Draft: Environmental Impact Statement

Chapter C4 Maritime Operations Management Plan

C4.1 Introduction 2
C4.2 Purpose 2
C4.3 Scope 3
C4.4 Terms of Reference 3
C4.5 Legislation and Policy 3
  C4.5.1 Commonwealth Legislation 3
  C4.5.2 Queensland State Legislation 4
  C4.5.3 State Policies and Plans 4
  C4.5.4 Port Procedures 5
  C4.5.5 MSQ Guidelines for Major Development Proposals 5
C4.6 Other Regulations, Codes and Guidelines 5
C4.7 Environmental Management Framework 9
  C4.7.1 Environmental Management System 9
  C4.7.2 Environmental Policy 9
C4.8 Maritime Operations Management Plan Structure 10
  C4.8.1 Management Issues 10
  C4.8.2 Environmental Management Strategies 11
C4.9 Vessel Traffic Management Plan 11
  C4.9.1 Vessel Management in Navigation Areas 12
  C4.9.2 Marine Operations Management Systems 14
  C4.9.3 Marine Operations Resources (Physical and Human Resources) 15
  C4.9.4 Emergency Management 16
  C4.9.5 Vessel Strike 17
C4.10 Aids to Navigation Management Plan 17
C4.11 Aids to Navigation 18
C4.12 Ship-Sourced Pollution Prevention Management Plan 19
  C4.12.1 Release of Ballast Water and Introduction of Exotic Marine Organism 20
  C4.12.2 Release of Shipping Waste 22
  C4.12.3 Spills and Ship Sourced Pollution 25
C4.13 Action Program 28
  C4.13.1 Continuous Improvement 28
  C4.13.2 Auditing 28
  C4.13.3 Monitoring 28
  C4.13.4 Records 28
  C4.13.5 Responsibilities 29
  C4.13.6 Regulatory Bodies 29
  C4.13.7 Staff Training 29
C4.14 Enquiries and Complaints Management 30
  C4.14.1 General Enquiries and Information 30
C4.1 Introduction
The Port of Cairns is the principal port in Far North Queensland, with the main industries being sugar, agriculture and tourism. Imports include refined fuel products, fertilizers and general cargo and exports raw sugar, molasses and general cargo. Regular shipping services have been established to service the small communities in the Gulf of Carpentaria and the Torres Strait as well as the mining communities in Papua New Guinea and Indonesia.

The Port of Cairns is a regular port of call for cruise ships and is a base for Royal Australian Navy patrol boats and a large fishing fleet. There is a large marina catering for vessels up to super yachts and a significant fleet of tourist vessels that provide daily tours to the Great Barrier Reef.

Far North Queensland Ports Corporation Limited (trading as Ports North), with support from the Queensland State Government, initiated the Cairns Shipping Development Project (henceforth known as ‘the project’) to expand cruise ship tourism opportunities by allowing larger cruise ships to enter the Port of Cairns. The project will involve dredging the inner port, outer channel and Crystal and Smith’s Creek Swing Basins to increase the channels width and depth.

A demand study carried out as part of the study has predicted that by 2026 the number of mega sized cruise ships accessing the port as a result of the improved infrastructure will be 63. This compares to the 1,994 vessel arrivals at the Port of Cairns in the 2012/13 financial year (Ports North, 2013). These were a mix of bulk trading vessels (79 arrivals), cargo and barge vessels (481 arrivals), international and domestic cruise (121 arrivals), fishing (1,171 arrivals), Australian Navy (18 arrivals) and tugs and slipping (124 arrivals).

Ports North, as the port authority, will be responsible for developing and managing the project. The operation of the project will be under the same management structure. Other key stakeholders that will play a role in the development of infrastructure and the management of operations are:

• Maritime Safety Queensland (MSQ), a government agency of the Department of Transport and Main Roads and the Cairns Regional Harbour Master (RHM), who are the authority responsible for navigation safety in the Port of Cairns. The RHM was consulted on 27 August 2014 to understand the requirements to be incorporated into this Marine Operations Management Plan (MOMP) with particular focus on navigational safety and emergency management.

• Royal Australian Navy.

This MOMP has been prepared for the project in accordance with the MSQ Guidelines for Major Development Proposals (DTMR, 2013).

C4.2 Purpose
Management actions for the significant activities in Port of Cairns are already in place. This document presents as an overview which make references to the existing management plans and in response to the EIS Terms of Reference (TOR) described in Section C4.4.

The purpose of this MOMP is to identify the preferred means of addressing issues associated with changes in maritime operational activities (operational shipping) as a result of the project and reduce the potential for negative impacts on the environment, vessel safety and operational efficiency. This MOMP:

• Describes Ports North’s existing management arrangements for maritime activity management, environmental performance and the reduction of potential adverse impacts

• Specifies the management actions that would be taken to achieve the performance objectives

• Identifies corrective actions to rectify any deviation from performance criteria

• Provides an action program to ensure the environmental commitments are implemented and achieved

• Provides mechanisms for complaints management, community engagement and on-going improvement.
C4.3 Scope

This MOMP only applies to the operational shipping that is under Ports North’s control. It should be noted that maintenance dredging is carried out periodically and a separate Dredge Management Plan (DMP) is implemented, therefore this MOMP is not applicable to maintenance dredging.

This MOMP falls under the Management Plans which includes:

- Construction Phase
  - Environmental Management Plan (Construction)
  - Dredge Management Plan
  - Vessel Traffic Management Plan
- Operational Phase
  - Environmental Management Plan (Operations)
  - Maritime Operations Management Plan (this document)

C4.4 Terms of Reference

This MOMP has been prepared in response to the Queensland Government’s Cairns Shipping Development Project TOR for an Environmental Impact Statement, November 2012 issued by the Coordinator General Section 4.3.3 and the Commonwealth Guidelines for an Environmental Impact Statement for the Cairns Shipping Development (Trinity Inlet) Project, In Port of Cairns and Great Barrier Reef Marine Park, Queensland, March 2013 Section 5.10.11.

This MOMP also provides the management plans required by MSQ Guidelines (TMR, 2013):

- Vessel traffic management plan
- Aids to navigation management plan
- Ship-sourced pollution prevention management plan.

These management plans are combined in this document to reduce duplication and improves the ease of implementation, thereby ultimately increasing the effectiveness of the management actions over the long term.

C4.5 Legislation and Policy

The MOMP has been developed based on the following legislation and policies at the time of writing this document.

C4.5.1 Commonwealth Legislation

The key Commonwealth legislation that has been identified as relevant to port operations (and its planning and development) of facilities (including Acts implementing relevant international conventions) include:

- Australian Maritime Safety Authority Act, 1990
- Environment Protection and Biodiversity Conservation Act, 1999
- Navigation Act, 1912
- Protection of the Sea (Prevention of Pollution from Ships) Act, 1983
- Ship Registration Act, 1981
- Quarantine Act, 1908.
A number of international conventions agreed by the Commonwealth apply to the management of shipping in Australian waters. These include:

- International Convention for the Prevention of Pollution from Ships (IMO, 2011)
- International Convention on Oil Pollution Preparedness, Response and Cooperation 1990 (IMO, 1990)
- International Convention on the Control of Harmful Anti-fouling Systems on Ships 2001 (IMO, 2001)

Commonwealth plans and guidelines also to be considered include:

- North-East Shipping Management Plan (AMSA, 2014)
- Australian Marine Pest Monitoring Guidelines Version 2.0 2010 (DAFF, 2010a)
- Australian Marine Pest Monitoring Manual Version 2.0 (DAFF, 2010b)
- National Plan to Combat Pollution of the Sea by Oil and Other Hazardous and Noxious Substances (AMSA, 2010a)

**C4.5.2 Queensland State Legislation**

The following Queensland legislation has been identified as directly relevant to port operations and development of associated facilities:

- **Coastal Protection and Management Act, 1995**
- **Environmental Protection Act, 1994**
- **Fisheries Act, 1994 and Regulations**
- **Maritime Safety Queensland Act, 2002 and Regulation 2002**
- **Marine Parks Act, 2004 and Marine Parks (Great Barrier Reef) Zoning Plan**
- **Nature Conservation Act, 1992**
- **Sustainable Planning Act, 2009 and Regulations 2009**
- **Transport Operations (Marine Safety) Act, 1994 and Regulations 2004**
- **Transport Operations (Marine Pollution) Act, 1995 and Regulations 2008**
- **Transport Infrastructure Act, 1994**
- **Work Health and Safety Act, 2011.**

**C4.5.3 State Policies and Plans**

The following Queensland policies and plans are relevant to the construction and operation and have been considered in the development of this MOMP:

- Environmental Protection Policies
C4.5.4 Port Procedures

Procedures for the safe passage and handling of vessel traffic at the port are documented in procedures published by MSQ. For the Port of Cairns, the port procedures are documented in the Port Procedures and Information for Shipping Port of Cairns, January 2014 (http://www.msq.qld.gov.au/Shipping/Port-procedures/Port-procedures-cairns.aspx).

The Transport Operations (Marine Safety) Act 1994 enables the RHM to give general directions to ship owners, ship masters, ships, other persons or matters for purposes of ensuring the safety, effectiveness and efficiency of the Queensland maritime industry.

C4.5.5 MSQ Guidelines for Major Development Proposals

MSQ has developed guidelines for major development proposals, in the form of management plans for vessel traffic, aids to navigation and ship-sourced pollution prevention. These guidelines have been adopted in the preparation of this MOMP.

C4.6 Other Regulations, Codes and Guidelines

The following are also applicable to the vessel operations:

- AS3846-2005 Handling and transport of dangerous cargoes in port areas (Standards Australia, 2005a)
- Extreme Weather Event Contingency Plan – Cairns (DTMR, November 2013)
- First-strike Oil Spill Response Plan – Port of Cairns (A supplement to the Queensland Coastal Contingency Action Plan) (DTMR, 2011a)
- International Association of Marine Aids to Navigation and Lighthouse Authorities guidelines (IALA-AISM, 2011)
- International Maritime Organisation (IMO) regulations
- International Maritime Dangerous Goods Code
- International Ship and Port Facility Security Code
- International Convention for the Prevention of Pollution from Ships (MARPOL)
- PIANC guidelines for navigation.
- Site Location

The Port of Cairns is situated on the western bank of Trinity Inlet, a mangrove-lined estuary adjacent to the city of Cairns, Queensland. The port lies on the eastern border of the Cairns CBD. The land immediately surrounding the port is a mix of industrial and commercial uses. There are a small number of residential apartments and short-term accommodation options in close proximity to the Cairns Cruise Liner Terminal (CCLT). There are also a number of people who live aboard boats moored in the inlet. East Trinity, an undeveloped environmental reserve, lies opposite the port on the eastern side of Trinity Inlet and the fringing mangroves and distant hill slopes provide a green backdrop to the city of Cairns. The current Port of Cairns navigational channel extends into Trinity Bay, which forms part of the Coral Sea. Refer to Figure C4.6a which shows the project locality plan. Figure C4.6b shows Cairns region vessel traffic data for the year 2013. Figure C4.6c shows Cairns Port Limit and Pilotage Areas.
Figure C4.6b Cairns Port Vessel Transit Data (source AMSA)
Figure C4.6c Port Limit and Pilotage Areas (source MSQ)
C4.7 Environmental Management Framework

C4.7.1 Environmental Management System

Ports North operates under an Environmental Management System (EMS) that is consistent with the international standard ISO 14001. This system aligns with other business processes so that management addresses all risks, including safety, business and environment in a consistent and comprehensive manner. Ports North’s EMS enables identification and prioritisation of activities undertaken by Ports North that could impact on the environment, such as dredging, project development and management of contractors and then enables Ports North to assess these for potential risk and implement management controls or actions to prevent or minimise impacts. A register of risks and treatments plans is maintained for all significant risks. This information is reviewed and reported to senior management regularly. A key element of the EMS implementation is maintaining legal compliance and continuous improvement in environmental performance by conducting environmental audits and inspections of all operations, contractors, major development and maintenance projects so that risks associated with these are identified and so that verification of relevant permits, licences and project objectives are being achieved.

C4.7.2 Environmental Policy

The environmental policy of Ports North applies to Ports North lands including common user areas. It is displayed at prominent areas in the workplace of Ports North employees and on Ports North’s website. It is communicated to Ports North’s employees during induction and training. The Environmental Policy is reviewed regularly.

Ports North’s personnel, contractors and visitors must comply with the intent of the policy. The Environmental Policy states:

Ports North is responsible for nine port locations including trading ports of Cairns, Mouluyan, Cape Flattery, Karumba and Skardon River), community ports (Thursday Island and Quintell Beach) and non-trading ports (Cooktown and Burketown).

Ports North strives to operate a viable business that considers financial, environmental and social impacts by identifying and implementing initiatives that promote excellence in environmental management at these ports.

To demonstrate environmental leadership, Ports North will:

- Implement and maintain an environmental management system to meet the standard set by AS/NZS ISO14001:2004, as a tool for continual improvement in environmental performance;
- Comply with relevant environmental laws, regulations, policies, procedures and standards;
- Identify, assess and minimise environmental risk and impacts of port activities;
- Integrate environmental considerations and principles of sustainable development into management processes and decision making;
- Maintain emergency, fire protection, security systems and infrastructure to protect the environment;
- Strive to use resources efficiently, minimise waste and prevent pollution;
- Apply sufficient and appropriate people and resources to achieve this Environmental Policy;
- Define, measure and report regularly against objectives and targets and review the effectiveness of performance;
- Communicate this policy to staff and stakeholders to build collaborative relationships to promote superior environmental outcomes.

The Chief Executive Officer and senior management are responsible for providing the leadership to support effective implementation of this policy and for ensuring all Ports North’s staff, contractors and those engaged by the organisation are required to comply with it.

This policy will be regularly reviewed following legislative or organisational changes, or at a minimum of every three years, to ensure it reflects the nature and potential impacts of port activities and services.
## C4.8 Maritime Operations Management Plan Structure

### C4.8.1 Management Issues

The following items have been identified in the EIS TOR (Queensland and Commonwealth Guidelines) and MSQ Guidelines for Major Development Proposals (DTMR May 2013). These items, in **Table C4.8.1a**, provide a summary of the components of the MOMP. The plan structure is based on the MSQ guidelines.

**Table C4.8.1a MOMP Components**

<table>
<thead>
<tr>
<th>MOMP Section Reference</th>
<th>Management Issues</th>
<th>Scope</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Vessel Traffic Management Plan</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C4.9.1</td>
<td>Vessel Management in Navigation Areas</td>
<td>Design, dredging and maintenance of navigation channel.</td>
</tr>
<tr>
<td>C4.9.3</td>
<td>Marine Operations Resources (Physical and Human Resources)</td>
<td>Resources planning to manage and undertake marine operations.</td>
</tr>
<tr>
<td>C4.9.5C4.9.5</td>
<td>Vessel StrikeVessel Strike</td>
<td>Reduce the potential for contact between marine fauna and ships.</td>
</tr>
<tr>
<td><strong>Aids to Navigation Management Plan</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C4.11</td>
<td>Aids to Navigation</td>
<td>Design, installation and maintenance of navigation aids.</td>
</tr>
<tr>
<td><strong>Ship-Sourced Pollution Prevention Management Plan</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C4.12.3</td>
<td>Release of Shipping Waste</td>
<td>Management of the transport of waste from ship to shore and prevention of illegal dumping and accidental release.</td>
</tr>
<tr>
<td>C4.12.6</td>
<td>Spills and Ship Sourced Pollution</td>
<td>Measures to prevent spills and actions required in the event of spills. Preventing any release of substances from shipping.</td>
</tr>
</tbody>
</table>
C4.8.2 Environmental Management Strategies

For each element of the MOMP, an environmental management strategy and actions have been developed to address potential risks that may arise. Each element has stated environmental objectives, performance criteria, management actions and monitoring and corrective measures. The structure is outlined in Table C4.8.2a.

Table C4.8.2a Environmental Management Strategy Components

<table>
<thead>
<tr>
<th>Environmental Management Strategy Component</th>
<th>Description of Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>Element</td>
<td>The aspects of operational shipping requiring management consideration.</td>
</tr>
<tr>
<td>Potential impacts</td>
<td>The potential impacts of the element without management.</td>
</tr>
<tr>
<td>Performance objective</td>
<td>The target or aim to be achieved.</td>
</tr>
<tr>
<td>Performance indicators</td>
<td>The measureable criteria (outcomes) against the implementation of the actions.</td>
</tr>
<tr>
<td>Monitoring and reporting</td>
<td>The required monitoring program to measure actual performance and the reporting of it.</td>
</tr>
<tr>
<td>Management actions</td>
<td>The strategies or tasks that is required to achieve the performance criteria.</td>
</tr>
<tr>
<td>Responsibility</td>
<td>The entity that is responsible to implement each management action.</td>
</tr>
<tr>
<td>Timing</td>
<td>The frequency at which management actions need to be implemented.</td>
</tr>
<tr>
<td>Corrective action</td>
<td>The action to be implemented if a performance requirement is not met.</td>
</tr>
</tbody>
</table>

C4.9 Vessel Traffic Management Plan

This section of the MOMP identifies specific management plans relating to vessel navigation as a result of the project. In most cases, the management actions will need to be integrated into wider site-based management plans and any conditions of approvals granted for the project.

There is no change to the anchorage procedures; therefore this MOMP does not include vessel anchorage.
## C4.9.1 Vessel Management in Navigation Areas

<table>
<thead>
<tr>
<th>Element</th>
<th>Vessel management in navigation areas</th>
</tr>
</thead>
</table>
| **Potential impacts**           | • Potential grounding of vessel.  
• Potential economic losses due to shipping channel closure as a result of vessel grounding.  
• Potential marine pollution as a result of vessel grounding.  
| **Performance objective**       | • Design and development of navigation areas for the project and shipping operations are to be in accordance with approved design, standards and port procedures.  
• Shipping activities in accordance with port procedures and North-East Shipping Management Plan.  
| **Performance indicators**      | • Design of navigation channel and turning basins to achieve safe vessel navigation.  
• Dredging works to achieve minimum navigation design depth.  
• Declared depths available at all times and preserved by maintenance dredging.  
• Safe vessel arrival and departure.  
• Dissemination of information of updated navigation areas.  
| **Monitoring and reporting**    | • Design to be undertaken in accordance with MSQ and RHM design review, input and quality control procedures.  
• Confirmation of dredging works complies with the approved design.  
• Vessel monitoring through VTS system and pilotage procedures.  
| **Management actions**          | **Responsibility**  
**Confirmation of design vessels for detail design process.**  
Ports North.  
**Prior to detail design process.**  
Review business case.  
**Detail design of navigation areas in consultation with RHM and with navigation simulation.**  
Ports North in consultation with RHM.  
**Detail design to be undertaken and approved by the RHM prior to dredging works.**  
Review navigation design procedures, verification and risk assessment.  
**Review minimum ship underkeel clearance (UKC) requirements.**  
Ports North in consultation with RHM.  
**During detail design and approved by the RHM prior to dredging works.**  
Review minimum UKC for similar ships in other ports.  
**VTS system and pilotage procedures in place and implemented.**  
RHM, MSQ.  
**Prior to commencement of navigation through the outer channel and prior to vessel departure from berth.**  
Review and update VTS system and pilotage procedures, along with port procedures.  
**Undertake capital dredging works.**  
Ports North in consultation with RHM.  
**To suit implementation program for capital dredging.**  
Review navigation areas design and depth requirements for design vessels.  

<table>
<thead>
<tr>
<th>Undertake maintenance dredging works.</th>
<th>Ports North in consultation with RHM.</th>
<th>Ongoing.</th>
<th>Review the frequency and extent of maintenance dredging program. Review maintenance dredging DMP.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrographic survey works in accordance with MSQ Standards for Hydrographic Surveys in Queensland Waters.</td>
<td>Ports North.</td>
<td>For every hydrographic survey works.</td>
<td>Undertake independent hydrographic survey.</td>
</tr>
<tr>
<td>Update marine charts.</td>
<td>The hydrographic surveyor to inform the Australian Hydrographic Service of new information.</td>
<td>At completion of capital dredging works.</td>
<td>Issue notice to mariners as a temporary measure advising new navigation areas.</td>
</tr>
<tr>
<td>Regular monitoring of navigation areas by hydrographic survey.</td>
<td>Ports North in consultation with RHM.</td>
<td>At intervals according to design, following extreme weather events and following dredging works.</td>
<td>Increase frequency and additional surveys following extreme weather events.</td>
</tr>
</tbody>
</table>
## C4.9.2 Marine Operations Management Systems

<table>
<thead>
<tr>
<th>Element</th>
<th>Marine operations management systems</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Potential impacts</strong></td>
<td>• Collision, grounding, congestion or delays to shipping traffic as a result of uncoordinated shipping activities.</td>
</tr>
<tr>
<td><strong>Performance objective</strong></td>
<td>• Adequate marine operations management system to provide safe and efficient navigation operations.</td>
</tr>
</tbody>
</table>
| **Performance indicators** | • Prevention of vessel incidents from operational marine traffic.  
• Prevention of vessel near misses from operational marine traffic.  
• Prevention of delays for vessels arriving or departing. |
| **Monitoring and reporting** | • Reporting of incidents, near misses and delays.  
• Regular monitoring and periodic review of records to determine efficiency of systems. |

### Management actions

<table>
<thead>
<tr>
<th>Management actions</th>
<th>Responsibility</th>
<th>Timing</th>
<th>Corrective actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Review of marine operation management systems to ensure that systems and resources are appropriate for the growth in shipping traffic.</td>
<td>Ports North in conjunction with MSQ.</td>
<td>Prior to development of the project and annually thereafter.</td>
<td>Critical review of marine management systems for adequacy.</td>
</tr>
<tr>
<td>Review the adequacy of VTS systems and resources for increased shipping traffic.</td>
<td>MSQ and RHM.</td>
<td>Prior to development of the project and annually thereafter.</td>
<td></td>
</tr>
<tr>
<td>Provide relevant and updated information to the RHM as inputs to the ongoing review and update of the Port Procedures and Information for Shipping for Port of Cairns.</td>
<td>MSQ</td>
<td>Ongoing.</td>
<td>RHM’s approval prior to any updates to Ports North’s operations or procedures.</td>
</tr>
<tr>
<td>Review requirements for real time information systems pertaining to wind and tides and the dissemination of this information to ships.</td>
<td>Ports North and MSQ.</td>
<td>Ongoing.</td>
<td>MSQ to undertake audit of available technology and information resources available to improve real-time monitoring and dissemination of the info.</td>
</tr>
<tr>
<td>Review future channel operation procedures when warranted by increased ship movements.</td>
<td>Ports North and MSQ.</td>
<td>When frequent delay trends observed.</td>
<td>RHM and MSQ to verify predicted shipping levels and assess delay reports to assist in updating of operation procedures.</td>
</tr>
<tr>
<td>Review the requirements for using tugs to assist manoeuvring of vessels.</td>
<td>Ports North and RHM.</td>
<td>Ongoing.</td>
<td>RHM to review and update port procedures.</td>
</tr>
<tr>
<td>Review of pilotage procedures and pilot exemptions.</td>
<td>RHM.</td>
<td>Ongoing.</td>
<td>RHM to review and update pilotage procedures.</td>
</tr>
</tbody>
</table>
### C4.9.3 Marine Operations Resources (Physical and Human Resources)

<table>
<thead>
<tr>
<th>Element</th>
<th>Marine operations resources (Physical and human resources)</th>
</tr>
</thead>
</table>
| **Potential impacts** | • Inefficient port operations due to ship queues causing delays  
                          • Potential for environmental impact from ship pollution if delayed in responding with appropriate measures  
                          • Potential exasperation of emergency situation  
                          • Delays for processing of passenger immigration clearance  
                          • Delays in responding to border protection matters. |
| **Performance objective** | • Plan resource levels for marine services to provide safe and efficient operations in the port. |
| **Performance indicators** | • Adequate resources for marine services available to support safe vessel navigation  
                                • Achieve or exceed marine operations service level for vessel operations  
                                • Adequate emergency equipment to be available for likely emergency situations. |
| **Monitoring and reporting** | • Any damage or unavailable resources to be reported immediately to Ports North  
                                 • Resources to be monitored for maintenance and upgrades as required  
                                 • Monitoring and management of the adequacy of human resources. |
| **Management actions** | **Responsibility** | **Timing** | **Corrective actions** |
| Monitoring of shipping requirements and forward planning of resource requirements for:  
  • Staff numbers of Ports North and MSQ to manage marine operations  
  • Staff numbers for Customs, Immigration and Quarantine operations  
  • MSQ VTS Centre  
  • Number of pilots  
  • Number of pilot launches  
  • Tug fleet number and capacity  
  • Navigation aids  
  • Staff numbers for wharf operations. | Ports North in conjunction with MSQ, RHM and Department of Immigration and Border Protection. | Annually. | Independent assessment of predicted shipping requirements.  
  Consultation with vessel suppliers to understand the constraints and plan for improvements.  
  Consultation with shipping companies/operators to understand service level.  
  Consultation with Border Protection agencies as appropriate.  
  Consider use of technology and/or process for reduction in staff numbers. |
| Monitoring of shipping requirements and forward planning of resource requirements for:  
  • Bunkering  
  • Ship supplies. | Operator. | Annually. | Consultation with Ports North and shipping companies to understand future shipping requirements. |
### C4.9.4 Emergency Management

<table>
<thead>
<tr>
<th>Element</th>
<th>Emergency management</th>
</tr>
</thead>
</table>
| **Potential impacts**          |  • Potential exacerbation of emergency situations due to inadequate or inappropriate response and management  
                                  • Potential further environmental impact from ship pollution if inappropriate emergency management plan in place. |
| **Performance objective**      |  • Assess, prevent and manage emergencies including post emergencies that may occur.  |
| **Performance indicators**     |  • Prevention of emergency situations through proactive measures  
                                  • Early detection of potential or actual emergency situations through effective processes, monitoring and communication  
                                  • Quick and effective response to emergency situations and recovery from events  
                                  • Availability of First-Strike Response Equipment  
                                  • Adhere to the Emergency Management Plan at all times. |
| **Monitoring and reporting**   |  • Emergencies are to be reported and monitored in accordance with existing Ports North emergency management plan requirements which require escalating levels of agency and community reporting depending on circumstances. |

<table>
<thead>
<tr>
<th>Management actions</th>
<th>Responsibility</th>
<th>Timing</th>
<th>Corrective actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ongoing review of emergency management plan, resource levels and equipment with the development of the project increased shipping traffic, operational vessels and equipment.</td>
<td>Ports North.</td>
<td>Ongoing.</td>
<td>Plans and procedures to be reviewed more frequently.</td>
</tr>
<tr>
<td>The emergency management plans are to ensure that there are appropriate prevention, detection, response and recovery measures to protect safety and the environment.</td>
<td>Ports North.</td>
<td>Prior to operational of the project.</td>
<td>Risk workshops to review emergency management plans.</td>
</tr>
</tbody>
</table>
| Undertake review/update of Emergency Plans for:  
  • Ports North Emergency Response Plan  
  • Extreme Weather Event Contingency Plan – Cairns First-Strike Oil Spill Response Plan – Port of Cairns. | Ports North or MSQ. | Prior to operational of the project. | Review response plans following emergencies or increase periodic review of plans. |
### C4.9.5 Vessel Strike

<table>
<thead>
<tr>
<th>Element</th>
<th>Potential Impacts</th>
<th>Performance Objective</th>
<th>Performance Indicators</th>
<th>Monitoring and Reporting</th>
<th>Management Actions</th>
<th>Corrective Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vessel Strike</td>
<td>Marine wildlife mortality and or injury.</td>
<td>Vessel strike to marine fauna avoided or minimised to the greatest practical extent.</td>
<td>Vessel strike with marine fauna as a result of vessel movements is avoided or minimised.</td>
<td>Ensure any fauna injury or mortality during vessel movement or dredging is immediately reported to Ports North.</td>
<td>Port users are to comply with maritime signage and regulations, including use of designated shipping channels and speed limits.</td>
<td>Assist relevant agencies to investigate incidents. Review control measures to ensure effectiveness.</td>
</tr>
</tbody>
</table>

### Element

**Availability of and easy access to the Emergency Management Plan.**

**Ports North and MSQ.**

**Ongoing.**

Review the availability and access to the Emergency Management Plan. Include in staff inductions and toolbox meetings.

**Review minimum requirements for First-Strike response equipment.**

MSQ.

**Ongoing.**

If equipment is found to be inadequate or inappropriate in an emergency, undertake a multi-review to identify equipment gaps to be filled as a priority.

**Review the availability and access to the Emergency Management Plan.**

Ports North and MSQ.

**Ongoing.**

Review the availability and access to the Emergency Management Plan. Include in staff inductions and toolbox meetings.

### C4.10 Aids to Navigation Management Plan

This section of the MOMP identifies specific navigational management strategies and actions related to vessel movement’s resulting from the project.

The project will require changes to navigational aids. In most cases, management actions will need to be integrated in broader site-based management plans and documentation to incorporate any conditions of approval granted for the project under relevant legislation.

Ports North will ensure these requirements are addressed and for the activities to be carried out within Ports North controlled areas, consistently with any existing procedures, guidelines or permits.
### C4.11 Aids to Navigation

<table>
<thead>
<tr>
<th>Element</th>
<th>Potential impacts</th>
<th>Performance objective</th>
<th>Performance indicators</th>
<th>Monitoring and reporting</th>
<th>Management actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aids to navigation</td>
<td>• Potential ship collisions with potential human safety, damage to property and environmental consequences.</td>
<td>• Safe navigation for shipping for docking, including recreational, tourist and commercial fishing.</td>
<td>• Any navigational aid that is damaged, broken or not operating as intended.</td>
<td>• Navigation aids to be regularly monitored and maintained to ensure they are fully functional as intended.</td>
<td>Design of navigation aids to be undertaken in consultation with RHM and in accordance with IALA Guidelines.</td>
</tr>
</tbody>
</table>

#### Performance indicators

- Safe navigation for shipping for docking, including recreational, tourist and commercial fishing.

#### Performance objectives

- Design of navigation aids to be undertaken in consultation with RHM and in accordance with IALA Guidelines.

#### Performance indicators

- Safe navigation for shipping for docking, including recreational, tourist and commercial fishing.

#### Monitoring and reporting

- Design review/verification.

#### Management actions

- Design of navigation aids to be undertaken in consultation with RHM and in accordance with IALA Guidelines.

#### Corrective actions

- Design of navigation aids to be undertaken in consultation with RHM and in accordance with IALA Guidelines.
C4.12 Ship-Sourced Pollution Prevention Management Plan

This section of the MOMP identifies specific environmental management measures including strategies, timing and actions related to the shipping activities of the project which have potential impacts on the marine environment. In most cases, management actions need to be integrated in the broader site-based management plans, documentation and any conditions of approval imposed on the project.

Ports North will address and meet these requirements for the activities to be carried out within Ports North controlled areas, consistent with any existing procedures, guidelines or permits.
C4.12.1 Release of Ballast Water and Introduction of Exotic Marine Organism

<table>
<thead>
<tr>
<th>Element</th>
<th>Release of ballast water and introduction of exotic marine organism</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Potential impacts</strong></td>
<td>• Harm to marine ecosystems</td>
</tr>
<tr>
<td></td>
<td>• Incursion of marine pests</td>
</tr>
<tr>
<td></td>
<td>• Harm to economic activities (port operations, commercial fishing, tourism).</td>
</tr>
<tr>
<td><strong>Performance objective</strong></td>
<td>• To reduce the potential for prohibited releases of ballast water to occur</td>
</tr>
<tr>
<td></td>
<td>• To reduce the potential for environmental harm to marine environments as a result of release from shipping, through implementation of appropriate contingency measures.</td>
</tr>
<tr>
<td><strong>Performance indicators</strong></td>
<td>• No incidents of environmental harm involving ballast water releases associated with commercial ships using the Port of Cairns</td>
</tr>
<tr>
<td></td>
<td>• Ballast summary sheets to be provided to Maritime National Coordination Centre for relevant shipping.</td>
</tr>
<tr>
<td><strong>Monitoring and reporting</strong></td>
<td>• Ballast water movements must be recorded in ship manuals for verification consistent with DAFF/AMSA requirements</td>
</tr>
<tr>
<td></td>
<td>• Identification of exotic or foreign species in port waters will be recorded in Ports North’s database and advise given to DAFF/Biosecurity Queensland accordingly</td>
</tr>
<tr>
<td></td>
<td>• Ports North to continue to facilitate access by agency staff (Biosecurity Qld, Department of Agriculture, etc.) to enable such staff to conduct their inspections and monitoring for the presence of marine and terrestrial pests as part of routine border protection surveillance</td>
</tr>
<tr>
<td></td>
<td>• Ports North to maintain existing surveillance for potential new incursions through its existing marine pest settlement plate program, and the annual SAP process as required under NAGD or other such programs as they come into effect under agency requirements.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Management actions</th>
<th>Responsibility</th>
<th>Timing</th>
<th>Corrective actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>International vessels are to comply with DAFF reporting requirements for ballast water exchange/discharge and biofouling.</td>
<td>Ship owner/operator, DAFF and Biosecurity Queensland.</td>
<td>Prior to entry into port.</td>
<td>DAFF to recommend necessary corrective or disciplinary actions as required.</td>
</tr>
</tbody>
</table>
### Full Ballast Water Exchange

Prior to entering Australian territorial waters, no exchanges in the GBRMP. International ships cannot exchange ballast water until in international waters (12 nautical miles from the edge of the GBRMP).

- Tank-to-tank shipboard ballast water exchanges to occur outside Australian territorial waters.

- Sediment discharges to occur outside Australian territorial waters.

- Only permanent vessel pumps used for ballast tank stripping.

- Ballast Water Management Plans to be carried by vessels.

- AMSA carry out audits of ballast tanks to confirm that the ships have complied with these conditions.

- IMO rules are to be implemented: http://www.imo.org/Pages/home.asp

- Transfer is not allowed in Australian waters. No exchanges are permitted in the GBRMP. Tank transfers are allowed at the maximum distance possible from land.

- If ship does not have pumps capable of stripping ballast, they will be unable to dump ballast. No portable pumps can be used due to potential contamination.

- Sedimentary material from ballast tanks may be landed as quarantine waste in some Australian ports, or can be dumped back into the sea if deep enough.

- Ship owner/operator to ensure that no sediment is discharged in Australian waters.

- If ship does not have pumps capable of stripping ballast, they will be unable to dump ballast. No portable pumps can be used due to potential contamination.

- Ship owner/operator to ensure vessels carry Ballast Water Management Plans.

- Ship owner/operator to ensure vessels carry Ballast Water Management Plans.

- Australian Ballast Water Management Requirements are enforceable under the Quarantine Act 1908 (replaceable by the Biosecurity Bill 2014).
Note the following:

1. The Australian Government plans to replace the Quarantine Act 1908 with the Biosecurity Bill 2014. The Department of Agriculture, Fisheries and Forestry (DAFF) is the lead agency and is in the process of developing this new legislation.

2. DAFF deems salt water from ports and coastal waters outside Australia’s territorial sea to be ‘high-risk’ and capable of introducing exotic marine pests into Australia. The discharge of high-risk ballast water from ships is prohibited anywhere inside Australia’s territorial sea.
   - Ballast water of the following types is deemed by DAFF to be ‘low-risk’
     - Fresh potable water sourced from a municipal water supply, with supporting documentation - relative Density 1.002 or less at 15ºC and 1000 hPa atmospheric pressure
     - Ballast water that has been exchanged at an approved location (mid-ocean) by an approved method
     - Ballast water of which at least 95 percent was taken up in mid-ocean
     - Ballast water of which at least 95 percent was taken up inside Australia’s territorial sea.

3. Vessels must retain ballast water records in the DAFF Ballast Water Management Summary Sheet and any relevant vessel logbooks and make these available to quarantine officers on request.

4. Vessels are not permitted to discharge ballast water in Australian waters until DAFF or AMSA officers have conducted ballast log verification and confirm that appropriate ballast exchanges have been conducted. Ballast verification can occur prior to arrival by submitting DAFF Ballast Water Ballast Summary Sheet to the Maritime National Coordination Centre (MNCC) for assessment 12 – 96 hours prior to arrival. Alternatively an on board verification can be conducted following vessel arrival. Vessels cannot discharge ballast water without written permission from DAFF.

### C4.12.2 Release of Shipping Waste

<table>
<thead>
<tr>
<th>Element</th>
<th>Release of shipping waste</th>
</tr>
</thead>
</table>
| **Potential impacts** | • Harm to marine life through entanglement and/or ingestion  
| | • Harm to recreation and tourism through degradation of visual amenity  
| | • Harm to human health through release of sewage  
| | • Potential marine pollution as a result of accidental discharge from vessel within port limits  
| | • Damage to environmental management reputation of Ports North. |
| **Performance objective** | To prevent or reduce the release of shipping waste into the marine environment. |
| **Performance indicators** | • Regular visual inspections of wharf areas  
| | • Any complaints or waste release incidents will be recorded in Ports North’s database in order to identify areas for actions or improvement. |
| **Monitoring and reporting** | • Waste releases into the marine environment are in accordance with relevant laws and standards  
| | • No complaints from public or government agencies regarding noticeable waste, as a result of shipping activities. |
| **Management actions** | **Responsibility** |
| **Ship owner/operator.** | **Timing** |
| Vessels are to carry Garbage Record Books. | **Corrective actions** |
| MARPOL requires ships of ≥400 gross tonnage and every ship certified to carry ≥15 persons to have a garbage record book to record disposal and incineration operations. | Ongoing.  
<p>| The date, time, position of ship, description of the garbage and the estimated amount incinerated or discharged must be logged and signed. | The Garbage Record Book must be kept for a period of two years after the date of the last entry. | Ports North and AMSA to notify ship owner/operator of obligations. |</p>
<table>
<thead>
<tr>
<th>Commercial vessels required to carry a Garbage Management Plan.</th>
<th>Ship Owner/operator. All ships of ( \geq 100 ) gross tonnage and every ship certified to carry ( \geq 15 ) persons. The Garbage Management Plan designates the person responsible for carrying out the plan and is in the working language of the crew. The Garbage Management Plan is to include written procedures for collecting, storing, processing and disposing of garbage, including the use of equipment on board.</th>
<th>Ongoing.</th>
<th>Ports North and AMSA to notify ship owner / operator of obligations. Garbage Management Plans are subject to inspection by State or Commonwealth officials.</th>
</tr>
</thead>
<tbody>
<tr>
<td>No discharge of sewage at sea unless at appropriate distance from land. No discharge of ground food waste within 3nm of the GBRMP boundary No discharge of non ground food waste or cargo residues within 12 nm of GBRMP boundary. The treatment, quality and distance requirements for different vessel types are stipulated by GBRMPA and MSQ requirements.</td>
<td>Ship owner/operator and MSQ. The regulations in Annex IV of MARPOL and the requirements of MSQ prohibit the discharge of sewage into the sea within a specified distance of the nearest land, unless they have in operation an approved sewage treatment plant.</td>
<td>Whenever discharging sewage to sea.</td>
<td>Ships seeking to discharge sewage must move to the appropriate offshore distance prior to discharge, in accordance with MARPOL, GBRMPA, QLD DEHP and MSQ requirements.</td>
</tr>
<tr>
<td>Non-Cargo Liquid Transfer Notifications to be prepared for the transfer of any non-liquid cargo.</td>
<td>Ship owner/operator. Notification to be submitted to the RHMs office.</td>
<td>Must be submitted to the RHM’s office prior to conducting non-cargo liquid transfer operations in the port. It is the responsibility of the vessel’s Master to notify Port Control and VTS prior to commencing transfer and at completion of transfers.</td>
<td>If no notification occurs then no liquid waste transfer can legally occur. If the transfer is still required, the RHM must be notified.</td>
</tr>
<tr>
<td>Activity</td>
<td>Responsible Parties</td>
<td>Duration</td>
<td>Action</td>
</tr>
<tr>
<td>-------------------------------------------------------------------------</td>
<td>----------------------------------------------------------</td>
<td>----------------</td>
<td>------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Inspections of Non-Cargo Liquid Transfer operations.</td>
<td>MSQ.</td>
<td></td>
<td>Undertake inspections for non-cargo liquid transfers.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Prior to undertaking non-cargo liquid transfers. Inspections, if required, will be arranged one hour before the start of transfer operations by MSQ contacting the ship’s Master.</td>
</tr>
<tr>
<td>No wastes to be discharged to port waters.</td>
<td>Ports North, ship operators and DAFF.</td>
<td>Ongoing.</td>
<td>Informal surveillance and reporting of nonconformities. Garbage record book checks by DAFF.</td>
</tr>
<tr>
<td>Provision of quarantine waste bins.</td>
<td>Ports North and ship operator.</td>
<td>Ongoing.</td>
<td>Review requirements for quarantine waste generation and amend provided facilities as necessary.</td>
</tr>
</tbody>
</table>
## C4.12.3 Spills and Ship Sourced Pollution

<table>
<thead>
<tr>
<th>Element</th>
<th>Spills</th>
</tr>
</thead>
</table>
| Potential impacts             | • Emergency management is covered in Section C4.9.4  
  • Effects on amenity and water quality as a result of the release of ballast water is covered in Section C4.12.1  
  • Release of shipping waste covered in Section C4.12.2  
  • Mortality or long-term impacts on sea birds, marine mammals and other marine habitats  
  • Damage to commercial fishing  
  • Impacts on tourism and other recreational activities  
  • Economic loss at both the regional and national level  
  • Impacts to public health. |

### Performance objective

| Performance objective | To eliminate or reduce spill of any substance into the marine environment from shipping traffic generated by the port  
  • Prevent impacts to the marine environment as a result of pollution from shipping activities. |

### Performance indicators

| Performance indicators | Accidental releases of any substance into the marine environment are avoided or promptly managed to avoid impacts  
  • No complaints from public or government agencies regarding noticeable spills as a result of shipping activities and port operations. |

### Monitoring and reporting

| Monitoring and reporting | Opportunistic visual inspection of Ports North’s controlled areas  
  • Any complaints or spill release incidents will be recorded in Ports North’s database immediately in order to identify potential adverse impacts  
  • Spills to be reported to environmental and public health authorities, in accordance with legislation and port notices, incident reporting requirements. |

### Management actions

<table>
<thead>
<tr>
<th>Management actions</th>
<th>Responsibility</th>
<th>Timing</th>
<th>Corrective actions</th>
</tr>
</thead>
</table>
| Review stochastic modelling during spill event which is beyond First-Strike Response Plan to aid understanding of potential spill area and trajectory to determine appropriate management responses. | Ports North, MSQ, DEHP and AMSA. | Immediately on identification of a spill event beyond First-Strike Response Plan. | Update spill response actions.  
AMS to calibrate model based on observed spill behaviours and whether to refine for future events. |
<table>
<thead>
<tr>
<th>Activity</th>
<th>Responsible Parties</th>
<th>Frequency</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>All hazardous goods in the port to be handled in accordance with the International Maritime Dangerous Goods (IMDG) Code.</td>
<td>Ports North, Ship owner/operator, tenants and transport companies.</td>
<td>Ongoing.</td>
<td>Ship owner/operator.</td>
</tr>
<tr>
<td>If handling of hazardous goods is not in accordance with the IMDG Code, handling procedures are ceased and reviewed. Handling cannot take place until a legitimate form has been obtained.</td>
<td>Ports North, Ship owner/operator, tenants and transport companies.</td>
<td>Ongoing.</td>
<td>Ship owner/operator.</td>
</tr>
<tr>
<td>A Notification of Transporting and Handling Hazardous Goods (Marine) is required for transfer operations in the port. It is the responsibility of the vessel’s Master to notify Port Control and VTS before commencing transfers.</td>
<td>Ports North to maintain a register of approved operators and conduct appropriate audits.</td>
<td>Ongoing.</td>
<td>Ports North.</td>
</tr>
<tr>
<td>Ongoing.</td>
<td>Ports North to ensure vessels are advised of bilge water management requirements.</td>
<td>Ongoing.</td>
<td>Ports North.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ports North to issue an infringement notice.</td>
<td>Ports North.</td>
</tr>
<tr>
<td>A Non-Cargo Liquid Transfer Notification is required for the transfer of non-cargo liquids.</td>
<td>Ports North and port operators/tenants to ensure licensed refuelling operators are used.</td>
<td>Ongoing.</td>
<td>Ports North and port operators/tenants.</td>
</tr>
<tr>
<td>Refuelling to be undertaken by licensed refuelling operators with appropriate emergency response equipment.</td>
<td>Ports North implements appropriate incident response procedures (First-Strike Response Plan).</td>
<td>Ongoing.</td>
<td>Ports North and tenant leases.</td>
</tr>
<tr>
<td>undertaking investigations in the event of an incident or failure to comply.</td>
<td>MSQ/DEHP.</td>
<td>Review incident response measures to ensure effectiveness.</td>
<td>Ports North.</td>
</tr>
<tr>
<td>Undertake investigations in the event of an incident.</td>
<td>MSQ/DEHP.</td>
<td>Report breaches to appropriate regulatory authorities.</td>
<td>Ports North.</td>
</tr>
<tr>
<td>Queensland Coastal Contingency Action Plan may be activated.</td>
<td>Ports North, MSQ and DEHP.</td>
<td>Ongoing.</td>
<td>Ports North, MSQ and DEHP.</td>
</tr>
<tr>
<td>Cairns Port Emergency Response Plan to be activated in the event of a major spill, as defined under that plan.</td>
<td>Ports North, MSQ and DEHP.</td>
<td>Ongoing.</td>
<td>Ports North, MSQ and DEHP.</td>
</tr>
<tr>
<td>Review and revise triggers for activation of Contingency Action Plan if current triggers are considered insufficient for changing port conditions.</td>
<td>Ports North, MSQ and DEHP.</td>
<td>Ongoing.</td>
<td>Ports North, MSQ and DEHP.</td>
</tr>
</tbody>
</table>

**Key:**
- **Ports North:** refers to the entity responsible for overseeing and managing the port's operations.
- **Ship owner/operator:** refers to the legal entity owning or operating the vessel involved in the maritime operations.
- **Tenants and transport companies:** refers to entities leasing or using port facilities or services.
- **Ports North:** includes regulatory authorities and other stakeholders responsible for port management and safety.
- **MSQ:** refers to the Marine Safety Queensland agency.
- **DEHP:** refers to the Department of Environment and Heritage Protection.
- **VTS:** refers to the Vessel Traffic Service.
- **First-Strike Response Plan:** a protocol for quick response to incidents.
- **Infringement notice:** a notice issued by regulatory authorities for non-compliance.
- **Incident response measures:** actions taken to respond to incidents.
- **Incident response procedures:** detailed steps to be followed in response to incidents.
- **Infringement notice:** a notice issued for non-compliance.
- **Infringement notice:** a notice issued for non-compliance.
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<table>
<thead>
<tr>
<th>Activity</th>
<th>Responsible Party</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undertake investigations in the event of an incident or failure to comply.</td>
<td>MSQ or DEHP.</td>
</tr>
<tr>
<td>Following incident, MSQ investigates and implements mitigating measures.</td>
<td></td>
</tr>
<tr>
<td>Report breaches to appropriate regulatory authorities. Ports North to consider issuing penalties as per Port Notices.</td>
<td></td>
</tr>
<tr>
<td>Systems to be reviewed to ensure shipping movements are recorded. Internal and external audits may be required to identify deficiencies.</td>
<td></td>
</tr>
<tr>
<td>Review and revise triggers for activation of Emergency Response Plan if current triggers are considered insufficient for changing port conditions.</td>
<td>Ports North, MSQ and DEHP.</td>
</tr>
<tr>
<td>Queensland Coastal Contingency Action Plan may be activated.</td>
<td>Ports North, MSQ and DEHP.</td>
</tr>
<tr>
<td>No discharge of bilge water at any time. (Bilge water discharge classified as oil spill).</td>
<td>Ship owner/operator.</td>
</tr>
<tr>
<td>Queensland Coastal Contingency Action Plan may be activated.</td>
<td>Ports North, MSQ and DEHP.</td>
</tr>
<tr>
<td>No discharge of any other substance from any ship unless to licensed contractor.</td>
<td>Ship owner/operator.</td>
</tr>
<tr>
<td>Reduction of accidental cargo loss through implementation of appropriate cargo storage and handling.</td>
<td>Ship owner/operator.</td>
</tr>
</tbody>
</table>
C4.13 Action Program

C4.13.1 Continuous Improvement
This MOMP is a ‘living document’ that will be reviewed regularly and amended as necessary to allow new or changing environmental risks relating to the project to be addressed.

As part of Ports North’s overall management systems, feedback systems from monitoring and site management will be in place for the duration of the project to enable the MOMP to be updated and responsive.

Other triggers for the review of this MOMP may include:
- Changes to organisational structure and roles and responsibilities
- Changes in environmental legislation and/or policies
- New technologies/innovation relevant to applied methods and controls.

C4.13.2 Auditing

Periodic reviews of the implementation of this MOMP will be integrated into existing audit schedules for port operations. To enable verification of the implementation, records as outlined in the tables of the preceding sections will be maintained. Records inclusive of the following will be kept to assist in the auditing process:
- Ship details, ship origins details and corrective actions included
- Records of actions, including any visual inspections, for possible audit by regulating authorities
- Records of shipping and cargo movements
- Any other information listed by this plan as requiring collection, including evidence of actions undertaken and signoff from actionees that requirements have been fulfilled.

In the event of continual breaches, procedural reviews will be undertaken to identify the underlying cause(s).

C4.13.3 Monitoring

Monitoring for each element is detailed in Sections C4.9 to C4.12 for Vessel Traffic Management Plan, Aids to Navigation Management Plan and Ship-Sourced Pollution Prevention Management Plan respectively.

This monitoring program will enable:
- Early detection of environmental management issues during shipping operations
- Additional information for the port, from which trends and changes in the environmental quality during shipping operations can be detected.

Monitoring will be undertaken according to existing procedures.

C4.13.4 Records

As noted in Sections C4.4 to C4.6, records would be kept of actions taken in regards to this MOMP to enable possible auditing. Records would also encourage the use of preventative action, as well as corrective action following non-compliance.

Environmental records as per Ports North’s management system will be:
- Kept as objective evidence of compliance with environmental requirements
- Maintained according to Ports North’s record keeping procedure or contractor’s record keeping procedure.

Records and this MOMP will be controlled in accordance with Ports North’s management systems.

In addition to regular reporting as required by this MOMP, information obtained during its implementation will be available for inclusion into reporting undertaken by Ports North.
C4.13.5 Responsibilities

C4.13.5.1 Ports North

Ports North is a Queensland Government Owned Corporation responsible for the management of the Port of Cairns and other ports in the Far North Queensland region. As the proponent of the project EIS, Ports North is responsible, within relevant legislative requirements, for ensuring the project is designed, developed and subsequently managed to support shipping operations that are safe and meet the requirements of applicable environmental legislation, achieve best practice environmental management and achieve the requirements of the proponent and the relevant authorities.

C4.13.6 Regulatory Bodies

The MOMP complements the material presented in the main body of the EIS for the project as it brings together activity-specific operations management and protection measures under consideration, in particular to support safe and efficient and effective vessel operations in the Port of Cairns.

The MOMP will be progressed at the conclusion of the EIS process, taking into consideration comments from regulatory bodies on the EIS and updated during detailed design, to:

- Provide the framework for management of vessel operations in the Port of Cairns
- Be submitted to address approval requirements under Queensland and Commonwealth legislation.

Once the MOMP is finalised, it will be the primary responsibility of Ports North to implement the plan. It will require Ports North to engage with other relevant authorities, such as MSQ, to seek alignment of their vessel management procedures during the operational phase of the project.

Authorities and agencies in addition to Ports North have been listed in this MOMP as their roles and responsibilities apply to the marine side operational functioning of the Port.

C4.13.6.1 Ship Owners and Operators

Ship owners and operators have a number of responsibilities under this MOMP. It will be Ports North’s responsibility to communicate this MOMP to shipmasters; however, it will be the responsibility of the individuals and relevant organisations to ensure that relevant management actions are implemented.

C4.13.7 Staff Training

Relevant personnel shall attend an induction before commencing work at Ports North’s control areas. The induction shall include the measures contained in this MOMP regarding the operational and environmental commitments and measures relevant to the individual staff positions. Staff attending the induction shall be mentored to ensure commitments will be implemented by the appropriate staff.
C4.14 Enquiries and Complaints Management

C4.14.1 General Enquiries and Information

General enquiries can be made via Ports North’s website using the contact form or e-mail.

General contact details for Ports North:
- Telephone: +61 7 4052 3888
- Fax: +61 7 4052 3853
- Email: enquiries@portsnorth.com.au

After hours emergencies:
- Telephone: +61 7 4051 2558


C4.14.2 Complaints Management Process

Ports North maintains a system to record and respond to feedback on matters pertaining to the operation of the port. Such information on complaints and complements can be provided via one of the following contact points:

Mail
- Address: Cnr Grafton & Hartley Streets (PO Box 594)
  Cairns QLD 4870

Email
- enquiries@portsnorth.com.au

General Enquiries
- Telephone: +61 7 4052 3888
- Fax: +61 7 4052 3853
- Email: enquiries@portsnorth.com.au