

**Reef Guardian Council Communiqué: As communities of the Great Barrier Reef and Reef Guardian Councils we seek State and Federal Government guarantee that coastal development does not damage the Great Barrier Reef any further
– dated 21 May 2013 – Page 1 of 3**

Townsville Reef Guardian Council Communiqué

As communities of the Great Barrier Reef and Reef Guardian Councils we seek State and Federal Government guarantee that coastal development does not damage the Great Barrier Reef any further

A healthy and productive Great Barrier Reef is integral to who we are in north Queensland, we are reef people and its future matters to all of us, even if we are not direct users. As local authorities we naturally support economic development in our cities and regions, however, the reef's economic importance to employment, tourism and lifestyle (recreational fishing, diving and boating) is integral to this future economic development and ongoing employment of reef depended industries.

As we understand, the threats to the Great Barrier Reef (GBR) are real, and some of the threats are now being mitigated by a myriad of effective actions we as local councils, farmers and fishers are proactively committing to, in order to reduce our impacts ^(see references 1,2,3 below).

In particular, Reef Guardian and catchment Councils have, collectively, hundreds of programs which reduce the impact of coastal communities and council activities upon the Great Barrier Reef World Heritage Area. These programs address: catchment and water quality management ^(22-Case study 30); waste management; land management; climate change mitigation; community engagement and/or resident/student/business capacity building ^(22-Case study 32).

These programs help to protect the Great Barrier Reef which brings to Queensland over 60 000 jobs and income of over \$6 billion annually – much of which benefits our coastal constituents.

Because we are concerned about recent scientific evidence, about the continued decline in the Great Barrier Reef's coral cover, concerns about the status of key inshore habitats and species, and degradation of the health of the Great Barrier Reef ecosystem ^(1,2,4-16), we, as local governments and communities, call on State and Federal Governments to guarantee new coastal developments will not further increase existing impacts of the GBR, as these impacts have been well documented.

We would be highly concerned for our reef, should additional pressure result from the significant expansion of ports and industrial development accompanied by a projected near-doubling in shipping, major coastal reclamation works, massive seabed dredging and dredge spoil disposal – all either immediately adjacent to, or within, the Great Barrier Reef World Heritage Area ¹⁷⁻²¹.

Townsville City Council dated 21 May 2013

TOWNSVILLE CITY COUNCIL
ORDINARY COUNCIL
TUESDAY 28 MAY 2013

Reef Guardian Council Communiqué: As communities of the Great Barrier Reef and Reef Guardian Councils we seek State and Federal Government guarantee that coastal development does not damage the Great Barrier Reef any further
– dated 21 May 2013 – Page 2 of 3

Townsville Reef Guardian Council Communiqué

We, as Reef Guardian and catchment Councils, believe these activities could further damage our Great Barrier Reef based upon our experience in managing coastal catchments and island communities. Because we know current management systems for mitigating environmental impact are flawed (inadequate), despite best management practices, and we feel strongly that additional impacts from increased coastal shipping and associated coastal development are unlikely to be fully mitigated.

Therefore, we ask State and Federal Governments to work with Councils and industry to create a collaborative community and an integrated community of business, industry, government and citizens^(22-Case studies 30 & 32) that:

- Ensures new development and growth within existing ports (including the dumping of dredge materials) does not impact on the World Heritage values of the Reef (including inshore fringing coral reefs and marine wildlife habitats);
- Allows new port developments outside major, long-established port areas if rigorous, independent scientific analysis shows that there would be less environmental impact by spreading industrial port development to other locations;
- Improves environmental standards and technology applied to existing industrial developments along the GBR coastline to ensure maximum environmental protection;
- Requires new development to minimise its industrial footprint through efficiency and resourcing sharing of infrastructure;
- Fosters innovation, creativity and system-based approaches^(22-Case studies 32) in: port design; construction materials; addressing ecological design/processes and offsets; and dredging (including sediment, contaminants and marine wildlife safety);
- Improves shipping management to ensure no impacts on World Heritage values of the Reef;
- Recognises potential value of shipping for reducing heavy vehicle road transport;
- Develops and requires social and environmental offsets for identified and potential or unforeseen impacts, including recognition of the opportunity to reverse inshore habitat decline of fringing coral reefs and marine habitats (e.g. Middle Reef in Cleveland Bay, Townsville); and
- Incorporates a collaborative approach to multi-stakeholder involvement, catchment management and collective learning approaches.

Townsville City Council dated 21 May 2013

TOWNSVILLE CITY COUNCIL
ORDINARY COUNCIL
TUESDAY 28 MAY 2013

Reef Guardian Council Communiqué: As communities of the Great Barrier Reef and Reef Guardian Councils we seek State and Federal Government guarantee that coastal development does not damage the Great Barrier Reef any further
– dated 21 May 2013 – Page 3 of 3

Townsville Reef Guardian Council Communiqué

References

1. Brodie, J. E. and J. Waterhouse. 2012. A critical review of environmental management of the "not so Great" Barrier Reef. *Estuarine, Coastal and Shelf Science* **2012**:1-22.
2. Russ, G. R., A. J. Cheal, A. M. Dolman, M. J. Emslie, R. D. Evans, I. Miller, H. Sweatman, and D. H. Williamson. 2008. Rapid increase in fish numbers follows creation of world's largest marine reserve network. *Current Biology* **18**:1-2.
3. Great Barrier Reef Marine Park Authority. 2009. Great Barrier Reef Outlook Report. GBRMPA, Townsville.
4. Brodie, J. E., J. Binney, K. Fabricius, I. Gordon, O. Hoegh-Guldberg, H. Hunter, P. O'Reagain, R. Pearson, M. Quirk, P. Thorburn, J. Waterhouse, I. Webster, and S. Wilkinson. 2008. Synthesis of evidence to support the Scientific Consensus Statement on Water Quality in the Great Barrier Reef. Page 64, Townsville.
5. Burns, K. and D. Brinkman. 2011. Organic biomarkers describe the major carbon inputs and cycling of organic matter in the central Great Barrier Reef region. *Estuarine, Coastal and Shelf Science* **93**:132-141.
6. Brodie, J. E., F. J. Kroon, B. Schaffelke, E. C. Wolanski, S. E. Lewis, M. J. Devlin, I. C. Bohnet, Z. T. Bainbridge, J. Waterhouse, and A. M. Davis. 2012. Terrestrial pollutant runoff to the Great Barrier Reef: An update of issues, priorities and management responses. *Marine Pollution Bulletin* **65**:81-100.
7. Fabricius, K. E., K. Okaji, and G. De'ath. 2010. Three lines of evidence to link outbreaks of the crown-of-thorns seastar *Acanthaster planci* to the release of larval food limitation. *Coral Reefs* **29**:593-605.
8. De'ath, G., K. E. Fabricius, H. Sweatman, and M. Puotinen. 2012. The 27-year decline of coral cover on the Great Barrier Reef and its causes. *Proceedings of the National Academy of Sciences*. 109(44): 17995-17999.
9. Marsh, H., G. De'ath, N. Gribble, and B. Lane. 2005. Historical marine population estimates: triggers or targets for conservation? The Dugong case study. *Ecological Applications* **15**:481-492.
10. Sobotzick, S., R. Hagihara, A. Grech, and H. Marsh. 2012. Aerial survey of the urban coast of Queensland to evaluate the response of the dugong population to the widespread effects of the extreme weather events of the summer of 2010-11. Final report to the Australian Marine Mammal Centre and the National Environmental Research Program. James Cook University, Townsville.
11. Johnson, J. E. and P. Marshall. 2007. Climate change and the Great Barrier Reef. GBRMPA, Townsville.
12. Donner, S. D. 2009. Coping with commitment: projected thermal stress on coral reefs under different future scenarios. *PLoS ONE* **4**:e5712.
13. Knutson, T. R., J. L. McBride, J. Chan, K. Emanuel, G. Holland, C. Landsea, I. Held, J. P. Kossin, A. K. Srivastava, and M. Sugi. 2010. Tropical cyclones and climate change. *Nature Geoscience* **3**:157-163.
14. GBRMPA. 2012. Great Barrier Reef Biodiversity Conservation Strategy 2012 - draft for public consultation. GBRMPA, Townsville.
15. Hoegh-Guldberg, O., S. Andrefouet, K. Fabricius, G. Diaz-Pulido, J. Lough, P. Marshall, and M. S. Pratchett. 2011. Vulnerability of coral reefs in the tropical Pacific to climate change. Pages 251-296 in J. D. Bell, J. E. Johnson, and A. J. Hobday, editors. *Vulnerability of tropical Pacific fisheries and aquaculture to climate change*. Secretariat of the Pacific Community, Noumea.
16. McCulloch, M., J. Falter, J. Trotter, and P. Montagna. 2012. Coral resilience to ocean acidification and global warming through pH up-regulation. *Nature Climate Change* **April 2012**:1-5.
17. Australian Transport Safety Bureau. 2012. Independent safety issue investigation into Queensland Coastal Pilotage. Australian Transport Safety Bureau, Canberra.
18. Department of State Development Infrastructure and Planning. 2012. Great Barrier Reef Ports Strategy 2012-2022 For public consultation. Queensland Government, Brisbane.
19. Department of State Development Infrastructure and Planning. 2012. Great Barrier Reef Ports Strategy Frequently Asked Questions. Queensland Government, Brisbane.
20. Eco Logical Australia and Openlines Environmental Consulting. 2013. Abbot Point Cumulative Impact Assessment. Eco Logical Australia and Openlines Environmental Consulting, Brisbane.
21. Grech, A., M. Bos, J. Brodie, R. Coles, A. Dale, M. Hamann, H. Marsh, K. Neil, R.L. Pressey, M.A. Rasheed and M. Sheaves (in review) Guiding principles for the improved governance of port and shipping impacts in the Great Barrier Reef. *Marine Pollution Bulletin*.
22. Wilkinson, C. and J. Brodie. 2011. Catchment management and coral reef conservation: a practical guide for coastal resource managers based on best practice case studies. Global Coral Reef Monitoring Network and Reef Rainforest Research Centre, Townsville.
 - a. Case study 30. Creek to Coral 1: Improving water quality in Cleveland Bay, Townsville, Australia (Gunn, J, Manning, C., Lange J and Bruce, G)
 - b. Case study 32. Creek to Coral 2: System-based approaches to protect the marine environment from catchment activities, Townsville, Australia (Bruce, G.)