



**PORT OF MACKAY  
NORTH QUEENSLAND'S  
BREAK BULK GATEWAY**

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As the gateway to the Bowen and Galilee Basins, the Port of Mackay has the largest break bulk storage area in the region and is perfectly positioned to meet your diverse trade needs.

## Strategic advantages for your break bulk cargo

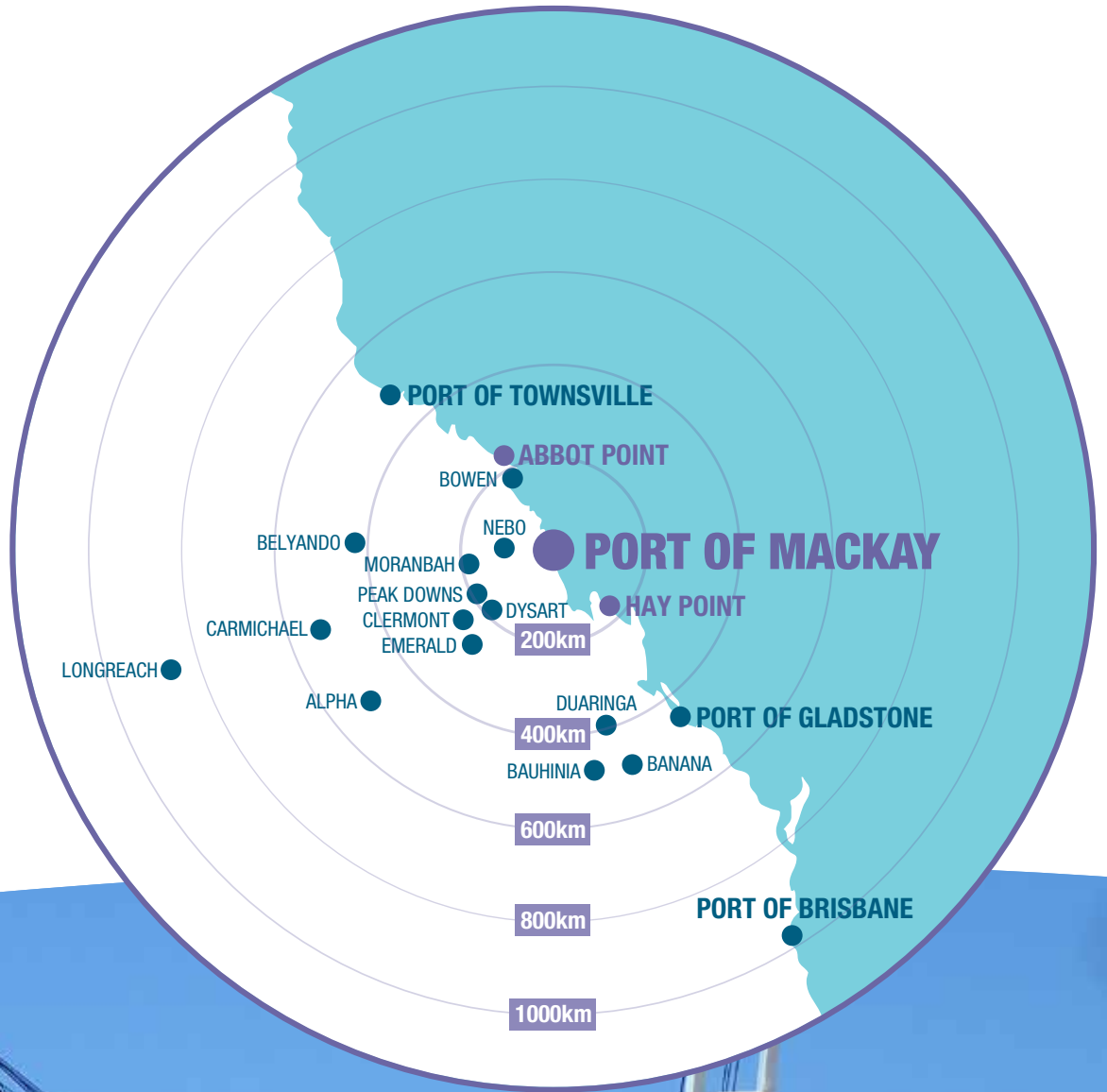
- Minimal ship queuing
- Primary gateway to the Bowen and Galilee Basins
- Proven multi-modal oversize overmass (OSOM) logistics hub
- Multiple berth options
- Sheltered harbour
- Ready access to major transport corridors
- Coastal shipping and barging within North Queensland Bulk Ports' integrated network of ports (Hay Point and Abbot Point)
- Quarantine washdown facilities
- Large land bank for export pre-receival and break bulk back stack operations
- Mining Equipment, Technology and Services (METS) hub including world-class engineering nearby
- 24/7 secure operating port

A major Mining Equipment, Technology and Services (METS) hub is located in the adjacent suburb of Paget.

We offer a single point of contact for project management and are committed to developing flexible, customised solutions. We also provide reliable access to berth space, minimising delays in your supply chain. With decades of experience handling oversize overmass (OSOM) cargo, we are a port you can trust to help you achieve your project goals.

The Port of Mackay is part of North Queensland Bulk Ports' integrated ports network, facilitating more than half of Queensland's trade by tonnage between key national and international hubs.





# BREAK BULK PORT INFRASTRUCTURE

Wharf  
**01**

## At the Port of Mackay, we offer reliable access to berth space across four multi-use wharves.

Our wharves can accommodate roll-on roll-off (RORO) vessels up to 200m length overall (LOA) and 32.2m beam.

We also offer our customers the opportunity to transition laydown areas to bonded warehousing and distribution centres.

In recent years we have facilitated the transport of diverse break bulk OSOM cargo, including:

- heavy mining equipment and plant – e.g. draglines, excavators, bulldozers, shovels, wash plants
- mining vehicles – e.g. 135-tonne dump trucks
- longwall equipment – including roof supports
- conveyor systems
- stacker reclaimers
- steel work and fabrication
- railway lines and wagons
- pipes and generators
- accommodation units.

Onsite we have quarantine washdown facilities that can accommodate containers, large heavy machinery and vehicles used for mining and agricultural purposes.

## Quarantine wash-down facilities

- Federally accredited
- Licensed 77g customs depot
- Quarantine approved
- Accommodates containers, large heavy machinery, vehicles
- Operated by Northern Stevedoring Services (NSS)



## Channel

- 180m wide
- Swing basin design
- 8.7m depth
- 246m turning radius



	ALLOWABLE DECK CAPACITY (KPA)	TOTAL SINGLE AXLE WEIGHT LIMIT (t)	TOTAL COMBINED DUAL AXLE GROUP WEIGHT LIMIT (t)*	TOTAL COMBINED TRIPLE AXLE GROUP WEIGHT LIMIT (t)*	CONTINUOUS AXLE LIMIT (1.8M AXLE SPACINGS) LOAD PER AXLE (t)	
<b>Wharf 01</b>	<b>WHARF 01 APPROACHES</b>	<b>31</b>	<b>36</b>	<b>49</b>	<b>24.4</b>	
	<b>WHARF 01 MAIN DECK</b>	<b>44</b>	<b>43</b>	<b>53</b>	<b>26.1</b>	
<b>Wharf 03</b>	<b>WHARF 03<sup>^</sup></b>	<b>17.5</b>	<b>31</b>	<b>34.6</b>	<b>36.5</b>	<b>5.2<sup>^^</sup></b>
<b>Wharf 04</b>	<b>WHARF 04<sup>^</sup></b>	<b>35</b>	<b>47</b>	<b>73.3</b>	<b>96.9</b>	<b>31.6</b>
	<b>WHARF 04 EASTERN APPROACH</b>	<b>46</b>	<b>93</b>	<b>73.3</b>	<b>96.9</b>	<b>28</b>
	<b>WHARF 04 WESTERN APPROACH</b>	<b>36</b>	<b>63</b>	<b>70</b>	<b>73</b>	<b>20</b>
<b>Wharf 05</b>	<b>WHARF 05</b>	<b>54</b>	<b>50</b>	<b>66.8</b>	<b>75.1</b>	<b>18.75</b>
	<b>WHARF 05 EASTERN APPROACH</b>	<b>23</b>	<b>43</b>	<b>48.7</b>	<b>51.1</b>	<b>15.1</b>
	<b>WHARF 05 WESTERN APPROACH</b>	<b>25</b>	<b>58</b>	<b>66.2</b>	<b>69.4</b>	<b>15.6</b>

No loads to be on wharves while berthing.

\* Load capacities have been expressed as the combined mass of the group of axles where in all axels in the group have an equal mass, which adds to give the combined group axle mass limit as tabulated.

<sup>^</sup> Without Ship Loader in bay.

<sup>^^</sup> When seven axles are considered.

# STORAGE AND LAY DOWN AREAS

The Port of Mackay features the largest break bulk storage area in the region.

Land is available for a variety of uses, including but not limited to staging, pre-assembly and pre-commissioning of machinery and equipment.

We also offer our customers the opportunity to transition laydown areas to bonded warehousing and distribution centres.

- **22 hectares** available inside secure port area for laydown (full or partial hardstand and grassed) over short, medium and long term
- **26 hectares** available outside secure port area for laydown (full or partial hardstand and grassed) over short, medium and long term
- **30 hectares** additional port land (inside and outside secure area) could be developed for laydown at relatively short notice
- **250 hectares** potentially available for development on strategic port land



# Direct links to Abbot Point and Hay Point

The Port of Mackay reinforces its status as a primary gateway to the Bowen and Galilee Basins by offering coastal shipping and barging to and from the Ports of Abbot Point and Hay Point — two of Queensland's major coal export facilities.

By using these ports' marine offloading facilities (MOFs), our customers can facilitate the safe and efficient transfer of large equipment and materials throughout the region, while reducing the logistical challenges associated with road transfers.

## Hay Point abutment

The ramp floor area has been designed to support the following loads:

- 1 Standard non-oversized highway trucks (including B-Doubles):
  - a Single axle – 9t per group
  - b Dual axle – 16.5t per group
  - c Tri axle – 20t per group
- 2 Wheeled machinery up to 75t GVM (ie. CAT 740 or similar)
- 3 Tracked machinery up to 75t GVM
- 4 Heavy Load Platform (HLP) as per AS5100.7 up to 30t per axle.

Ramps are to be used in pairs with vehicle load distributed evenly between ramps.

Only one vehicle on ramps simultaneously.

Maximum travel speed 20km/hr.

The base of the ramp is supported on a hard surface, suitable for supporting:

- 1 SM1600 – 4 x 24t triple axles with a 24kN/m lane load
- 2 HLP400 – 16 axles at 1.8m spacings, 25t per axle.

## Hay Point MOF and causeway

The MOF has been designed to support the following loads:

- 1 Designed for 290t Liebherr Crawler Crane (LR1300)\*
  - a 106T lifting hook with hoisted mass 100t and maximum horizontal force of 400kN

The causeway has been designed to support the following loads:

- 1 T44 Vehicle Load – 10t max axles, 16t dual axles and 43t gross mass
- 2 290t Liebherr Crawler Crane (LR3100)\*\*

\* Potential lessees will need to obtain approval for cranes using the barge landings and a structural capacity check will need to be undertaken for all other equipment proposed.

\*\* Tracking without any load on the hook.

## Abbot Point MOF

Capacity of the Abbot Point MOF, which received a \$8.5 million upgrade in 2016–17, includes:

### Abbot Point barge ramp design loading

- 200t mobile crane – travelling or set-up on outriggers
- 25t excavator
- Articulated dump trucks (up to 50t empty)
- Semi-trailer
- W80 – 8t uniformly distributed over contact area 400mm x 250mm
- A160 – 16t individual axle load.

### Abbot Point RORO design loading

- W80 – 8t uniformly distributed over contact area 400mm x 250mm
- A160 – 16t individual axle load
- M1600 – 4 x 36t triple axles with a 6kN/m lane load
- S1600 – 4 x 24t triple axles with a 24kN/m lane load
- HLP320 – 16 axles at 1.8m spacings, 20t per axle.

### Abbot Point MOF design loading

- 300t crawler crane
- W80 – 8t uniformly distributed over contact area 400mm x 250mm
- A160 – 16t individual axle load
- M1600 – 4 x 36t triple axles with a 6kN/m lane load
- S1600 – 4 x 24t triple axles with a 24kN/m lane load
- HLP320 – 16 axles at 1.8m spacings, 20t per axle.



## Experience you can rely on

The Port of Mackay is a reliable industrial partner, with a 75-year history facilitating trade to the Bowen and Galilee Basins and surrounding catchment. We pair our experience with robust port handling facilities and the latest in safety and quality management systems.

We are committed to building long-term relationships with our customers. We will work with you to understand the details of your project and develop cost-effective solutions tailored to meet your unique needs.

Our service includes helping you engage early with key project stakeholders, including customs and quarantine, security, stevedores and harbour masters.

We also offer access to a wide range of mining support companies located within or near our port, with services including machinery maintenance, towage operators, shipping agents, ship repairs, heavy haulage transport operators, crane hire and logistics.

## Get in touch

For more information on processes at the Port of Mackay, please visit our website:  
[nqbp.com.au/our-ports/mackay](http://nqbp.com.au/our-ports/mackay)

For a tour of the port and an opportunity to discuss your break bulk project in person, please contact:

[trade\\_enquiries@nqbp.com.au](mailto:trade_enquiries@nqbp.com.au)



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