



Environment

DBCT P/L has always been very conscious of the effect of its operations on the surrounding environment. Through its Integrated Environment Management System, Environmental Action Team and continual improvement projects, DBCT P/L is committed to minimising its impacts on the local marine and terrestrial ecosystems.

DUST MONITORING AND SUPPRESSION

DBCT P/L employs numerous tools, including sprinkler systems, water and vacuum trucks, coal-handling techniques and infrastructure design, to minimise and control dust emissions. Refer to the **Dust Management Fact Sheet** for full details.

NOISE SUPPRESSION

DBCT P/L employees and contractors working at the terminal are required to assess the levels of noise created during any task they undertake.

Noise is monitored in real-time and reported monthly and quarterly to the local community and the EPA. Engineering efforts have also ensured the Terminal remains within the operating noise parameters set by the EPA.

Low-noise idlers are used on much of the terminal's conveyor system, with plans for rolling replacements where warranted. Transfer towers close to sensitive areas have been enclosed and air-handling systems installed to reduce and control noise generated by conveyor drives. New gearboxes on terminal machinery featuring noise controls, shrouded audible alarms on some yard machines and a change to operational practices ensure noise emissions are minimised.

LIGHTING

"Turtle-friendly" sodium-vapour lighting has been used on the jetty and wharf structures to ensure that lights do not interfere with nesting turtles and their hatchlings.

As DBCT is a 24-hour operation, on-site lighting colours, designs and installation as well as operating procedures have all been designed to ensure that neighbouring residents, particularly those on DBCT's western boundary, have minimal intrusion.

WATER

Water is a precious resource – both on terminal and off – and so a waterwise approach to operations is a high priority. Water use is closely monitored, with all water used on site collected and recycled. The stockyard is designed to harvest any runoff for reuse and all water used off-shore on the jetty and wharf is collected and brought ashore for reuse in an arrangement unique to DBCT. Refer to the **Water Fact Sheet** for further details.

SUSTAINABILITY

In addition to the efficient use of water and the terminal's extensive water recycling program, DBCT P/L is planning to commence reporting energy consumed per tonne of coal shipped in an effort to become more energy efficient and reduce greenhouse gas emissions.

SPILLAGE PREVENTION

Great care is taken to prevent and minimise spillages on site, including bunding around storage tanks, clean-up kits and plans located throughout the terminal, risk assessments prior to activities and comprehensive incident reporting of spills and contamination to ensure appropriate action is taken to minimise impact.

ENVIRONMENTAL PROTECTION AGENCY (EPA)

DBCT operates well within EPA guidelines and licence conditions, as specified in the Environmental Authority NM0322.

ISO 14001

DBCT P/L earned ISO 14001 accreditation in January 2005 and is regularly audited and monitored to retain this internationally-



respected environmental management benchmark.



This sea eagle's nest was relocated from the top of a yard machine to a new, man-made perch in the stockyard.

NATIVE FAUNA

A wide variety of native fauna co-exists with DBCT P/L operations at the Terminal, including possums, wallabies, dingoes, echidnas, snakes and many breeds of birds. The Terminal's domestic dam has a healthy population of ducks, freshwater turtles and fish. Offshore, humpback whales and their young pass close to wharf and jetty structures and a multitude of fish species, especially pelagic varieties, as well as Flatback and Green turtles are found in the surrounding waters. DBCT's plant and buildings are especially favourable to large raptors, such as sea eagles and kestrels, who feed and live within the Terminal precinct despite the added industrial activity associated with recent terminal expansions.



One of the many freshwater turtles which live in the terminal's domestic dam.

DBCT P/L believes that it can manage the Terminal in a manner that permits a synergistic relationship with most native wildlife. Activities that have the capacity to disturb native wildlife are planned in a

manner that minimises any impact and ensures compliance with relevant legislation. Native wildlife that is likely to be adversely affected by terminal activities is relocated in accordance with the law and in association with advice from relevant experts. For example, when a sea eagle built its nest on one of the Terminal's yard machines, terminal staff relocated the nest to a specially-made structure where it has become a home to several generations of kestrels (the sea eagles have since become resident in trees on the Terminal's boundary).

NATIVE FLORA

Prior to the creation of DBCT, the Terminal's site was extensively cleared of remnant vegetation and used for cattle. Remaining native vegetation includes mixed eucalypt woodland and riparian vegetation. In association with Babcock and Brown Infrastructure and the Ports Corporation of Queensland, DBCT P/L aims to rehabilitate suitable terminal land with appropriate native species and is committed to ongoing programs designed to eradicate noxious plants and control and eliminate nuisance weeds.

RECYCLING PROGRAM

DBCT P/L encourages all employees, contractors and visitors to the site to be environmentally aware and place all recyclable refuse in the appropriate collection receptacles. The Terminal current recycles over 50% of its waste and hopes to lift this figure to 70% through an emphasis on staff education programs and new initiatives. Items currently recycled include office refuse such as paper, cardboard and aluminium cans, as well as industrial products including oil, batteries, scrap steel and conveyor belt.

BETTER CHOICES

Chemicals and other products used on site are regularly reviewed in a bid to ensure environmentally-friendly alternatives are used whenever possible. DBCT P/L also minimises the storage of lubricants offshore to reduce potential hazards.

EMPLOYEE EDUCATION

DBCT P/L's Environmental Action Team, comprised of employees representing the



company's various business units, meets regularly to discuss the Terminal's environmental performance and challenges, and progress new projects and initiatives. All employees receive regular updates on the EAT's efforts, as well as general education sessions on a wide range of environmental topics in a bid to improve site-wide awareness and knowledge.

DBCT P/L's document system and work procedures also promote environmental awareness, with Risk Assessments, Contractor Management practices and Standard Work Procedures all containing prompts designed to reduce risk to the environment.

COMMUNITY INPUT

DBCT P/L's Community Working Group (CWG) features an elected Environmental representative in a bid to promote the free flow of information between the terminal and local environmental interests and encourage communication and consultation on a range of environmental issues. The current Environment representative is Betty Hobbs on behalf of the Mackay Conservation Group. The CWG is also keen to work with community groups on environmental projects in the Hay Point area and makes up to \$6000 available each year to support such initiatives. For further information on the CWG Fund please contact DBCT P/L Community Liaison Officer Cathy Kelly on 4943 8397 or via email at CathyK@dbct.com.au

PARTNERSHIPS

DBCT P/L worked in conjunction with Sarina Land Care Catchment Management Association and the Sarina Green Corps to create a series of sand ladders at Half Tide Beach. The ladders provide safe beach access while also helping to stabilise the fore dunes and sensitive areas next to Grendon Park. DBCT P/L is also a strong supporter of community-based environmental initiatives, such as Clean Up Australia Day.



WHOLE OF PORT APPROACH

The Whole of Port Environment Management Strategy for the Port of Hay Point was developed jointly by DBCT P/L, the Ports Corporation of Queensland and Hay Point Services Pty Ltd, in consultation with the EPA. The strategy aims to support the sustainable development and operation of the port using environmentally and commercially-sound risk management principles. The strategy promotes a cohesive approach, the avoidance of duplication and the adoption of common standards and methods.