementation to date. Refer to condition 126. DEAG 5: RTIO-HSE-0110969 Extraordinary 1: RTIO-HSE-0107309 DEAG 7: RTIO-HSE-0111025 Extraordinary 2: RTIO-HSE-0110905	Not applicable.
152: DSDMP p55	Coral Health Monitoring	Level 2 a) Notify the DEAG b) Determine suitable management measures in conjunction with the DEAG c) Provide details of proposed management response to the DEAG d) Implement management response within 4 days of the decline in coral being identified. e) Liaise with DEAG to decide on suitable management measures to ensure that the limits of coral loss are not exceeded when dredging recommences in locations that may contribute to further impacts on corals		There have been no exceedances of coral health criteria attributable to proposal implementation to date. Refer to condition 126. DEAG 5: RTIO-HSE-0110969 Extraordinary 1: RTIO-HSE-0107309 DEAG 7: RTIO-HSE-0111025 Extraordinary 2: RTIO-HSE-0110905	Not applicable.
153: DSDMP p55	Coral Health Monitoring	Level 3 In the event that coral health monitoring indicates that the net detectable coral mortality at any indicator sites has exceeded 5% as a result of the proposal		There have been no exceedances of coral health criteria attributable to proposal implementation to date.	Not applicable.

Audit Code	Subject	Action	When	Evidence	Status
		<p>implementation and the circumstances which led to the exceedence still persists or are likely to re-occur, the Proponent shall:</p> <ul style="list-style-type: none"> a) Immediately cease dredging and disposal activities in locations that are contributing to the decline in coral health b) Implement management responses and provide a report to the CEO and DSEWPac including evidence which allows the determination of the decline in coral health within 4 days of the decline in coral health being identified. c) Dredging and spoil disposal activities are to remain suspended until it can be demonstrated to the requirements of the CEO and DSEWPac that the recommencement of such activities will not contribute to further net mortality of corals at any indicator site where the limit of acceptable loss has been exceeded. 			
154: DSDMP p55	Coral Health Monitoring	<p>The management measures that will be applied should coral mortality trigger levels be exceeded as a result of dredging and/or spoil disposal will be determined during the investigation into the cause, extent and nature of the impact and the location of the impacted monitoring site. Proposed measures that may be applied include:</p> <ul style="list-style-type: none"> a) reduction or cessation of overflow during times when the dredge plume is likely to further impact the affected corals. b) Optimisation of disposal location based on met-ocean conditions and location of affected corals. c) A reduction in dredging to 12 hours/day d) Temporary cessation in dredging activities e) Move dredging operation to another location in the development. 		There have been no exceedances of coral health criteria attributable to proposal implementation to date.	Not applicable

Audit Code	Subject	Action	When	Evidence	Status
155: DSDMP p56	Coral Health Monitoring	<p>An exceedence of these criteria at influence sites will trigger the following actions (Figure 4.2).</p> <p>Action 1: Assess whether the exceedence is 'real' by checking reliability of the data (QA/QC procedures) and comparing data to reference sites.</p> <p>Action 2: Investigate light data (PAR) to determine whether the amount of light received over the previous monitoring period is sufficient to sustain coral health.</p> <p>Action 3: Investigate the cause of the deterioration in water quality to assess if it is directly attributable to dredging and/or spoil disposal activities and whether the conditions that led to the exceedence still occur or are likely to reoccur.</p> <p>Action 4: Prioritise the next round of coral health assessments and analyses to firstly target site(s) where water quality criteria has been exceeded in order to provide the most rapid assessment of any potential deterioration in coral health.</p>		There have been no exceedences of coral health criteria attributable to proposal implementation to date.	Not applicable
156: DSDMP p107	Coral spawning	Three coral spawning assessment sites will be chosen from the monitoring sites within the zone of influence (Figure 5-1). It is expected that if synchronised mass spawning takes place it will occur at a regional level, therefore sampling at three sites would capture a mass spawning event if it were to occur. Prior to the first coral spawning assessment survey, the location of each coral spawning assessment site will be determined by GPS and the site will be marked with a centrally placed buoy. The corals will be selected within a 100m radius of the buoy.		<p>Feb 2011 assessment: RTIO-HSE-0109551 RTIO-HSE-0109552</p> <p>Mar 2011 assessment: RTIO-HSE-0110977 RTIO-HSE-0110978</p> <p>Oct 2011 assessment: RTIO-HSE-0125457 RTIO-HSE-0125456</p> <p>Nov 2011 assessment: RTIO-HSE-0128094 RTIO-HSE-0128093</p> <p>Dec 2011 assessment: RTIO-HSE-0130293 RTIO-HSE-0130292</p>	Compliant

Audit Code	Subject	Action	When	Evidence	Status
157: DSDMP p107	Coral spawning	At each site, twenty colonies of the most dominant coral species or genus group will be selected randomly for coral spawning assessments. Where possible, larger coral colonies will be selected to ensure the colony is sexually mature. Coral spawning assessments of the dominant coral species or genus groups will be made two weeks prior to the start of each predicted coral spawning window.		Feb 2011 assessment: RTIO-HSE-0109551 RTIO-HSE-0109552 Mar 2011 assessment: RTIO-HSE-0110977 RTIO-HSE-0110978 Oct 2011 assessment: RTIO-HSE-0125457 RTIO-HSE-0125456 Nov 2011 assessment: RTIO-HSE-0128094 RTIO-HSE-0128093 Dec 2011 assessment: RTIO-HSE-0130293 RTIO-HSE-0130292	Compliant
158: DSDMP p107	Coral spawning	During each survey a coral fragment will be collected from each randomly selected colony. The coral fragments will be examined visually in situ for the presence of pigmented eggs. In the case of coral genera with small polyps (e.g. <i>Porites</i> spp or <i>Turbinaria</i> spp), the coral fragment will be collected and examined for the presence of pigmented eggs using a dissecting microscope onshore. The results of the examination will be scored based on egg development i.e. the presence and pigmentation of the eggs.		Feb 2011 assessment: RTIO-HSE-0109551 RTIO-HSE-0109552 Mar 2011 assessment: RTIO-HSE-0110977 RTIO-HSE-0110978 Oct 2011 assessment: RTIO-HSE-0125457 RTIO-HSE-0125456 Nov 2011 assessment: RTIO-HSE-0128094 RTIO-HSE-0128093 Dec 2011 assessment: RTIO-HSE-0130293 RTIO-HSE-0130292	Compliant
159: DSDMP p108	Coral spawning	In the event that coral spawning surveys at the beginning of either spring or autumn spawning windows indicate that there will not be a mass spawning event for several months, i.e. the complete absence of eggs, then it is proposed to reduce the		Feb 2011 assessment: RTIO-HSE-0109551 RTIO-HSE-0109552 Mar 2011 assessment: RTIO-HSE-0110977	Compliant

Audit Code	Subject	Action	When	Evidence	Status
		number of individuals to be surveyed in subsequent months to a minimum of 10 individuals of the dominant species or genus group. If pigmented eggs are detected in any of these surveys then the sample size will be increased to 20 colonies. Reduction in sample numbers is proposed to reduce the destruction of individual coral colonies.		RTIO-HSE-0110978 Oct 2011 assessment: RTIO-HSE-0125457 RTIO-HSE-0125456 Nov 2011 assessment: RTIO-HSE-0128094 RTIO-HSE-0128093 Dec 2011 assessment: RTIO-HSE-0130293 RTIO-HSE-0130292	
160: DSDMP p108	Coral spawning	Once a mass coral spawning event is identified for a particular spawning window, no further coral spawning assessments are required for the subsequent spawning window. In addition, no coral spawning assessments are required until the following autumn or spring depending on when the mass coral spawning is first predicted.		Refer to the March 2011 spawning assessment (RTIO-HSE-0110489). No further coral spawning assessments were made following the March 2011 mass spawning event, as required.	Compliant
161: DSDMP p108	Coral spawning	Once a mass coral spawning event is identified for a particular spawning window management responses will be instigated to minimise the impact of the dredging and spoil ground activities on coral spawning.		Refer to the DSEWPaC notification regarding the predicted March 2011 coral spawning event (RTIO-HSE-0110977). Refer to daily dredge reports showing shutdown during the predicted coral spawning window (RTIO-HSE-0129509).	Compliant
162: DSDMP p108	Coral spawning	In accordance with Condition 8-9 of Ministerial Statement 840, where mass coral spawning is predicted to occur during the next coral spawning window, dredging and spoil disposal activities that may impact on coral larvae survival will cease during the period 3 days prior to the predicted commencement of mass coral spawning or as soon as mass coral spawning is detected if prior to that predicted time.		Refer to the DSEWPaC notification regarding the predicted March 2011 coral spawning event (RTIO-HSE-0110977). Refer to daily dredge reports showing shutdown during the predicted coral spawning window (RTIO-HSE-0129509).	Compliant

Audit Code	Subject	Action	When	Evidence	Status
163: DSDMP p108	Coral spawning	Dredging and spoil disposal activities are to remain suspended for seven days from the commencement of mass coral spawning.		Refer to the DSEWPaC notification regarding the predicted March 2011 coral spawning event (RTIO-HSE-0110977). Refer to daily dredge reports showing shutdown during the predicted coral spawning window (RTIO-HSE-0129509).	Compliant
164: DSDMP p108	Coral spawning	Surveys of the dominant coral species or genus groups will determine that these corals have finished spawning. The end of the mass spawning will be deemed to have occurred when surveys of 10 dominant coral colonies at each site during the window indicate that >50% of these corals have no pigmented eggs present. No further spawning assessment will be carried out until the following year at the same time indicated by the timing of the first mass coral spawning event.		Refer to the March 2011 spawning assessment (RTIO-HSE-0110489). No further coral spawning assessments were made following the March 2011 mass spawning event, as required.	Compliant
165: DSDMP p109	Coral spawning	Reporting shall be undertaken in accordance with Section 6 and as follows:• Coral spawning assessment reports will be provided to the DEC and DSEWPaC within 10 business days of each spawning assessment undertaken, which shall detail the probability of a mass coral spawning event or the likelihood that corals have already spawned.• Coral spawning monitoring reports will be provided to the DEC and DSEWPaC within 10 business days of each monitoring survey undertaken.• DSEWPaC shall be notified (i.e. email / fax statement) if / when dredging and spoil disposal activities have been suspended due to coral spawning.		Feb 2011 assessment: RTIO-HSE-0109551 RTIO-HSE-0109552 Mar 2011 assessment: RTIO-HSE-0110977 RTIO-HSE-0110978 Oct 2011 assessment: RTIO-HSE-0125457 RTIO-HSE-0125456 Nov 2011 assessment: RTIO-HSE-0128094 RTIO-HSE-0128093 Dec 2011 assessment: RTIO-HSE-0130293 RTIO-HSE-0130292	Compliant

Audit Code	Subject	Action	When	Evidence	Status
166: DSDMP p59	Coral spawning	Where mass coral spawning is predicted to occur during the next coral spawning window, dredging and spoil disposal activities that may impact on coral larvae survival will cease during the period 3 days prior to the predicted commencement of mass coral spawning or as soon as mass coral spawning is detected if prior to that predicted time.		Refer to the DSEWPaC notification regarding the predicted March 2011 coral spawning event (RTIO-HSE-0110977). Refer to daily dredge reports showing shutdown during the predicted coral spawning window (RTIO-HSE-0129509).	Compliant
167: DSDMP p59	Coral spawning	Dredging and spoil disposal activities are to remain suspended for seven days from the commencement of mass coral spawning.		Refer to daily dredge reports showing shutdown during the predicted coral spawning window (RTIO-HSE-0129509).	Compliant
168: DSDMP p60	Coral spawning	Monitoring: Coral spawning assessment to determine if a mass coral spawning event will occur.		Feb 2011 assessment: RTIO-HSE-0109551 RTIO-HSE-0109552 Mar 2011 assessment: RTIO-HSE-0110977 RTIO-HSE-0110978 Oct 2011 assessment: RTIO-HSE-0125457 RTIO-HSE-0125456 Nov 2011 assessment: RTIO-HSE-0128094 RTIO-HSE-0128093 Dec 2011 assessment: RTIO-HSE-0130293 RTIO-HSE-0130292	Compliant
169: DSDMP p60	Coral spawning	Where a mass coral spawning event is predicted to occur during the next spawning window, monitoring will occur.		Feb 2011 assessment: RTIO-HSE-0109551 RTIO-HSE-0109552 Mar 2011 assessment: RTIO-HSE-0110977 RTIO-HSE-0110978 Oct 2011 assessment: RTIO-HSE-0125457	Compliant

Audit Code	Subject	Action	When	Evidence	Status
				RTIO-HSE-0125456 Nov 2011 assessment: RTIO-HSE-0128094 RTIO-HSE-0128093 Dec 2011 assessment: RTIO-HSE-0130293 RTIO-HSE-0130292	
170: DSDMP p60	Coral spawning	Coral spawning assessment reports will be provided to the DEC and DSEWPaC within 10 business days of each spawning assessment undertaken, which shall detail the probability of a mass coral spawning event or the likelihood that corals have already spawned.		Feb 2011 assessment: RTIO-HSE-0109551 RTIO-HSE-0109552 Mar 2011 assessment: RTIO-HSE-0110977 RTIO-HSE-0110978 Oct 2011 assessment: RTIO-HSE-0125457 RTIO-HSE-0125456 Nov 2011 assessment: RTIO-HSE-0128094 RTIO-HSE-0128093 Dec 2011 assessment: RTIO-HSE-0130293 RTIO-HSE-0130292	Compliant
171: DSDMP p60	Coral spawning	Coral spawning monitoring reports will be provided to the DEC and DSWEPaC within 10 business days of each monitoring survey undertaken.		Feb 2011 assessment: RTIO-HSE-0109551 RTIO-HSE-0109552 Mar 2011 assessment: RTIO-HSE-0110977 RTIO-HSE-0110978 Oct 2011 assessment: RTIO-HSE-0125457 RTIO-HSE-0125456 Nov 2011 assessment: RTIO-HSE-0128094 RTIO-HSE-0128093 Dec 2011 assessment:	Compliant

Audit Code	Subject	Action	When	Evidence	Status
				RTIO-HSE-0130293 RTIO-HSE-0130292	
172: DSDMP p60	Coral spawning	DSEWPaC shall be notified (i.e. email/fax statement) if/when dredging and spoil disposal activities have been suspended due to coral spawning.		Refer to the DSEWPaC notification regarding the predicted March 2011 coral spawning event (RTIO-HSE-0110977). Refer to daily dredge reports showing shutdown during the predicted coral spawning window (RTIO-HSE-0129509).	Compliant
173: DSDMP p114	Coral spawning	Coral Spawning Assessment Report: Results of each coral spawning assessment (DEC, DSEWPaC)	within 10 business days of completion of assessment when the assessment is required	Feb 2011 assessment: RTIO-HSE-0109551 RTIO-HSE-0109552 Mar 2011 assessment: RTIO-HSE-0110977 RTIO-HSE-0110978 Oct 2011 assessment: RTIO-HSE-0125457 RTIO-HSE-0125456 Nov 2011 assessment: RTIO-HSE-0128094 RTIO-HSE-0128093 Dec 2011 assessment: RTIO-HSE-0130293 RTIO-HSE-0130292	Compliant
174: DSDMP p114	Coral spawning	Coral Spawning Monitoring Report: Results of each coral spawning monitoring event (DEC, DSEWPaC)	within 10 business days of completion of monitoring when the monitoring is required	Feb 2011 assessment: RTIO-HSE-0109551 RTIO-HSE-0109552 Mar 2011 assessment: RTIO-HSE-0110977 RTIO-HSE-0110978 Oct 2011 assessment: RTIO-HSE-0125457 RTIO-HSE-0125456	Compliant

Audit Code	Subject	Action	When	Evidence	Status
				Nov 2011 assessment: RTIO-HSE-0128094 RTIO-HSE-0128093 Dec 2011 assessment: RTIO-HSE-0130293 RTIO-HSE-0130292	
175: SD2008/822 Condition 14	Environmental Risks and Incidents	If, at any time during the course of the dumping activities, an environmental incident occurs or environmental risk is identified, measures must be taken immediately by Pilbara Iron Pty Ltd to mitigate the risk or the impact. The situation is to be reported in writing within 24 hours, to the Department, with details of the incident or risk, the measures taken, the success of those measures in addressing the incident or risk and any additional measures proposed to be taken.		No environmental incidents or risks were identified during dumping activities during this reporting period.	Not applicable
176: SD2008/822 Condition 15	Environmental Risks and Incidents	Pilbara Iron Pty Ltd must document any incidents involving the dumping activities that result in injury or death to any cetacean, turtle or dugong. The time and nature of each incident and the species involved if known must be recorded.		No environmental incidents or risks were identified during dumping activities during this reporting period.	Not applicable
177: SD2008/822 Condition 16	Environmental Risks and Incidents	Pilbara Iron Pty Ltd must notify the Department, in writing, of any incidents documented in accordance with Condition 15. Reports must be submitted to the Department within 24 hours, or as requested by the Department.	24 hours	No environmental incidents or risks were identified during dumping activities during this reporting period.	Not applicable
178: DSDMP p115	Environmental Risks and Incidents	Any unexpected environmental incident or environmental risk identified during the course of dumping activities (as required by the SDP): <ul style="list-style-type: none"> • Details of the incident or risk; • Measures taken to mitigate the risk of the impact; • Success of those measures in addressing the incident or risk and any additional measures proposed to be taken. 	Per occasion, within 24 hours of incident	No environmental incidents or risks were identified during dumping activities during this reporting period.	Not applicable

Audit Code	Subject	Action	When	Evidence	Status
179: SD2008/822 Condition 2	EPBC approval	Pilbara Iron Pty Ltd must ensure that all activities are undertaken in accordance with the conditions of the EPBC Act approval (EPBC2008/4032).		Refer to the Cape Lambert Port B Development 2010 Compliance Assessment EPBC 2008/4032 (RTIO-HSE-0160590). This document.	Compliant
180: DSDMP p115	IMO	IMO Reporting: <ul style="list-style-type: none"> • Permit details • Details on the quantity and type of sediment disposed. • Other details listed in Appendix 2 of the Sea Dumping Permit (or in a format as approved by the Department from time to time) (DSEWPaC) 	Annually, by 31 January each year and upon expiry of the permit or completion of all dumping activities under the permit.	Refer to the Annual Report to the International Maritime Organisation for Sea Dumping at Cape Lambert Port B (Permit SD2008/822) for calendar year 01/01/2010 - 31/12/2010 (RTIO-HSE-0105146). Refer to the Annual Report to the IMO for Sea Dumping at Cape Lambert Port B (Permit SD2008-822) for calendar year 01.01.2011 - 31.12.2011 (RTIO-HSE-0134672).	Compliant
181: SD2008/822 Condition 22	IMO	To facilitate annual reporting to the International Maritime Organization, Pilbara Iron Pty Ltd must report to the Department by 31 January each year, including on the day of the expiry of the permit, information at Appendix 2 to this permit, or in a format as approved by the Department from time to time.		Refer to the Annual Report to the International Maritime Organisation for Sea Dumping at Cape Lambert Port B (Permit SD2008/822) for calendar year 01/01/2010 - 31/12/2010 (RTIO-HSE-0105146). Refer to the Annual Report to the IMO for Sea Dumping at Cape Lambert Port B (Permit SD2008-822) for calendar year 01.01.2011 - 31.12.2011 (RTIO-HSE-0134672).	Compliant
182: DSDMP pp68-69	IMS	A Vessel Clearance Procedure (VCP) will be developed and submitted to DoF for approval (Figure 4-6). This procedure will detail the following requirements: <ul style="list-style-type: none"> • Compliance with Australian Quarantine Inspection Service (AQIS) mandatory ballast water requirements (Figure 4-7). 		Refer to the Cape Lambert Port B Development - Vessel Clearance Procedure (RTIO-HSE-0100916). Refer to the Department of Fisheries Approval of the Vessel Clearance Inspection Procedure (RTIO-HSE-	Compliant

Audit Code	Subject	Action	When	Evidence	Status
		<ul style="list-style-type: none"> • All vessels will be inspected or undergo a vessel risk assessment prior to operations, unless excluded under Condition 9-1. • Low risk vessel, as determined by the vessel risk assessment process may apply to DoF for an exemption. • All high/uncertain risk vessels, as determined by the vessel risk assessment process will undergo a vessel inspection prior to operations either: <ul style="list-style-type: none"> • Immediately (no more than 48 hours) prior to vessel or immersible equipment departure for Cape Lambert Port B: or • within 48 hours following arrival of vessel within Port Walcott. • Vessels that have spent more than seven days in coastal waters (less than 50 m depth) between inspection and their arrival at Port Walcott shall also be inspected during the sixth week after arrival at Port Walcott. • Only vessels considered low risk (as a result of the risk assessment and/or completion of risk reduction measures - i.e. inspections/treatments) shall be allowed to begin operations. 		010266).	
183: DSDMP p69	IMS	Issue of written exemption by the CEO on advice from DoF will be based on the VCP, including a risk assessment supported by documentation, demonstrating biofouling management measures and a vessel activity profile since the most recent dry-dock cleaning.		Refer to the following Iron Ore Document Management System folder: CLB OEPA and DoF Vessel Mobilisation Approvals (http://iodms/iodms/drl/objectId/0b0188a38032c487)	Compliant
184: DSDMP p69	IMS	<p>In the event that IMS or significant amounts of sediment (as deemed by the inspector) are found on a vessel during the inspection the following measures will be taken:</p> <ul style="list-style-type: none"> • The appropriate State, Commonwealth or Port regulatory agency will be informed and guidance sought as to the appropriate actions. This may 		Refer to the following Iron Ore Document Management System folder: CLB Project Vessel Inspections (http://iodms/iodms/drl/objectId/0b0188a3803221af)	Compliant

Audit Code	Subject	Action	When	Evidence	Status
		<p>include either vessel movement to a designated quarantine area (if in Australian waters) (i.e. water depth of at least 50 m and/or at least 12 nm offshore).</p> <ul style="list-style-type: none"> The vessel will be required to undergo appropriate cleaning/treatment, re-inspection and subjected to assessment through the VCP. 			
185: DSDMP p69	IMS	<p>The monitoring program currently in place will be superseded, and a targeted IMS Monitoring program consistent with the design, implementation and reporting standards set out as part of the National Monitoring Network for the Prevention and Management of Marine Pest Incursions (National system) will be implemented to detect the establishment of any invasive marine species in the waters surrounding the development.</p>		<p>Cape Lambert Port B Development Invasive Marine Species Survey Plan Rev 3 (RTIO-HSE-0109375).</p> <p>Submission of Cape Lambert Port B Development Invasive Marine Species Survey Plan Rev 3 to DAFF (RTIO-HSE-0109377).</p> <p>Letter to DAFF/MDAP regarding delay in CLB Invasive Marine Species Survey (post) Wet Season 2011 (RTIO-HSE-0112990).</p> <p>DAFF/MDAP response regarding delay in CLB Invasive Marine Species Survey (post) Wet Season 2011 (RTIO-HSE-0114658).</p> <p>Cape Lambert Port B Development Invasive Marine Species Survey Monitoring (Post-Wet Season) Report (RTIO-HSE-0124033).</p> <p>Cape Lambert Port B Development 2011 Dry Season Invasive Marine Species Survey Implementation Plan (RTIO-HSE-0142576).</p> <p>MDAP Approval of Cape Lambert Port</p>	Compliant

Audit Code	Subject	Action	When	Evidence	Status
				<p>B Development 2011 Dry Season Invasive Marine Species Survey Implementation Plan (RTIO-HSE-0142577).</p> <p>Cape Lambert Port B Development 2011 Dry Season Invasive Marine Species Survey Report (RTIO-HSE-0142579).</p>	
186: DSDMP p70	IMS	In the event that the monitoring program detects the presence of invasive marine species in the waters adjacent to the development, an invasive marine species strategy with the objective of controlling or eradicating the invasive marine species will be developed and implemented in consultation with DoF and DEC.		No invasive marine species have been detected in Port waters to date.	Not applicable
187: DSDMP p70	IMS	Departure VRA will be undertaken to determine if an inspection is required. This process will take into account current monitoring outcomes, the bioregion of the proposed operational area and if applicable, the IMS commitments of the contracting party prior to the vessel's departure.		<p>No invasive marine species have been detected in Port waters to date.</p> <p>Refer to the following Iron Ore Document Management System folder: CLB Project Vessel Inspections CLB DoF Demobilisation Approvals (http://iodms/iodms/drl/objectId/0b0188a38038f479)</p>	Compliant
188: DSDMP p70	IMS	Monitoring every three years will be undertaken in accordance with the National System.		<p>Cape Lambert Port B Development Invasive Marine Species Survey Monitoring (Post-Wet Season) Report (RTIO-HSE-0124033).</p> <p>Cape Lambert Port B Development 2011 Dry Season Invasive Marine Species Survey Report (RTIO-HSE-0142579).</p>	Compliant

Audit Code	Subject	Action	When	Evidence	Status
189: DSDMP p70	IMS	In accordance with Condition 9-4 Ministerial Statement 840) and Condition 14 (SDP 2008/822), the Proponent shall, throughout the life of the project notify (i.e. email/fax statement) the CEO, DoF and DSEWPaC of any known IMS detected in the waters within the marine leases held by the Proponent at or adjacent to Cape Lambert within 48 hours (to the CEO and DoF) and 24 hours (to DSEWPaC) following detection or following subsequent sample analysis undertaken as part of inspection or monitoring activities. The summary report to DSEWPaC will outline the incident and what measures were implemented.		No invasive marine species have been detected in Port waters to date.	Not applicable
190: DSDMP p70	IMS	In accordance with Condition 9-5, in the event that any IMS are detected during either the inspection of non-trading vessels and immersible equipment, or during monitoring surveys, the Proponent shall, in consultation with the CEO and DoF develop and implement an agreed IMS Management Strategy to prevent wherever practicable, the establishment and proliferation of that organism, aiming to control and potentially eradicate that organism, and to minimise the risk of that organism being transferred to other locations within Western Australia.		No invasive marine species have been detected in Port waters to date.	Not applicable
191: DSDMP p71	IMS	<p>Appropriately qualified marine scientist with experience in biosecurity:</p> <ul style="list-style-type: none"> Approved arrival VRA report and supporting documents to be submitted to DoF demonstrating low risk status of vessel prior to operations. Departure VRA will be undertaken to determine if a vessel inspection is required. This process will take into account current monitoring outcomes, the bioregion of the proposed operational area and if applicable, the IMS commitments of the contracting party prior to vessel's departure. 		<p>All invasive marine species inspections are conducted by Bill Bardsley, a Western Australian Department of Fisheries approved inspector (RTIO-HSE-0101214).</p> <p>Refer to the following Iron Ore Document Management System folder: CLB OEPA and DoF Vessel Mobilisation Approvals (http://iodms/iodms/drl/objectId/0b0188a38032c487).</p>	Compliant

Audit Code	Subject	Action	When	Evidence	Status
192: DSDMP p71	IMS	<p>Appropriately qualified marine scientist with a demonstrated knowledge of IMS and experience in undertaking vessel and immersible equipment inspections:</p> <p>d) A single vessel inspection will be undertaken prior to operations. Within either 48 hours prior to mobilisation to site or within 48 hours of arrival on site.</p> <p>e) Vessels will be subjected to further inspections where cleaning/treatments etc have occurred to confirm low risk status of the vessel.</p>		<p>All invasive marine species inspections are conducted by Bill Bardsley, a Western Australian Department of Fisheries approved inspector (RTIO-HSE-0101214).</p> <p>Refer to the following Iron Ore Document Management System folder: CLB Project Vessel Inspections (http://iodms/iodms/drl/objectId/0b0188a3803221af).</p>	Compliant
193: DSDMP p71	IMS	<p>Appropriately qualified marine scientist with a demonstrated knowledge of IMS and experience in undertaking vessel and immersible equipment inspections:</p> <p>f) Completed vessel inspection checklists including a summary of inspection outcomes will be provided to DoF as soon as practicable but within 48 hours of the completion of the inspection.</p>	48 hours	<p>All invasive marine species inspections are conducted by Bill Bardsley, a Western Australian Department of Fisheries approved inspector (RTIO-HSE-0101214).</p> <p>Refer to the following Iron Ore Document Management System folder: CLB Project Vessel Inspections (http://iodms/iodms/drl/objectId/0b0188a3803221af).</p>	Compliant
194: DSDMP p71	IMS	<p>Appropriately qualified marine scientist with experience in biosecurity:</p> <p>d) Final report detailing all relevant information and justification will be provided within 10 business days after the completion of the inspection and any associated treatments. Where species confirmation is still outstanding, a preliminary report will be provided within this timeframe, with a final report to be submitted as soon as species ID is confirmed by a taxonomist.</p>	10 business days	<p>All invasive marine species inspections are conducted by Bill Bardsley, a Western Australian Department of Fisheries approved inspector (RTIO-HSE-0101214).</p> <p>Refer to the following Iron Ore Document Management System folder: CLB Project Vessel Inspections (http://iodms/iodms/drl/objectId/0b0188a3803221af).</p>	Compliant
195: DSDMP p109	IMS	To minimise the risk of introducing IMS of concern to the proposed operational area, a risk management approach will be undertaken. This process includes vessel risk assessment (VRA) to determine the risk		All invasive marine species risk assessments are conducted by Bill Bardsley, a Western Australian Department of Fisheries approved	Compliant

Audit Code	Subject	Action	When	Evidence	Status
		status of the vessel, and where outcomes suggest a high/ uncertain risk of harbouring IMS of concern to the Cape Lambert marine environment, vessels will undergo subsequent mitigation measures, including inspections and if necessary cleaning / treatment procedures.		inspector (RTIO-HSE-0101214). Refer to the following Iron Ore Document Management System folder: CLB OEPA and DoF Vessel Mobilisation Approvals (http://iodms/iodms/drl/objectId/0b0188a38032c487).	
196: DSDMP p109	IMS	This VRA and subsequent risk reduction measures (i.e. vessel inspections / treatments) will be undertaken by qualified marine scientists with knowledge of IMS and experience in vessel inspections and treatment.		All invasive marine species risk assessments are conducted by Bill Bardsley, a Western Australian Department of Fisheries approved inspector (RTIO-HSE-0101214). Refer to the following Iron Ore Document Management System folder: CLB OEPA and DoF Vessel Mobilisation Approvals (http://iodms/iodms/drl/objectId/0b0188a38032c487).	Compliant
197: DSDMP p110	IMS	The risk assessment process will consider the known transmission vectors and the vessels operational and maintenance history to assess the overall risk status of a vessel. The VRA will consider, but not be limited to the following factors: <ul style="list-style-type: none"> • vessel type; • recent vessel inspection and cleaning history; • fouling control systems; • vessel origin and proposed area of operation; and • ballast/trim tank sea water origin. 		All invasive marine species risk assessments are conducted by Bill Bardsley, a Western Australian Department of Fisheries approved inspector (RTIO-HSE-0101214). Refer to the following Iron Ore Document Management System folder: CLB OEPA and DoF Vessel Mobilisation Approvals (http://iodms/iodms/drl/objectId/0b0188a38032c487).	Compliant

Audit Code	Subject	Action	When	Evidence	Status
198: DSDMP p110	IMS	As a result of the risk assessment process, any vessel that is classified as a high / uncertain risk of harbouring IMS of concern to the Cape Lambert marine environment will undergo subsequent mitigation measures, including inspections and if necessary cleaning / treatment procedures.		<p>All invasive marine species risk assessments are conducted by Bill Bardsley, a Western Australian Department of Fisheries approved inspector (RTIO-HSE-0101214).</p> <p>Refer to the following Iron Ore Document Management System folder: CLB OEPA and DoF Vessel Mobilisation Approvals (http://iodms/iodms/drl/objectId/0b0188a38032c487).</p>	Compliant
199: DSDMP p110	IMS	<p>Approved arrival VRA Report and supporting documents to be submitted to DoF demonstrating low risk status prior to operations in order seek exemption from further management measures. Supporting documents include, but are not limited to, the following factors that may influence IMS establishment and survival:</p> <ul style="list-style-type: none"> • presence and condition of fouling control coatings (internal and external); • operation and maintenance history (i.e. home port and last port of call); and • previous inspections and IMS mitigation and management measures. Departure VRA will be undertaken to determine if an inspection is required. This process will take into account the bioregion of the proposed operational area and if applicable, the IMS commitments of the contracting party prior to vessel's departure. 		<p>All invasive marine species risk assessments are conducted by Bill Bardsley, a Western Australian Department of Fisheries approved inspector (RTIO-HSE-0101214).</p> <p>Refer to the following Iron Ore Document Management System folder: CLB OEPA and DoF Vessel Mobilisation Approvals (http://iodms/iodms/drl/objectId/0b0188a38032c487).</p>	Compliant
200: DSDMP p110	IMS	Vessel inspections will be undertaken to determine the presence / absence of invasive marine species as listed in the revised Consultative Committee on Introduced Marine Pest Emergencies (CCIMPE) Trigger List, and marine species demonstrating invasive characteristics. These inspections will focus on confirming that the vessel (including any residual		<p>All invasive marine species inspections are conducted by Bill Bardsley, a Western Australian Department of Fisheries approved inspector (RTIO-HSE-0101214).</p> <p>Refer to the following Iron Ore</p>	Compliant

Audit Code	Subject	Action	When	Evidence	Status
		sediment) presents a low risk of introducing invasive marine species to the area.		Document Management System folder: CLB Project Vessel Inspections (http://iodms/iodms/drl/objectId/0b0188a3803221af).	
201: DSDMP p111	IMS	<p>As per Condition 9-1 of Ministerial Statement 840, non-trading vessels and immersible equipment associated with the dredging and spoil disposal program, will be inspected to certify that:</p> <ul style="list-style-type: none"> • there is no sediment on or within the non-trading vessel and equipment; • ballast water (if any) has been, or will be, managed according to the Australian Quarantine Inspection Service ballast water requirements. • No invasive marine species (as listed within the Revised CCIMPE Trigger List) or any other species demonstrating invasive characteristics, have been identified on or within any vessel or immersible equipment inspected; and • Any cleaning or treatment activities undertaken to address invasive marine species risk, has been undertaken to an extent that the non-trading vessel or associated immersible equipment is considered to represent a low risk to the West Australian marine environment. 		<p>All invasive marine species inspections are conducted by Bill Bardsley, a Western Australian Department of Fisheries approved inspector (RTIO-HSE-0101214).</p> <p>Refer to the following Iron Ore Document Management System folder: CLB Project Vessel Inspections (http://iodms/iodms/drl/objectId/0b0188a3803221af).</p>	Compliant
202: DSDMP p111	IMS	<p>As stipulated in Condition 9-1 of Ministerial Statement 840, vessel inspections will be conducted:</p> <ul style="list-style-type: none"> • Immediately (no more than 48 hours) prior to vessel or immersible equipment departure for Cape Lambert Port B; or • Within 48 hours following arrival of vessel or immersible equipment within Port Walcott; and • Vessels that have spent more than seven days in coastal waters (less than 50 meters depth) between inspection and their arrival at Port Walcott shall also be inspected during the sixth week after 		<p>All invasive marine species inspections are conducted by Bill Bardsley, a Western Australian Department of Fisheries approved inspector (RTIO-HSE-0101214).</p> <p>Refer to the following Iron Ore Document Management System folder: CLB Project Vessel Inspections (http://iodms/iodms/drl/objectId/0b0188a3803221af).</p>	Compliant

Audit Code	Subject	Action	When	Evidence	Status
		arrival at Port Walcott.			
203: DSDMP p111	IMS	These inspections will be undertaken either in 'dry dock' or via divers in water with sufficient visibility to conduct a proper inspection. Inspections will be supervised by a qualified marine scientist with experience undertaking IMS inspections and the taxonomic identification of species of concern.		All invasive marine species inspections are conducted by Bill Bardsley, a Western Australian Department of Fisheries approved inspector (RTIO-HSE-0101214). Refer to the following Iron Ore Document Management System folder: CLB Project Vessel Inspections (http://iodms/iodms/drl/objectId/0b0188a3803221af).	Compliant
204: DSDMP p111	IMS	The inspector will conduct a general inspection of the following, where applicable: <ul style="list-style-type: none"> vessel hull and associated external niche areas; internal and external niches (including anchor lockers, bow thrusters outlets, sea water strainers and cooling systems); vessel deck; immersible equipment; dredging equipment; interview with chief engineer or review of chief engineers logbook to determine evidence of bio-fouling within internal seawater systems. Symptoms include restricted water flow / engine overheating; and vessel Ballast Water Log Book to ensure AQIS approval of ballast water management. 		All invasive marine species inspections are conducted by Bill Bardsley, a Western Australian Department of Fisheries approved inspector (RTIO-HSE-0101214). Refer to the following Iron Ore Document Management System folder: CLB Project Vessel Inspections (http://iodms/iodms/drl/objectId/0b0188a3803221af).	Compliant
205: DSDMP p112	IMS	In addition, samples will be taken and sent for expert taxonomic identification (if found on vessels within Australian waters). The management strategy presented in Section 4.5 will be implemented when		All invasive marine species inspections are conducted by Bill Bardsley, a Western Australian Department of Fisheries approved inspector (RTIO-	Compliant

Audit Code	Subject	Action	When	Evidence	Status
		suspected or known marine pest are identified.		HSE-0101214). Refer to the following Iron Ore Document Management System folder: CLB Project Vessel Inspections (http://iodms/iodms/dri/objectId/0b0188a3803221af). All invasive marine species inspections are conducted by Bill Bardsley, a Western Australian Department of Fisheries approved inspector (RTIO-HSE-0101214). Refer to the following Iron Ore Document Management System folder: CLB Project Vessel Inspections (http://iodms/iodms/dri/objectId/0b0188a3803221af). All invasive marine species inspections are conducted by Bill Bardsley, a Western Australian Department of Fisheries approved inspector (RTIO-HSE-0101214). Refer to the following Iron Ore Document Management System folder: CLB Project Vessel Inspections (http://iodms/iodms/dri/objectId/0b0188a3803221af). Cape Lambert Port B Development Invasive Marine Species Survey Plan Rev 3 (RTIO-HSE-0109375). Submission of Cape Lambert Port B Development Invasive Marine Species Survey Plan Rev 3 to DAFF (RTIO-HSE-0109377).	
206: DSDMP p112	IMS	A vessel inspection checklist will be completed following each inspection. This checklist will be provided to the DoF as soon as practicable but within 48 hrs after completion of inspection and before the commencement of operations for each vessel. The submitted checklist will include a statement from the inspector providing an assessment on the status of the vessel in terms of degree of bio-fouling, identification of any known or suspected IMS, compliance with the AQIS mandatory ballast water requirements and presence and condition fouling control systems.	Within 48 hours or ASAP		Compliant
207: DSDMP p112	IMS	An inspection report including details of the risk assessments, vessel history, antifouling coat status and inspection results will be provided to the DoF within ten business days of completion of the inspection. Where species confirmation is outstanding, a draft report will be submitted with a clause stating that taxonomic confirmation is pending.	within 10 business days		Compliant
208: DSDMP p113	IMS	The monitoring design, implementation and reporting shall be consistent with the standards set out as part of the National Monitoring Network for the Prevention and Management of Marine Pest Incursions, as approved by the Monitoring Design Assessment Panel of the National Introduced Marine Pest Coordinating Group			Compliant

Audit Code	Subject	Action	When	Evidence	Status
				<p>Letter to DAFF/MDAP regarding delay in CLB Invasive Marine Species Survey (post) Wet Season 2011 (RTIO-HSE-0112990).</p> <p>DAFF/MDAP response regarding delay in CLB Invasive Marine Species Survey (post) Wet Season 2011 (RTIO-HSE-0114658).</p> <p>Cape Lambert Port B Development Invasive Marine Species Survey Monitoring (Post-Wet Season) Report (RTIO-HSE-0124033).</p> <p>Cape Lambert Port B Development 2011 Dry Season Invasive Marine Species Survey Implementation Plan (RTIO-HSE-0142576).</p> <p>MDAP Approval of Cape Lambert Port B Development 2011 Dry Season Invasive Marine Species Survey Implementation Plan (RTIO-HSE-0142577).</p> <p>Cape Lambert Port B Development 2011 Dry Season Invasive Marine Species Survey Report (RTIO-HSE-0142579).</p>	
209: DSDMP p113	IMS	<p>Outcomes from the monitoring program will be fed into the departure VRA, in order to assess the risk of non-trading vessels demobilising from Port Walcott. Targeted IMS monitoring will be undertaken at least every three years for the life of the project.</p>		<p>Refer to the Cape Lambert Port B Development Invasive Marine Species Survey Monitoring (Post-Wet Season) Report (RTIO-HSE-0124033).</p> <p>Refer to the Cape Lambert Port B</p>	Compliant

Audit Code	Subject	Action	When	Evidence	Status
				<p>Development 2011 Dry Season Invasive Marine Species Survey Report (RTIO-HSE-0142579).</p> <p>Refer to the following Iron Ore Document Management System folder: CLB Project Vessel Inspections CLB DoF Demobilisation Approvals (http://iodms/iodms/drl/objectId/0b0188a38038f479).</p>	
210: DSDMP pp109-110	IMS	<p>In accordance with Condition 9-2 of Ministerial Statement 840 exemptions from on-site inspections can be sought where certified low risk is established, as detailed below. <i>“Specified vessels and immersible equipment and vessels used to undertake single or multiple bunkering or other routine operational activities at neighbouring ports (Dampier and Port Hedland), will be exempt from the invasive marine species risk mitigation measures referred to in condition 9-1 if, prior to arriving or departing from Port Walcott, the CEO, on advice from the Department of Fisheries, has issued a written exemption for that specified vessel and immersible equipment to enter Port Walcott prior to an identified date, based on comprehensive information submitted by the Proponent that includes a risk assessment supported by documentation demonstrating biofouling management measures and a vessel activity profile since the most recent dry-dock cleaning.”</i></p>		<p>During the reporting period, thirty-two specified vessels were risk assessed by Department of Fisheries (DoF) approved specialists prior to mobilising to the Cape Lambert Port B development. Of these, the first 20 mobilisations were approved by the DoF only (as opposed to both the DoF and OEPA, as required by Condition 9-2).</p> <p>Once identified, this potential non-compliance was immediately reported to the OEPA (RTIO-HSE-0114946) and corrective actions were determined/initiated (RTIO-HSE-0114943/ RTIO-HSE-0114945).</p> <p>The OEPA were satisfied with these remedial measures and advised that no further action was required (RTIO-HSE-0118592). No environmental impact occurred due to this potential non-compliance.</p>	Potential Non Compliance
211: DSDMP pp111-112	IMS	<p>Photographs or video images will be taken during the inspection to confirm the degree of biofouling and overall risk status of the vessel. In the event that</p>		<p>Refer to the following Iron Ore Document Management System folder: CLB Project Vessel Inspections</p>	Compliant

Audit Code	Subject	Action	When	Evidence	Status
		sediment or known or suspected IMS are identified, photographic or video images showing the species will be taken, including the full extent of the fouling clearly visible.		(http://iodms/iodms/drl/objectId/0b0188a3803221af).	
212: DSDMP p112	IMS	In the event that an IMS is identified on vessel already in state waters, the DoF will be notified as soon as practicable but within 48 hours (following species confirmation).	within 48 hours of incident	No invasive marine species have been detected in Port waters to date.	Not applicable
213: DSDMP pp112-113	IMS	<p>As stipulated in Condition 9-3 of Ministerial Statement 840, IMS monitoring shall:</p> <ul style="list-style-type: none"> • be consistent with monitoring design, implementation and reporting standards set out as part of the National Monitoring Network for the Prevention and Management of Marine Pest Incursions, as approved by the Monitoring Design Assessment Panel of the National Introduced Marine Pest Coordinating Group; • include a review of target priority species prior to each monitoring survey; • include a range of sample sites focusing on habitats considered most capable of facilitating the establishment of priority target species throughout all areas of port activities including anchorages, wharves, jetties, slipways, harbours and natural substrates; • be undertaken a minimum of every three years for the life of the project; and • include opportunistic sampling and analysis of specimens removed during port and vessel maintenance activities. 		<p>Cape Lambert Port B Development Invasive Marine Species Survey Plan Rev 3 (RTIO-HSE-0109375).</p> <p>Submission of Cape Lambert Port B Development Invasive Marine Species Survey Plan Rev 3 to DAFF (RTIO-HSE-0109377).</p> <p>Letter to DAFF/MDAP regarding delay in CLB Invasive Marine Species Survey (post) Wet Season 2011 (RTIO-HSE-0112990).</p> <p>DAFF/MDAP response regarding delay in CLB Invasive Marine Species Survey (post) Wet Season 2011 (RTIO-HSE-0114658).</p> <p>Cape Lambert Port B Development Invasive Marine Species Survey Monitoring (Post-Wet Season) Report (RTIO-HSE-0124033).</p> <p>Cape Lambert Port B Development 2011 Dry Season Invasive Marine Species Survey Implementation Plan (RTIO-HSE-0142576).</p>	Compliant

Audit Code	Subject	Action	When	Evidence	Status
				MDAP Approval of Cape Lambert Port B Development 2011 Dry Season Invasive Marine Species Survey Implementation Plan (RTIO-HSE-0142577). Cape Lambert Port B Development 2011 Dry Season Invasive Marine Species Survey Report (RTIO-HSE-0142579).	
214: DSDMP p114	IMS	IMS inspection checklists: Checklist completed during vessel inspections including assessment of vessel pest status (DoF).	within 48 hours of each inspection	All invasive marine species inspections are conducted by Bill Bardsley, a Western Australian Department of Fisheries approved inspector (RTIO-HSE-0101214). Refer to the following Iron Ore Document Management System folder: CLB Project Vessel Inspections (http://iodms/iodms/drl/objectId/0b0188a3803221af).	Compliant
215: DSDMP p115	IMS	IMS inspection report: report on vessel inspection including vessel history (DoF).	within 10 business days of inspection	All invasive marine species inspections are conducted by Bill Bardsley, a Western Australian Department of Fisheries approved inspector (RTIO-HSE-0101214). Refer to the following Iron Ore Document Management System folder: CLB Project Vessel Inspections (http://iodms/iodms/drl/objectId/0b0188a3803221af).	Compliant
216: DSDMP p17	Responsibilities	Overall responsibility for the project and implementation of the DSDMP	RT Project Manager	The relevant RTIO Cape Lambert Port B Development Project Managers include Stuart Kennedy (Overall Project Manager) and Bira Stefano (CLB Marine Project Manager).	Compliant

Audit Code	Subject	Action	When	Evidence	Status
217: DSDMP p17	Responsibilities	Audit / compliance.	RT - SEA / EM	Refer to Cape Lambert Port B Development Compliance Assessment Plan Ministerial Statement 840 (RTIO-HSE-0100106).	Compliant
218: DSDMP p17	Responsibilities	Advise RT Project Manager and Project Team on environmental issues.	RT - SEA / EM	The RTIO Cape Lambert Port B Development Specialist Environmental Advisor attends weekly project planning meetings. Furthermore, internal team/group meetings are minuted. Minutes are submitted to the CLB project managers.	Compliant
219: DSDMP p17	Responsibilities	Liaise with government, submit reports to government, and notify government of incidents	RT - SEA / EM	The RTIO Cape Lambert Port B Development Specialist Environmental Advisor is responsible for all liaison with the regulators.	Compliant
220: DSDMP p17	Responsibilities	Manage the dredging and spoil disposal activities in compliance with the DSDMP	EPCM - Project Manager	Refer to this compliance assessment.	Compliant
221: DSDMP p17	Responsibilities	Communicate environmental requirements to the dredging contractor.	EPCM Construction manager	Refer to the Cape Lambert Port B Dredging and Spoil Disposal Management Plan (RTIO-HSE-0102815), Marine Turtle Management Plan (RTIO-HSE-0102817), Cetacean Management Plan (RTIO-HSE-0102816), Vessel Clearance Procedure (RTIO-HSE-0100916) and Construction Environmental Management Plan (RTIO-HSE-0056697).	Compliant
222: DSDMP p17	Responsibilities	Approves dredging contractors EMPs.	EPCM Construction manager	Refer to the Cape Lambert Port B Dredging and Spoil Disposal Management Plan (RTIO-HSE-0102815), Marine Turtle Management Plan (RTIO-HSE-0102817), Cetacean Management Plan (RTIO-HSE-0102816), Vessel Clearance Procedure (RTIO-HSE-0100916) and	Compliant

Audit Code	Subject	Action	When	Evidence	Status
				Construction Environmental Management Plan (RTIO-HSE-0056697).	
223: DSDMP p17	Responsibilities	Implementation of this DSDMP	EPCM Construction manager	Refer to this compliance assessment.	Compliant
224: DSDMP p17	Responsibilities	Implement the day-to-day environmental management of the works including regular audits of the environmental performance of dredging and spoil disposal activities.	EPCM Environmental lead	Refer to this compliance assessment.	Compliant
225: DSDMP p17	Responsibilities	Provide environmental advice with regards to the dredging and spoil disposal activities.	EPCM Environmental lead	Refer to this compliance assessment.	Compliant
226: DSDMP p17	Responsibilities	Coordinate environmental reporting.	EPCM Environmental Officer(s)	Refer to this compliance assessment.	Compliant
227: DSDMP p17	Responsibilities	Investigate and report environmental incidents.	EPCM Environmental Officer(s)	Refer to this compliance assessment.	Compliant
228: DSDMP p17	Responsibilities	Manage environmental contractors	EPCM Environmental Officer(s)	Refer to this compliance assessment.	Compliant
229: DSDMP p17	Responsibilities	Implement the environmental monitoring programs.	Marine Environmental Contractors - Project Manager	Refer to this compliance assessment.	Compliant
230: DSDMP p17	Responsibilities	Implement the vessel pest inspections.	Marine Environmental Contractors - Project Manager	Refer to this compliance assessment.	Compliant

Audit Code	Subject	Action	When	Evidence	Status
231: DSDMP p17	Responsibilities	Provide advice regarding environmental issues as required.	Marine Environmental Contractors - Project Manager	Refer to this compliance assessment.	Compliant
232: DSDMP p17	Responsibilities	Undertake the dredging and spoil disposal activities in a manner consistent with the DSDMP.	Dredging contractor - Project Manager	Refer to this compliance assessment.	Compliant
233: DSDMP 17	Responsibilities	Implement management measures as directed by the EPCM Construction Manager and as defined in the DSDMP.	Dredging contractor - Project Manager	Refer to this compliance assessment.	Compliant
234: DSDMP p17	Responsibilities	Ensure all dredging contractor staff and crew receive adequate environmental training.	Dredging contractor - Project Manager	Refer to the CLB EMP Training presentations (RTIO-HSE-0159769), CLB Specialised Environmental Training Presentations (RTIO-HSE-0159770), CLB Environmental Training Records (RTIO-HSE-0159772) and the CLB Environmental Induction (RTIO-HSE-0159773).	Compliant
235: DSDMP p17	Responsibilities	Provides advice with regards to the environmental management of the dredging and spoil disposal activities	Dredging contractor - Project Manager	Refer to the Cape Lambert Port B Dredging and Spoil Disposal Management Plan (RTIO-HSE-0102815), Marine Turtle Management Plan (RTIO-HSE-0102817), Cetacean Management Plan (RTIO-HSE-0102816), Vessel Clearance Procedure (RTIO-HSE-0100916) and Construction Environmental Management Plan (RTIO-HSE-0056697). Refer to the CLB EMP Training presentations (RTIO-HSE-0159769), CLB Specialised Environmental	Compliant

Audit Code	Subject	Action	When	Evidence	Status
				Training Presentations (RTIO-HSE-0159770), CLB Environmental Training Records (RTIO-HSE-0159772) and the CLB Environmental Induction (RTIO-HSE-0159773).	
236: DSDMP p17	Responsibilities	Ensure that all equipment is maintained in an appropriate condition to minimise the risk of environmental incidents	Dredging contractor - Project Manager	The TSDH underwent its 5-yearly survey in Singapore during September 2011.	Compliant
237: DSDMP p17	Responsibilities	Conduct all work in adherence to this DSDMP	All persons	Refer to this compliance assessment.	Compliant
238: DSDMP p17	Responsibilities	Exercise a 'Duty of Care' to the environment.	All persons	Refer to this compliance assessment.	Compliant
239: DSDMP p17	Responsibilities	Report all environmental incidents as soon as practically possible to the site environmental officer	All persons	Refer to reported/investigated/closed environmental incident reports on RTIO's Prospect Group Portal.	Compliant
240: DSDMP p16	Responsibilities	The proponent (RTIO) is responsible for the implementation of the proposal and adherence to the commitments made with the DSDMP.	ongoing	Refer to this compliance assessment.	Compliant
241: DSDMP p16	Responsibilities	The management of the works will be via the engagement of a contractor to undertake the Engineering, Procurement and Construction Management of the project.	ongoing	SKM Consulting have been engaged to undertake the Engineering, Procurement and Construction Management of the project	Completed
242: DSDMP p16	Responsibilities	The proponent will notify the Chief Executive Officer of the DSEWPaC of any change in the name and address of the proponent for serving of notices or other correspondence within thirty days of such a change	within 30 days of notice	Proponent name and address did not change during this reporting period.	Not applicable
243: DSDMP p16	Responsibilities	The proponent will ensure that all persons engaged in the dredging and spoil disposal activities, including the owner and person in charge of the dredging vessels, comply with the relevant permits and approvals and the requirements under the relevant Acts.	ongoing	Refer to this compliance assessment.	Compliant
244: DSDMP p16	Responsibilities	The proponent will provide a completed table of contacts to DEC and DSEWPaC at least seven days prior to the commencement of dredging and spoil disposal activities	At least 7 days prior to dredging	The project's key contacts are available within the DSDMP (RTIO-HSE-0102815).	Completed

Audit Code	Subject	Action	When	Evidence	Status
245: DSDMP p114	Sediment Quality Monitoring	Comparison of pre and post dredging survey results (DEC)	submitted within 3 months of completion of post dredging sediment PSD assessment	Dredging is still in process – post dredging surveys are yet to be conducted.	Not applicable
246: DSDMP p92	Sediment Quality Monitoring	The Particle Size Distribution of surface sediments in areas adjacent to the dredging area will be surveyed, both pre and post dredging, to assess the extent of any change in sediment characteristics as a result of the dredging and spoil activities.		Dredging is still in process – post dredging surveys are yet to be conducted.	Not applicable
247: DSDMP p92	Sediment Quality Monitoring	Surveys will be undertaken before and after the dredging and spoil disposal activities. Sediment samples of the top 10cm of surface sediment will be taken with increasing distance (250 m, 500 m, 1000 m, 2000 m and 5000 m) along 4 axes originating from the dredging footprint to record potential spatial variability in sediment characteristics within areas adjacent to the dredging footprint.		Dredging is still in process – post dredging surveys are yet to be conducted.	Not applicable
248: DSDMP p93	Sediment Quality Monitoring	PSD will be determined in the laboratory using laser diffraction and wet sieving techniques.		Dredging is still in process – post dredging surveys are yet to be conducted.	Not applicable
249: DSDMP p93	Sediment Quality Monitoring	For the purposes of reporting, sediment PSD data from the pre-dredging survey will be compared against the post-dredging data to assess the spatial extent of any changes in sediment characteristics attributable to the dredging and spoil disposal program.		Dredging is still in process – post dredging surveys are yet to be conducted.	Not applicable
250: DSDMP p53	Water Quality Monitoring	Water quality and sedimentation data will be collected to interpret changes in coral health at all sites. In addition, water quality data will provide an early warning of potential impacts to coral health within the Zone of Influence.		Refer to audit evidence in row 126 of this document.	Compliant

Audit Code	Subject	Action	When	Evidence	Status
251: DSDMP p84	Water Quality Monitoring	A water quality monitoring program will be implemented in accordance with the requirements of Condition 8-2, to manage potential direct impacts to corals from increased turbidity, and to interpret any changes in coral health that may occur.		Refer to audit evidence in row 126 of this document.	Compliant
252: DSDMP p85	Water Quality Monitoring	Compliance water quality monitoring will be undertaken in accordance with Condition 8-2. The program shall include the collection and analysis of turbidity (NTU), temperature (C), light climate (PAR), sedimentation (umol/m2/day) and PSD, as described in Section 5.2.4.		Refer to audit evidence in row 126 of this document.	Compliant
253: DSDMP p85	Water Quality Monitoring	Monitoring data will be collected at intervals of 14 days or less at the 13 primary monitoring sites (including one 'impact', five 'indicator', five 'influence' and two 'reference'), while data collection at the two contingency reference sites will be as required, as a component of the 'lines of evidence' investigation.		Refer to audit evidence in row 126 of this document.	Compliant
254: DSDMP p85	Water Quality Monitoring	The monitoring program shall be implemented prior to the commencement of dredging and spoil disposal activities.		Refer to audit evidence in row 126 of this document.	Compliant
255: DSDMP p85	Water Quality Monitoring	In accordance with Condition 8-5, water quality monitoring will be undertaken at the same frequency for a period of two months from the cessation of dredging and spoil disposal activities.		Dredging is still in process – post dredging surveys are yet to be conducted.	Not applicable
256: DSDMP p91	Water Quality Monitoring	The following water quality measurements will be collected during the dredging and spoil disposal program: a) turbidity (NTU) - in situ logging, every 30 min, 24 hours a day, data to be collected approximately every 14 days; b) temperature (C) - in situ logging, every 30 min, 24 hours a day, data to be collected approximately every 14 days; c) light (PAR-umol/m2/day) - in situ logging, every 30 min, 24 hours a day, data to be collected approximately every 14 days; d) gross sedimentation rates (mg/cm2/d) - sediment traps, every fortnight; and		Refer to audit evidence in row 126 of this document.	Compliant

Audit Code	Subject	Action	When	Evidence	Status
		e) particle size distribution - sediment traps and surrounding benthos - at a minimum of pre, during and post dredging.			
257: DSDMP p91	Water Quality Monitoring	Sampling will be undertaken approximately every fortnight, weather permitting, and the following procedures will be used (refer to TABLE 5-2 on page 91).		Refer to audit evidence in row 126 of this document.	Compliant
258: DSDMP p92	Water Quality Monitoring	As discussed in Section 3.9.2 water quality early warning criteria will be used to target coral health monitoring at particular sites to determine when additional management measures are required to reduce the risk of environmental damage.		Refer to audit evidence in row 126 of this document.	Compliant
259: DSDMP p92	Water Quality Monitoring	<p>To reduce potential impacts to BPPH, the following procedures will be implemented to limit the reaction time and to ensure management measures are implemented as soon as practicable. The turbidity data will be examined in the field to determine if nominated criteria have been exceeded. If so, the following actions will occur where practicable:</p> <ul style="list-style-type: none"> • before mobilising to site, the location and activities of the dredge will be provided to the field team to gain an appreciation of the sites that have been mostly influenced. This will assist in targeting specific areas and relating an exceedence to the dredging and spoil disposal activities for previous 14 days. • light data will be examined during operations, to determine if the corals are receiving enough light to maintain current health. The assessment will consider whether the impact on the available light is likely to have detrimental impact on the corals present by reference to the literature, and the information on light climate for each affected site. • if the assessment concludes that the scale and duration of an exceedence has impacted coral 	Everyday where data is downloaded	Refer to audit evidence in row 126 of this document.	Compliant

Audit Code	Subject	Action	When	Evidence	Status
		health because of significant curtailment of the available light then coral health monitoring and data analysis will be prioritised for sites where an exceedence has occurred.			
260: DSDMP p94	Water Quality Monitoring	<p>The following measures will be adhered to throughout the life of the monitoring program, given the importance of the data collection:</p> <ul style="list-style-type: none"> • All data sheets forwarded between parties will be accompanied with corresponding 'metadata' which outlines the key details of the data obtained. • All types of data collected will be aligned against a consisting time-stamp to allow accurate comparisons and analysis using computer modelling. • In cases where data gaps are present, the time series will be continued to remain consistent so that any data gaps are obvious. • The original downloaded data will always be stored as a 'raw' copy and will not be altered in any way; all modification and analysis of the data will be made from a copy of the 'raw' data. • Details of deployment, data retrieval, photographs, observations, etc will be recorded on field sheets for the turbidity, temperature and light loggers for 		Refer to audit evidence in row 126 of this document.	Compliant

Audit Code	Subject	Action	When	Evidence	Status
		<p>QAQC purposes.</p> <ul style="list-style-type: none"> Maintenance regime for the loggers will be recorded. 			
261: DSDMP p95	Water Quality Monitoring	<p>Water quality and coral health monitoring four weekly reports will consist of two fortnightly surveys. Reports will be submitted to DEC and DSEWPac within 10 business days after the second monitoring survey for that period. The water quality components of these reports will typically consist of the following:</p> <ul style="list-style-type: none"> water quality results including trends (e.g. medians, minimum/maximum turbidity) exceedence(s) of a nominated water quality early warning criteria and associated response actions including details on the light climate, dredging and spoil disposal activities and location. level of fouling/logger condition reliability/usefulness of data obtained brief interpretation of results 	10 business days	Refer to audit evidence in row 126 of this document.	Compliant
262: DSDMP p95	Water Quality Monitoring	Sediment PSD assessment report detailing the pre- and post dredging assessments and interpretation will be submitted to the DEC within 3 months after the post dredging survey.		Dredging is still in process – post dredging surveys are yet to be conducted.	Not applicable

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Table 3 Marine Turtle Management Plan Compliance Assessment

Audit Code	Subject	Action	How	Evidence	Satisfy	Phase	When	Status
MTMP Management Action 3.1	Design Phase Management Actions	Final design will aim to maximise the setback of stockpiles and other infrastructure from Bells Beach	Maximise setbacks as per 3.1	Not applicable, the final design is yet to be completed	RTIO DSEWPaC	Pre-construction	During the final design phase Prior to the commencement of construction activities	Not applicable
MTMP Management Action 3.2	Design Phase Management Actions	Ensure the final design does not result in any direct clearing of turtle nesting habitat on Bells Beach or Cooling Water Beach	Restrict clearing of clearing of turtle nesting habitat on Bells and Cooling Water beaches	Not applicable, the final design is yet to be completed	RTIO DSEWPaC	Pre-construction	During the final design phase Prior to the commencement of construction activities	Not applicable
MTMP Management Action 3.3	Design Phase Management Actions	Ensure the final design does not result in any direct clearing of the elevated foredune separating Bells Beach from the port facilities	Do not incorporate clearing of elevated foredune separating Bells Beach from the Port facilities in design	Not applicable, the final design is yet to be completed	RTIO DSEWPaC	Pre-construction	During the final design phase Prior to the commencement of	Not applicable

Audit Code	Subject	Action	How	Evidence	Satisfy	Phase	When	Status
							construction activities	
MTMP Management Action 3.4	Design Phase Management Actions	Ensure that final project design does not result in increased vehicle access onto Bells Beach or Cooling Water Beach		Not applicable, the final design is yet to be completed	RTIO DSEWPaC	Pre-construction	During the final design phase Prior to the commencement of construction activities	Not applicable
MTMP Management Action 3.5	Design Phase Management Actions	Stabilise primary dune vegetation (and enhance where opportunities are present), using locally occurring dune species	Stabilise primary dune vegetation using locally occurring dune species	Not applicable, no stabilisation works were conducted during this reporting period	RTIO DSEWPaC	Overall	Where opportunities present	Not applicable
MTMP Management Action 3.6	Design Phase Management Actions	Conduct a project lighting review to identify all static and mobile operational light sources	Conduct a project lighting review as per 3.6	Refer to the Cape Lambert Port B - First Phase Lighting Study Incorporating Wharf and Jetty Works (RTIO-HSE-0106625)	DSEWPaC	Pre-construction	Prior to the commencement of construction activities	In process
MTMP Management Action 3.7	Design Phase Management Actions	Provide a copy of the completed project lighting review to DSEWPaC by 31st January 2011	Provide project lighting review as per 3.7	Refer to the Cape Lambert Port B - First Phase Lighting Study Incorporating Wharf and Jetty Works (RTIO-HSE-0106625)	DSEWPaC	Pre-construction	Prior to the commencement of construction activities	In process

Audit Code	Subject	Action	How	Evidence	Satisfy	Phase	When	Status
				Final design not complete, consequently, the final lighting review has not been conducted				
MTMP Management Action 3.8	Design Phase Management Actions	Critically reassess all identified project lighting, giving consideration to functional and safety issues, with the objective of reducing light levels and light spill at Bells Beach and Cooling Water Beach and along the wharf	Reassess project lighting as per 3.7	Refer to the Cape Lambert Port B - First Phase Lighting Study Incorporating Wharf and Jetty Works (RTIO-HSE-0106625) Final design not complete, consequently, the final lighting review has not been conducted	DSEWPac	Pre-construction		In process
MTMP Management Action 3.9	Design Phase Management Actions	Produce a finalised project lighting specification based on the outcomes of the review process required by 3.6 and 3.7 above. The outcome of the first phase lighting review and analysis was provided to the DSEWPac in January 2011. Additional information in relation to the lighting review and analysis for the Cape Lambert Port B development, including the amendments to the tug	Produce finalised project lighting specifications as per 3.8.	Final design not complete, consequently, the final lighting review has not been conducted	DSEWPac	Pre-construction	31 January 2012	Not applicable

Audit Code	Subject	Action	How	Evidence	Satisfy	Phase	When	Status
		harbour will be submitted to DSEWPaC by 31 January 2012. Advice will be provided to DSEWPaC on what measures will be implemented, how these measures will address the relevant management actions and the timing for implementation						
MTMP Management Action 4.1	Construction Phase Management Actions, Responsibilities and Frequency	Apply the Approvals Request and permitting system to ensure no unauthorised clearing is undertaken	Apply the Approvals Request and permitting system	RTIO's incident reporting system confirms that all project works were subject to RTIO's Approvals Request system during this reporting period	DSEWPaC OEPA	Pre-construction Construction		Compliant
MTMP Management Action 4.2	Construction Phase Management Actions, Responsibilities and Frequency	Apply the Port B Development CEMP clearing procedures	As per the CEMP	RTIO's incident reporting system confirms that all were conducted in accordance with the CEMP during this reporting period	DSEWPaC OEPA	Construction		Compliant
MTMP Management Action 4.3	Construction Phase Management Actions, Responsibilities and Frequency	Include a marine turtle education and management requirements component in site inductions	Include a marine fauna component in site inductions	Refer to the CLB Site Specific Induction (RTIO-HSE-0125707) and the Marine Fauna Observation Training Package (RTIO-HSE-0128846)	DSEWPaC	Construction	During new starter site inductions	Compliant

Audit Code	Subject	Action	How	Evidence	Satisfy	Phase	When	Status
MTMP Management Action 4.4	Construction Phase Management Actions, Responsibilities and Frequency	No personnel or vehicles to access Bells Beach or Cooling Water Beach without EPCM EO approval	Demarcate Bells and Cooling Water as exclusion zones. Require that any personnel entering these zones receives EPCM EO	Refer to the dispensation for access to Bells and Cooling Water beaches for light spill monitoring (RTIO-HSE-0098712)	EPCM EO DSEWPaC	Construction	When access to Bells and Cooling Water beaches is required	Compliant
MTMP Management Action 4.5	Construction Phase Management Actions, Responsibilities and Frequency	Report any incidents involving marine turtles to DSEWPaC and DEC	Complete DEC Marine Turtle Stranding and Mortality Datasheet in the event of an incident involving marine turtles	There were no marine turtle incidents attributable to proposal implementation during this reporting period	DSEWPaC DEC	Construction	In the event of an incident involving marine turtles	Not applicable
MTMP Management Action 4.6	Construction Phase Management Actions, Responsibilities and Frequency	Adhere to requirements of statutory dredging permits in respect of turtle exclusion devices and turtle spotting within the dredge area and spoil grounds	Adhere to permits as per 4.6	Chains are installed on the TSHD drag heads (RTIO-HSE-0123380) Trained marine fauna observers are stationed on dredge vessels equipped with binoculars (RTIO-HSE-0123380) CLB General MFO Records Database – 2011 (RTIO-HSE-0129506) Refer to SKM audit reports (RTIO-HSE-	DSEWPaC	Construction	During dredging activities	Compliant

Audit Code	Subject	Action	How	Evidence	Satisfy	Phase	When	Status
				0159568, RTIO-HSE-0159569 and RTIO-HSE-0159574)				
MTMP Management Action 4.7	Construction Phase Management Actions, Responsibilities and Frequency	Pile driving is only to be conducted during daylight hours during the nesting period (October – March). MFOs are to be engaged to spot for marine turtles during pile driving within 500 m of pile driving	Engage trained MFOs and pile drive during daylight hours only	Refer to the CLB Marine Fauna Environmental Work Procedure (RTIO-HSE-0154440) Refer to the CLB Pile Driving MFO Records – 2011 (RTIO-HSE-0129510)	DSEWPaC	Construction	During pile driving activities	Compliant
MTMP Management Action 4.8	Construction Phase Management Actions, Responsibilities and Frequency	Any piling that must be conducted after daylight hours is to be staged such that works closest to Cooling Water Beach are outside of the nesting period		No piling activities were conducted outside of daylight hours during this reporting period	DSEWPaC	Construction	During pile driving activities	Not applicable
MTMP Management Action 4.9	Construction Phase Management Actions, Responsibilities and Frequency	Any approval to pile drive outside daylight hours will firstly be sought from the DEC; advice from DSEWPaC on any additional requirements will be sought	Seek approval from DEC and DSEWPaC to pile drive outside daylight hours	No piling activities were conducted outside of daylight hours during this reporting period	DSEWPaC	Construction	During pile driving activities	Not applicable
MTMP Management Action 4.10	Construction Phase Management Actions, Responsibilities and Frequency	Pile driving to be commenced with a soft start up procedure (ramping up over 15 minutes) to disperse any turtles in the vicinity prior to normal pile driving	Soft start all pile driving activities	Refer to the CLB Marine Fauna Environmental Work Procedure (RTIO-HSE-0154440)	DSEWPaC	Construction	During pile driving activities	Compliant

Audit Code	Subject	Action	How	Evidence	Satisfy	Phase	When	Status
				Refer to the CLB Pile Driving MFO Records – 2011 (RTIO-HSE-0129510)				
MTMP Management Action 4.11	Construction Phase Management Actions, Responsibilities and Frequency	No pile driving will commence until the designated MFOs have verified that no marine turtles have been observed within an area 500 m from the planned piling operation during the 15 minute period immediately prior to commencement	MFO verify there are no marine turtles within exclusion zones during the 15 minute immediately prior to commencement	Refer to the CLB Marine Fauna Environmental Work Procedure (RTIO-HSE-0154440) Refer to the CLB Pile Driving MFO Records – 2011 (RTIO-HSE-0129510)	DSEWPaC	Construction	During the 15 minute period immediately prior to pile driving activities	Compliant
MTMP Management Action 4.12	Construction Phase Management Actions, Responsibilities and Frequency	If MFOs see a turtle entering within 500 m of a single piling operation, the piling operation within that distance from the marine turtle will be suspended	Suspend piling operations in the event that a turtle enters within 500 m of a single piling operation	Refer to the CLB Marine Fauna Environmental Work Procedure (RTIO-HSE-0154440) Refer to the CLB Pile Driving MFO Records – 2011 (RTIO-HSE-0129510)	DSEWPaC	Construction	During pile driving activities	Compliant
MTMP Management Action 4.13	Construction Phase Management Actions, Responsibilities and Frequency	Develop and implement a possible nest relocation programme for Cooling Water Beach, in liaison with DEC and DSEWPaC, in the event that monitoring indicates a significant decline in nest success	Develop and implement a possible nest relocation programme for Cooling Water Beach	No decline in nesting success attributable to project implementation has been observed at Cooling Water Beach, as detailed within the Cape	DSEWPaC DEC	Construction	In the event that monitoring indicates a significant decline in	Not applicable

Audit Code	Subject	Action	How	Evidence	Satisfy	Phase	When	Status
		relative to other beaches. DEC and DSEWPaC approval will be required before this strategy is adopted		Lambert Marine Turtle Monitoring Program 2010/2011 Monitoring Results (RTIO-HSE-0125485)			nest success relative to other beaches	
MTMP Management Action 5.1	Operations Phase Management Timing and Frequency	Identify and address any processes affecting the long-term stability of the primary dune at Bells Beach	Monitor primary dune landform for overall stability, vegetation cover and any evidence of erosive processes	Not applicable, the project is still in the construction phase	DSEWPaC	Operation	Biennial	Not applicable
MTMP Management Action 5.2	Operations Phase Management Timing and Frequency	Implement dune surface stabilisation and revegetation programme at the Bells Beach primary dune if monitoring indicates landform stability is being compromised	Implement dune surface stabilisation and revegetation programme	Not applicable, the project is still in the construction phase	DSEWPaC	Operation	As required	Not applicable
MTMP Management Action 5.3	Operations Phase Management Timing and Frequency	Identify any sections of beaches that are subject to elevated light levels from artificial sources	Conduct light monitoring at Bells and Cooling water beaches	Not applicable, the project is still in the construction phase	DSEWPaC	Operation	Marine turtle nesting season	Not applicable
MTMP Management Action 5.4	Operations Phase Management Timing and Frequency	Develop and implement additional lighting design modifications to address source of elevated light levels	Develop lighting design / modifications as per 5.4	Not applicable, the project is still in the construction phase	DSEWPaC	Operation	As required	Not applicable
MTMP Management Action 5.5	Operations Phase Management Timing and Frequency	Provide initial report on light spill analysis	Complete and provide light spill analysis report	Not applicable, the project is still in the construction phase	DSEWPaC	Operation	Within 6 months of commissioning	Not applicable

Audit Code	Subject	Action	How	Evidence	Satisfy	Phase	When	Status
MTMP Management Action 5.6	Operations Phase Management Timing and Frequency	Continue dust management improvement programme	Continue dust management improvement programme	Not applicable, the project is still in the construction phase	DSEWPaC	Operation		Not applicable
MTMP Management Action 5.7	Operations Phase Management Timing and Frequency	Include a marine turtle education and management requirements component in site inductions	Include a marine turtle education and management requirements component in site inductions	Not applicable, the project is still in the construction phase	DSEWPaC	Operation	During new starter site inductions	Not applicable
MTMP Management Action 5.8	Operations Phase Management Timing and Frequency	No personnel or vehicles to access Bells Beach or Cooling Water Beach without SEO approval	Demarcate Bells and Cooling Water as exclusion zones. Require that any personnel entering these zones receives SEO approval	Not applicable, the project is still in the construction phase	SEO DSEWPaC	Operation	When access to Bells and Cooling Water beaches is required	Not applicable
MTMP Management Action 5.9	Operations Phase Management Timing and Frequency	Implement misoriented turtle protocol and liaise with DEC and DSEWPaC as required	Obtain Regulation 17 Licence to take Fauna Licence and implement misoriented turtle protocol	Not applicable, the project is still in the construction phase	DEC	Operation		Not applicable
MTMP Management Action 5.10	Operations Phase Management Timing and Frequency	Report any incidents involving marine turtles	Complete and submit the DEC Marine Turtle Stranding and Mortality Datasheet – Pilbara Region	Not applicable, the project is still in the construction phase	DSEWPaC DEC	Operation	In the event of an incident involving marine turtles	Not applicable
MTMP Management Action	Operations Phase Management	Develop and implement effective waste management practices for	Develop and implement effective waste management	Not applicable, the project is still in the	DSEWPaC	Operation		Not applicable

Audit Code	Subject	Action	How	Evidence	Satisfy	Phase	When	Status
5.11	Timing and Frequency	the Cape Lambert landfill or its replacement	practices for the Cape Lambert landfill or its replacement	construction phase				
MTMP Management Action 5.12	Operations Phase Management Timing and Frequency	Continue fox baiting programme in the Cape Lambert area	Continue fox baiting programme in the Cape Lambert area	Not applicable, the project is still in the construction phase	DSEWPaC	Operation		Not applicable
MTMP Management Action 5.13	Operations Phase Management Timing and Frequency	Develop a relocation protocol for misoriented turtles in liaison with the DEC and the DSEWPaC	Develop a relocation protocol for misoriented turtles in liaison with the DEC and the DSEWPaC	Not applicable, the project is still in the construction phase	DSEWPaC DEC	Operation		Not applicable
MTMP Management Action 5.14	Operations Phase Management Timing and Frequency	Continue to exclude (high speed) recreational vessels from around the Cape Lambert wharves and jetties	Port Manager to continue to exclude (high speed) recreational vessels from around the Cape Lambert wharves and jetties	Not applicable, the project is still in the construction phase	DSEWPaC DEC	Operation	At all times	Not applicable
MTMP Management Action 6.1	Monitoring Actions, Responsibilities, Frequency and Timing	Design and implement a monitoring plan for the Bells Beach primary dune	Design and implement a monitoring plan for the Bells Beach primary dune	Refer to the Cape Lambert Port B Development Marine Turtle Management Plan Implementation is in process	DSEWPaC	Construction		In process
MTMP Management	Monitoring Actions,	Undertake field monitoring of incident light levels at	Undertake field monitoring of	There were no night time works during the	DSEWPaC	Overall	Annually	Compliant

Audit Code	Subject	Action	How	Evidence	Satisfy	Phase	When	Status
nt Action 6.2	Responsibilities, Frequency and Timing	Bells Beach and Cooling Water Beach and regional sites	incident light levels at Bells Beach and Cooling Water Beach and regional sites	2011 marine turtle nesting season. Monitoring conduction by Rio Tinto Operations confirmed that there was no direct light spill on Bells beach (RTIO-HSE-1051847)				
MTMP Manageme nt Action 6.3	Monitoring Actions, Responsibilities, Frequency and Timing	Capture light level data into a database and GIS	Capture light level data into a database and GIS	Refer to the Cape Lambert Marine Turtle Monitoring Program 2010/11 Monitoring Results (RTIO-HSE-0125485)	DSEWPaC	Overall	Annually	Compliant
MTMP Manageme nt Action 6.4	Monitoring Actions, Responsibilities, Frequency and Timing	Investigate the use of sky glow image monitoring from fixed viewsheds at Bells Beach and Cooling Water Beach and regional sites	Investigate the use of sky glow image monitoring from fixed viewsheds at Bells Beach and Cooling Water Beach and regional sites	Refer to the Cape Lambert Marine Turtle Monitoring Program 2010/11 Monitoring Results (RTIO-HSE-0125485)	DSEWPaC	Overall	Annually	Compliant
MTMP Manageme nt Action 6.5	Monitoring Actions, Responsibilities, Frequency and Timing	Undertake vibration monitoring at Cooling Water Beach during pile driving activities in the nesting season	Undertake vibration monitoring at Cooling Water Beach during pile driving activities in the nesting season	No piling occurred during the marine turtle nesting season	DSEWPaC	Construction	One season	Not applicable
MTMP Manageme nt Action 6.6	Monitoring Actions, Responsibilities, Frequency and	Monitor noise associated with pile driving during initial operations to collect data to assist future noise	Monitor noise associated with pile driving during initial operations	Refer to the Underwater Measurements of CLB Pile Driving	DSEWPaC	Overall	During pile driving	Compliant

Audit Code	Subject	Action	How	Evidence	Satisfy	Phase	When	Status
	Timing	modelling		Draft B Report (RTIO-HSE-0128853) Refer to the CLB Piling Noise Management Plan (RTIO-HSE-0140510)				
MTMP Management Action 6.7	Monitoring Actions, Responsibilities, Frequency and Timing	Measure underwater noise from pile driving to establish a library of sound signals from various piling scenarios suitable for reviewing the predictive capacity of the noise propagation model used for Port B Development, and enable recommendations for improving the accuracy of future underwater noise modelling	Measure underwater noise	Refer to the Underwater Measurements of CLB Pile Driving Draft B Report (RTIO-HSE-0128853)	DSEWPaC	Construction	During pile driving	In process
MTMP Management Action 6.8	Monitoring Actions, Responsibilities, Frequency and Timing	Undertake nesting success monitoring at Cooling Water Beach and Bells Beach during pile driving activities in the nesting season	Undertake nesting success monitoring	Refer to the Cape Lambert Marine Turtle Monitoring Program 2010/2011 Monitoring Results (RTIO-HSE-0125485)	DSEWPaC	Construction	During pile driving	Compliant
MTMP Management Action 6.9	Monitoring Actions, Responsibilities, Frequency and Timing	Undertake nesting activity monitoring at Bells Beach and Cooling Water Beach, and collect contextual data at reference sites	Undertake nesting activity monitoring at Bells Beach and Cooling Water Beach, and collect contextual data at	Refer to the Cape Lambert Marine Turtle Monitoring Program 2010/2011 Monitoring Results (RTIO-HSE-	DSEWPaC	Overall	Annually	Compliant

Audit Code	Subject	Action	How	Evidence	Satisfy	Phase	When	Status
			reference sites	0125485)				
MTMP Management Action 6.10	Monitoring Actions, Responsibilities, Frequency and Timing	Monitor hatchling dispersal patterns in onshore habitats	Monitor hatchling dispersal patterns	Refer to the Cape Lambert Marine Turtle Monitoring Program 2010/2011 Monitoring Results (RTIO-HSE-0125485)	DSEWPaC	Overall	Annually	Compliant
MTMP Management Action 6.11	Monitoring Actions, Responsibilities, Frequency and Timing	Conduct tagging programme for turtles utilising Bells Beach and Cooling Water beach to examine long term population changes	Conduct tagging programme as per 6.11	Refer to the Cape Lambert Marine Turtle Monitoring Program 2010/2011 Monitoring Results (RTIO-HSE-0125485)	DSEWPaC	Overall	Annually	Compliant
MTMP Management Action 6.12	Monitoring Actions, Responsibilities, Frequency and Timing	Continue incident reporting programme and analyse turtle related incidents	Complete and submit the DEC Marine Turtle Stranding and Mortality Datasheet – Pilbara Region	No incidents involving marine turtles occurred during this reporting period	DSEWPaC	Overall	When an incident occurs involving marine turtles	Not applicable
MTMP Management Action 6.13	Monitoring Actions, Responsibilities, Frequency and Timing	Report mortalities of marine turtles found within the Port B Development work area through notification to DSEWPaC within 48 hours of the sighting	Complete and submit the DEC Marine Turtle Stranding and Mortality Datasheet – Pilbara Region	No marine turtle mortalities during this reporting period	DSEWPaC	Overall	Within 48 hours of sighting	Not applicable
MTMP Management Action 6.14	Monitoring Actions, Responsibilities, Frequency and Timing	Undertake an investigation if the injured or dead turtle is attributed to the Port B Development and refer to one of three trigger levels to guide any management response	Undertake an investigation as per 6.14	No marine turtle mortalities occurred during this reporting period	DSEWPaC	Overall	In the event of a marine turtle mortality which is attributable to the	Not applicable

Audit Code	Subject	Action	How	Evidence	Satisfy	Phase	When	Status
							Port B Development	
MTMP Management Action 6.15	Monitoring Actions, Responsibilities, Frequency and Timing	Report to the DSEWPaC if any turtles/hatchlings need to be relocated outlining matters such as the reason for the relocation, the site where the turtles/hatchling was relocated from and where it was relocated to, and timing) within 48 hours	Report on relocated turtles/hatchlings as per 6.15	No marine turtle relocations occurred during this reporting period	DSEWPaC	Overall	Within 48 hours of a marine turtle relocation	Not applicable
MTMP Management Action 7.1	Summary of Reporting Actions and Responsibilities	Prepare internal and external reports on marine turtle monitoring and management	Prepare marine turtle monitoring and management	Refer to the Cape Lambert Marine Turtle Monitoring Program 2010/2011 Monitoring Results (RTIO-HSE-0125485) Refer to the Cape Lambert Port B Marine Turtle Management Plan (RTIO-HSE-0102817)	DSEWPaC	Overall	Annually	Compliant
MTMP Management Action 7.2	Summary of Reporting Actions and Responsibilities	Undertake annual continuous improvement review based on outcomes of 7.1 above, in consultation with DEC and DSEWPaC	Annual review	Refer to the Cape Lambert Marine Turtle Monitoring Program 2010/2011 Monitoring Results (RTIO-HSE-0125485)	DSEWPaC	Overall	Annually	Compliant

Audit Code	Subject	Action	How	Evidence	Satisfy	Phase	When	Status
MTMP Management Action 7.3	Summary of Reporting Actions and Responsibilities	Employ an EMA as part of implementation of the Cape Lambert Port B Development	Employ Ecosystems Monitoring Adviser	Jason Rossendell is acting as the Ecosystems Monitoring Adviser	DSEWPaC	Implementation	Once	Compliant
MTMP Management Action 7.4	Summary of Reporting Actions and Responsibilities	Consult with DEC, DSEWPaC and other stakeholders in regards to turtle monitoring and management	Consult with DEC and DSEWPaC as per 7.4	<p>Refer to the Cape Lambert Marine Turtle Monitoring Program 2010/2011 Monitoring Results (RTIO-HSE-0125485)</p> <p>Refer to the Cape Lambert Port B Marine Turtle Management Plan (RTIO-HSE-0102817)</p> <p>Refer to the Minister's approval for the Marine Turtle Management Plan (RTIO-HSE-0103134)</p>	DSEWPaC DEC	Overall	As required	Compliant
MTMP Management Action 7.5	Summary of Reporting Actions and Responsibilities	Provide annual report to the Minister for SEWPaC addressing compliance with the conditions of EPBC 2008/4032, including this MTMP (Condition 18)	Provide annual compliance report	This document	Minister for SEWPaC	Overall	Annually	Compliant
MTMP Management Action 7.6	Summary of Reporting Actions and Responsibilities	Provide Compliance Assessment Report to the OEPA addressing compliance with the	Provide Compliance Assessment Reports to the	Refer to the Cape Lambert Port B Development Compliance	OEPA	Overall	Annually	Compliant

Audit Code	Subject	Action	How	Evidence	Satisfy	Phase	When	Status
		conditions of Ministerial Statement 840 (Condition 4)	OEPA	Assessment Plan and Audit Table Ministerial Statement 840 (RTIO-HSE-0100106)				

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Table 4 Cetacean Management Plan Compliance Assessment

Audit Code	Subject	Action	How	Evidence	Satisfy	Phase	When	Status
CMP Table 3-2.1	Vessel movement mitigation and management measures	Prior to commencement of dredging and construction activities, nominated crew will receive training from a qualified person. This training will include details of procedures to be followed in the event of marine mammals sightings, injury or death	Provide training to nominated crew from a qualified person in accordance with 3-2.1	<p>Marine mammal training has been carried out by Todd Jess, an accredited trainer (RTIO-HSE-0123380)</p> <p>Refer to the CLB EMP Training presentations (RTIO-HSE-0159769), CLB Specialised Environmental Training Presentations (RTIO-HSE-0159770), CLB Environmental Training Records (RTIO-HSE-0159772) and the CLB Environmental Induction (RTIO-HSE-0159773)</p> <p>Refer to the CLB General MFO Records Database – 2011 (RTIO-HSE-0129506)</p>	Minister for DSEWPaC	Construction	Prior to the commencement of dredging and construction activities	Compliant
CMP Table 3-2.2	Vessel movement mitigation and management measures	Marine mammals (except dolphin) observation and response procedures, including the application of a 1 km observation zone	Implement observation and response procedures, and exclusion zones as	Trained marine fauna observers are stationed on dredge vessels equipped with binoculars	Minister for DSEWPaC	Construction	During dredge and spoil disposal activities	Compliant

Audit Code	Subject	Action	How	Evidence	Satisfy	Phase	When	Status
		and a 300 m vessel movement exclusion zone, will be implemented during dredging, spoil disposal and construction works	per 3-2.2	(RTIO-HSE-0123380) Refer to the CLB General MFO Records Database – 2011 (RTIO-HSE-0129506)				
CMP Table 3-2.3	Vessel movement mitigation and management measures	An appropriately trained lookout will be maintained for cetaceans while any dredging or construction vessels travel within the project area	Provide training to nominated crew from a qualified person in accordance with 3-2.1 Maintain an appropriately trained lookout as per 3-2.3	Trained marine fauna observers are stationed on dredge vessels equipped with binoculars (RTIO-HSE-0123380) Refer to the CLB General MFO Records Database – 2011 (RTIO-HSE-0129506)	Minister for DSEWPaC	Construction	During vessel transit	Compliant
CMP Table 3-2.4	Vessel movement mitigation and management measures	In the event that a cetacean is sighted by the nominated lookout, vessel speeds and direction will be adjusted to avoid the observed individual (within the safety constraints of the vessel)	Adjust vessel speeds and direction as per 3-2.3 in the event of a cetacean sighting	Trained marine fauna observers are stationed on dredge vessels equipped with binoculars (RTIO-HSE-0123380) Refer to the CLB General MFO Records Database – 2011 (RTIO-HSE-0129506)	Minister for DSEWPaC	Construction	In the event that a cetacean is sighted	Compliant

Audit Code	Subject	Action	How	Evidence	Satisfy	Phase	When	Status
CMP Table 3-2.5	Vessel movement mitigation and management measures	All port related vessels will be made aware of the locations of the dredges and associated equipment such as floating or submerged pipelines, cables and support vessels. Information will be exchanged between involved parties with regards to planned shipping movements and dredging activities. Should marine mammals be sighted within 300 m of dredging and /or spoil disposal activities, all construction vessels operating as a component of the Port B development will be notified.	Notify all port related vessels of dredgers and associated equipment, as per 3-2.5	<p>The project's Notice to Mariners is available on the Western Australian Department of Transport website and is linked here:</p> <p>http://www.transport.wa.gov.au/mediaFiles/mar_Not2010143CapeLambertDredgingSoilGround.pdf</p> <p>http://www.transport.wa.gov.au/mediaFiles/Not2012_26_DredgingCapeLambertPortWalcottWestPilbara.pdf</p> <p>Port related vessels are informed via radio of the locations of dredges and associated equipment (RTIO-HSE-0123380).</p> <p>All dredging activities / locations are conducted based on the project schedule. This schedule is available to the entire</p>	Minister for DSEWPac	Construction	During Piling	Compliant

Audit Code	Subject	Action	How	Evidence	Satisfy	Phase	When	Status
				<p>project team.</p> <p>Trained marine fauna observers are stationed on dredge vessels equipped with binoculars (RTIO-HSE-0123380)</p> <p>Refer to the CLB General MFO Records Database – 2011 (RTIO-HSE-0129506)</p>				
CMP Table 3-2.6	Vessel movement mitigation and management measures – Reporting	Pilbara Iron will record and report (i.e. email / fax statement), all marine mammal (including dolphin) injury and mortality incidents to the DEC and DSEWPaC within 24 hours. Details will include the time and nature of each incident and the species involved, if known.	Record and report all marine mammal injuries and mortalities to the DEC and DSEWPaC as per 3-2.6	No injuries or mortalities recorded during this reporting period	Minister for DSEWPaC and CEO of the OEPA	Construction	Within 24 hours of the injury or mortality	Not applicable
CMP Table 3-2.7	Vessel movement mitigation and management measures – Reporting	All sightings of marine mammals (except dolphins) will be recorded on a Cetacean and Marine Fauna Survey Form	Record all cetacean sightings (excluding dolphins)	<p>Refer to the CLB General MFO Records Database – 2011 (RTIO-HSE-0129506)</p> <p>Refer to the CLB Pile Driving MFO</p>	Minister for DSEWPaC	Construction	When sightings occur	Compliant

Audit Code	Subject	Action	How	Evidence	Satisfy	Phase	When	Status
				Records – 2011 (RTIO-HSE-0129510)				
CMP Table 3-3.1	Pile driving activities mitigation and management measures	<p>Pilbara Iron will engage a dedicated Marine Fauna Observer/s who will:</p> <ol style="list-style-type: none"> 1. Demonstrate a knowledge and experience of marine wildlife species and their behaviours in the Pilbara region 2. Have the capacity, subject to safety considerations, to move independently between pile driving barges and within the exclusion zones surrounding piling operations 3. Be on duty during all daylight hours when pile driving operations are conducted 4. Maintain a log of: <ol style="list-style-type: none"> a. Observed cetaceans in a format consistent with the National Cetacean Sighting and Strandings Database. b. Other marine fauna observations, including fish kills and wildlife injuries within 500 m of piling operations. c. Fauna behaviours, in 	<p>Engage a dedicated Marine Fauna Observer in accordance with the requirements of 3-3.1</p> <p>Maintain a log of cetacean observations and activities as specified in M7.1</p>	Refer to the CLB Pile Driving MFO Records – 2011 (RTIO-HSE-0129510)	Minister for DSEWPaC	Construction	Prior to the commencement of piling activities	Compliant

Audit Code	Subject	Action	How	Evidence	Satisfy	Phase	When	Status
		<p>particular any behaviours that could be attributed to piling activities.</p> <p>d. Management responses in relation to dead and injured wildlife, including the suspension of piling activities.</p> <p>e. Observation effort in relation to piling activities.</p>						
CMP Table 3-3.2	Pile driving activities mitigation and management measures	Pilbara Iron will implement a marine fauna exclusion zone for sensitive species (Humpback whales or other cetaceans, excluding dolphins) consisting of a 2 000 m radius from the noise emission source (i.e. pile driving)	<p>Engage a dedicated Marine Fauna Observer in accordance with the requirements of 3-3.1</p> <p>Maintain a log of cetacean observations and activities as specified in M7.1</p> <p>Implement fauna exclusion zones as per 3-3.2</p>	Refer to the CLB Pile Driving MFO Records – 2011 (RTIO-HSE-0129510)	Minister for DSEWPaC	Construction	During piling activities	Compliant
CMP Table 3-3.3	Pile driving activities mitigation and management measures	Pile driving will be conducted during daylight hours (defined between 6am and 7pm only).	Pile driving is restricted to the hours of 7 am to 7 pm, as per the <i>Western Australian Environmental Protection (Noise) Regulations 1997</i>	Refer to the CLB Pile Driving MFO Records – 2011 (RTIO-HSE-0129510)	Minister for DSEWPaC and CEO of the OEPA	Construction	During piling activities	Compliant

Audit Code	Subject	Action	How	Evidence	Satisfy	Phase	When	Status
CMP Table 3-3.4	Pile driving activities mitigation and management measures	Where an application to pile drive at night (beyond those defined hours above) is sought from or approved by the DEC, Pilbara Iron will update the CMP accordingly and submit it for approval by the Minister in accordance with Condition 20 of EPBC 2008/4032.	Not applicable Pile driving is restricted to the hours of 7 am to 7 pm, as per the <i>Western Australian Environmental Protection (Noise) Regulations 1997</i>	No applications to pile at night were submitted during this reporting period No pile driving occurred during the night during this reporting period Response from DEC Noise Branch on Noise Management Plan for out of hours construction for piling works (RTIO-HSE-0104503)	Minister for DSEWPaC and CEO of the OEPA	Construction	Prior to pile driving at night	Compliant
CMP Table 3-3.5	Pile driving activities mitigation and management measures	Pile driving activities will not commence during daylight hours, until the designated Marine Fauna Observer/s have verified that no whales have been observed within 2.5 km, from the planned piling operation, during the 20 minute period immediately prior to the commencement of pile driving.	Marine fauna observer to monitor surrounding waters for 20 minutes immediately prior to the commencement of piling activities, as per 3-3.5	Refer to the CLB Pile Driving MFO Records – 2011 (RTIO-HSE-0129510)	Minister for DSEWPaC	Construction	20 minutes prior to the commencement of piling activities	Compliant
CMP Table 3-3.6	Pile driving activities mitigation and management	Soft start-up procedures that slowly increase the intensity of noise emissions over a period of no less	Implement soft-start procedures as per 3-3.6	Refer to the CLB Pile Driving MFO Records – 2011 (RTIO-HSE-	Minister for DSEWPaC and CEO of the OEPA	Construction	Prior to the commencement of	Compliant

Audit Code	Subject	Action	How	Evidence	Satisfy	Phase	When	Status
	measures	than 20 minutes will be implemented.		0129510)			full power pile driving	
CMP Table 3-3.7	Pile driving activities mitigation and management measures	Should sensitive marine fauna (Humpback whales or other cetaceans) be observed or enter into the 2 000 m exclusion zone, pile driving will cease until such time as the cetacean has, or cetaceans have, moved outside the 2 000 m exclusion zone or has not been sighted for 20 minutes	Establishment of whale exclusion zones	Refer to the CLB Pile Driving MFO Records – 2011 (RTIO-HSE-0129510)	Minister for DSEWPaC	Construction	When a cetacean enters into the 2000 m exclusion zone	Compliant
CMP Table 3-3.8	Pile driving activities mitigation and management measures	No pile driving shall occur between the hours of sunset and sunrise during the peak southern migration of mother and calf humpback whale pods defined as 15 September to 10 October in any year	Pile driving is restricted to the hours of 7 am to 7 pm, as per the Western Australian <i>Environmental Protection (Noise) Regulations 1997</i>	Refer to the CLB Pile Driving MFO Records – 2011 (RTIO-HSE-0129510)	Minister for DSEWPaC and CEO of the OEPA	Construction	Between September 15 and October 10 in any year	Compliant
CMP Table 3-3.9	Pile driving activities mitigation and management measures	Pilbara Iron will implement acoustic controls on the pile drivers to reduce noise at source.	Investigate and implement acoustics controls on the pile where practicable	Refer to the air curtain trail (RTIO-HSE-0131640)	Minister for DSEWPaC	Construction	When practicable	Compliant
CMP Table 3-3.10	Pile driving activities mitigation and management measures	Warning strikes will not be used to deter cetaceans from the area	Communicate to the pile driving contractor that warning strikes will not be used to deter cetaceans Implement soft-start	Refer to the CLB Pile Driving MFO Records – 2011 (RTIO-HSE-0129510)	Minister for DSEWPaC	Construction	Never	Compliant

Audit Code	Subject	Action	How	Evidence	Satisfy	Phase	When	Status
			requirements as per as per 3-3.6					
CMP Table 3-3.11	Pile driving activities mitigation and management measures	Vessels will not be used to herd cetaceans from the area	Communicate to the pile driving contractor that cetaceans cannot be herded	No cetaceans were herded during the reporting period, as required Refer to the CLB Pile Driving MFO Records – 2011 (RTIO-HSE-0129510)	Minister for DSEWPaC	Construction	Never	Compliant
CMP Table 3-3.12	Pile driving activities mitigation and management measures – Reporting	Pilbara Iron will record and report (i.e. email / fax statement), all marine mammal (including dolphin) injury and mortality incidents to the DEC and DSEWPaC within 24 hours. Details will include the time and nature of each incident and the species involved, if known	Record and report all marine mammal injuries to the DEC and DSEWPaC as per 3-3.12	No injuries or mortalities recorded during this reporting period	Minister for DSEWPaC and CEO of the OEPA	Construction	Within 24 hours of the injury or mortality	Not applicable
CMP Table 3-3.13	Pile driving activities mitigation and management measures – Reporting	All sightings of marine mammals (except dolphins) will be recorded	Record all cetacean sightings (excluding dolphins)	Refer to the CLB Pile Driving MFO Records – 2011 (RTIO-HSE-0129510)	Minister for DSEWPaC	Construction	When sightings occur	Compliant No injuries or mortalities recorded during this reporting period
CMP Table 3-3.14	Pile driving activities	Pilbara Iron will within six months of completing pile	Lodge cetacean records with the	Pile driving activities are not complete	Minister for DSEWPaC	Construction.	Within six months of	Not applicable

Audit Code	Subject	Action	How	Evidence	Satisfy	Phase	When	Status
	mitigation and management measures – Reporting	driving operations for the Port B development, lodge cetacean records with the National Cetacean Sighting and Strandings Database at the Australian Antarctic Division	National Cetacean Sighting and Strandings Database at the Australian Antarctic Division as per 3-3.14				completing pile driving operations	Pile driving activities are not complete
CMP Table 3-4.1	Dredging and spoil disposal mitigation and management measures	Prior to commencement of dredging activities, all appropriate crew will receive training from a qualified person. This training will include details of procedures to be followed in the event of marine mammals sighting, injury or death	Provide training to nominated crew from a qualified person in accordance with 3-4.1	Refer to the CLB EMP Training presentations (RTIO-HSE-0159769), CLB Specialised Environmental Training Presentations (RTIO-HSE-0159770), CLB Environmental Training Records (RTIO-HSE-0159772) and the CLB Environmental Induction (RTIO-HSE-0159773) Refer to the CLB General MFO Records Database – 2011 (RTIO-HSE-0129506)	Minister for DSEWPaC	Pre-construction	Prior to the commencement of dredging and construction activities	Compliant
CMP Table 3-4.2	Dredging and spoil disposal mitigation and management measures	Marine mammal (except dolphin) observation and response procedures including the application of a 1 km observation zone and a 300 m monitoring zone will be implemented	Implement observation and response procedures, and exclusion zones as per 3-4.2	Trained marine fauna observers are stationed on dredge vessels equipped with binoculars (RTIO-HSE-0123380)	Minister for DSEWPaC	Construction	During dredge and spoil disposal activities	Compliant

Audit Code	Subject	Action	How	Evidence	Satisfy	Phase	When	Status
		during dredging and spoil disposal activities		Refer to the CLB General MFO Records Database – 2011 (RTIO-HSE-0129506)				
CMP Table 3-4.3	Dredging and spoil disposal mitigation and management measures	Prior to commencement of dredging and spoil disposal activities, an appropriately trained lookout will check, using binoculars from a high observation platform on the vessel, for cetaceans within the 300 m monitoring zone.	Maintain an appropriately trained lookout as per 3-4.3	Trained marine fauna observers are stationed on dredge vessels equipped with binoculars (RTIO-HSE-0123380) Refer to the CLB General MFO Records Database – 2011 (RTIO-HSE-0129506)	Minister for DSEWPac	Construction	Prior to the commencement of dredging activities	Compliant
CMP Table 3-4.4	Dredging and spoil disposal mitigation and management measures	Where cetaceans are sighted in the monitoring zone, dredging/dumping activities will not commence in the 300 m monitoring zone until 20 minutes after the last cetacean is observed to leave the monitoring zone. Alternatively the dredge is to move to another area of the dredge / disposal site to maintain a minimum distance of 300 m between the vessel and any cetacean	Provide training to nominated crew from a qualified person in accordance with 3-2.1 Do not re-commence dredging/dumping activities until 20 minutes after last cetacean is observed to leave 300 m monitoring zone	Trained marine fauna observers are stationed on dredge vessels equipped with binoculars (RTIO-HSE-0123380) Refer to the CLB General MFO Records Database – 2011 (RTIO-HSE-0129506)	Minister for DSEWPac	Construction	In the event that a cetacean is sighted in the monitoring zone prior to the commencement of dredging and spoil disposal activities	Compliant

Audit Code	Subject	Action	How	Evidence	Satisfy	Phase	When	Status
			Maintain a log of cetacean observations and activities					
CMP Table 3-4.5	Dredging and spoil disposal mitigation and management measures	Should sensitive marine fauna (Humpback whales or other cetaceans) be observed or enter into the 300 m monitoring zone, dredging and / or spoil disposal activities will cease until such time as the cetacean has, or cetaceans have, moved outside the 300 m monitoring zone or has not been sighted for 20 minutes	<p>Provide training to nominated crew from a qualified person in accordance with 3-2.1</p> <p>Cease dredging/dumping activities until 20 minutes after last cetacean is observed to leave 300 m monitoring zone</p> <p>Maintain a log of cetacean observations and activities</p>	<p>Marine mammal training has been carried out by Todd Jess, an accredited trainer (RTIO-HSE-0123380)</p> <p>Refer to the CLB EMP Training presentations (RTIO-HSE-0159769), CLB Specialised Environmental Training Presentations (RTIO-HSE-0159770), CLB Environmental Training Records (RTIO-HSE-0159772) and the CLB Environmental Induction (RTIO-HSE-0159773)</p>	Minister for DSEWPac	Construction	In the event that a cetacean is sighted in the monitoring zone during dredging and spoil disposal activities	Compliant
CMP Table 3-4.6	Dredging and spoil disposal mitigation and management measures	A lookout will be maintained for cetaceans while any dredging or construction vessels travel within the Port B development area. In the event that a cetacean is sighted, vessels speeds	Provide training to nominated crew from a qualified person in accordance with 3-2.1	Trained marine fauna observers are stationed on dredge vessels equipped with binoculars (RTIO-HSE-0123380)	Minister for DSEWPac	Construction	During dredging	Compliant

Audit Code	Subject	Action	How	Evidence	Satisfy	Phase	When	Status
		and direction will be adjusted to avoid collision with the observed individual (within the safety constraints of the vessel)	Maintain a log of cetacean observations and activities	Refer to the CLB General MFO Records Database – 2011 (RTIO-HSE-0129506)				
CMP Table 3-4.7	Dredging and spoil disposal mitigation and management measures	All port related vessels will be made aware of the locations of the dredges and associated equipment such as floating or submerged pipelines, cables and support vessels. Information will be exchanged between involved parties with regards to planned shipping movements and dredging activities. Should marine mammals be sighted within 300 m of dredging and /or spoil disposal activities, all construction vessels operating as a component of the Port B development will be notified	Notify all port related vessels of dredgers and associated equipment, as per 3-2.5	<p>The project's Notice to Mariners is available on the Western Australian Department of Transport website and is linked here:</p> <p>http://www.transport.wa.gov.au/mediaFiles/mar_Not2010143_CapeLambertDredgingSoilGround.pdf</p> <p>http://www.transport.wa.gov.au/mediaFiles/Not2012_26_DredgingCapeLambertPortWalcottWestPilbara.pdf</p> <p>Port related vessels are informed via radio of the locations of dredges and associated equipment (RTIO-HSE-0123380).</p>	Minister for DSEWPaC	Construction	During dredging	Compliant

Audit Code	Subject	Action	How	Evidence	Satisfy	Phase	When	Status
				<p>All dredging activities / locations are conducted based on the project schedule. This schedule is available to the entire project team.</p> <p>Trained marine fauna observers are stationed on dredge vessels equipped with binoculars (RTIO-HSE-0123380)</p> <p>Refer to the CLB General MFO Records Database – 2011 (RTIO-HSE-0129506)</p>				
CMP Table 3-4.8	Dredging and spoil disposal mitigation and management measures – Reporting	Pilbara Iron will record and report (i.e. email / fax statement), all marine mammal (including dolphin) injury and mortality incidents to the DEC and DSEWPaC within 24 hours. Details will include the time and nature of each incident and the species involved, if known	Record and report all marine mammal injuries to the DEC and DSEWPaC as per 3-2.6	No injuries or mortalities recorded during this reporting period	Minister for DSEWPaC and CEO of the OEPA	Construction	Within 24 hours of the injury or mortality	Not applicable.
CMP Table 3-4.9	Dredging and spoil disposal mitigation and management	All sightings of marine mammals (except dolphins) will be recorded	Record all cetacean sightings (excluding dolphins)	Refer to the CLB General MFO Records Database – 2011 (RTIO-HSE-	Minister for DSEWPaC	Construction	When sightings occur	Compliant

Audit Code	Subject	Action	How	Evidence	Satisfy	Phase	When	Status
	measures – Reporting			0129506)				
CMP Table 3-5.1	Drill and blast mitigation and management measures	<p>In the event that drilling and blasting is required, a BMP/D&BMP will be produced which incorporated management and monitoring for Commonwealth listed threatened and migratory species (including cetaceans). This plan will include:</p> <ul style="list-style-type: none"> • A description of the drill and blast methodology, developed according to detailed site characteristics not available to date (i.e. area and depth to be blasted, rock hardness and proximity of other infrastructure) and environmental protection requirements • An assessment of the amount of drilling and blasting required including geographical extent • Nomination of the likely blast pressures and potential environmental impacts of these pressures 	<p>Prepare a BMP/D&BMP in accordance with 3-5.1.</p> <p>Drilling and Blasting not required as part of the current dredge methodology</p>	No drilling and blasting occurred during this reporting period	Minister for DSEWPaC and CEO of the OEPA	Construction	<p>Submittal of draft plan 2 months prior to underwater blasting.</p> <p>Finalisation of plan prior to underwater blasting.</p>	<p>Not applicable.</p> <p>No marine drilling and blasting occurred during this reporting period.</p>

Audit Code	Subject	Action	How	Evidence	Satisfy	Phase	When	Status
		<ul style="list-style-type: none"> • Management actions and procedures to minimise environmental impacts including the disposal of drilling muds and consideration of ecological windows between seasonally sensitive periods for marine wildlife • Monitoring for the presence of listed threatened and migratory species, including exclusion zones, prior to and during blasting • Commitments that any blasting activities will not be undertaken at night or during turtle nesting or hatchling seasons • Post blast inspection for injured fauna including management and reporting of injured fauna • A description of how dead and injured wildlife are to be managed • Details of responsible parties for each action described in the BMP/D&BMP, including 						

Audit Code	Subject	Action	How	Evidence	Satisfy	Phase	When	Status
		reporting requirements and timeframes • Stakeholder communication						