

# Grey Water Spill Highlights

## Need for MARPOL Update

Press release

Reports that a cruise vessel discharged several thousand litres of food waste and grey water into the Great Barrier Reef should send a clear message to the International Maritime Organisation that MARPOL Annex IV needs urgent revision, said Mark Beavis, Managing Director of ACO Marine.

While the alleged incident is still under investigation by the Australian Maritime Safety Authority, the pulped slurry could have been transferred from a food waste holding tank to the ship's grey water holding tank from where it was unintentionally discharged overboard into the protected marine park. The incident occurred on 26th of August 2018.

"There are local rules regulating the discharge of ships' grey water, but there is still no internationally-enforced requirement to prevent the damage that this waste stream can have on the marine environment and, ultimately, human health. Grey water is a such an under-reported threat; much more so than oily water, black water and sewage," said Beavis.

When discharged into the marine environment, the oils, fats, detergents, chemicals, greases, galley waste and micro- and nanoplastics that make up the grey water stream can flood the surrounding environment with nutrients. "It overloads the biological make-up of the eco-system, is being consumed by marine life and is entering the food chain," said Beavis.

The study, the first of its kind, analysed stool samples from eight participants around the world. None of the participants identified themselves as vegetarian and six ate fish. The samples contained up to nine different plastics of between 50 and 500 micrometres in size. On average, researchers found 20 microplastic particles per 10g of stool.

"Up to 5% of all the world's plastic ends up in the ocean, finding its way into seafood, including tuna, lobster and shrimp," said Beavis. "A significant amount of this microplastic is being discharged in the grey water generated by the global shipping fleet but, as an industry, we can reduce this by simply revising existing legislation.

"If we follow the spirit of MARPOL Annex IV, then grey water must be added because it has a far greater environmental and human impact than any other wastewater stream."

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In October, researchers at the Medical University of Vienna and the Environment Agency Austria published the results of a study into the amount of microplastic found in human stools.

### Picture Caption:

Barrier Reef spill highlights need for Grey Water rules, says ACO Marine's Mark Beavis



**About ACO Marine:**

Established fifteen years ago, ACO Marine is a member of the international German headquartered ACO Group and a leading supplier of advanced wastewater treatment systems to the global commercial, naval, offshore and leisure marine sectors with a sales and service network world-wide. Its unique environmental solutions are used primarily in wastewater technology, wastewater management and drainage systems.

The wide range of products includes advanced membrane bioreactor systems, conventional extended aeration with 'bio-sword' filtration sewage treatment plants, push-fit pipe systems in both stainless and galvanised steel and fully automated high capacity grease separators. ACO Marine develops in-house solutions from its ISO 9001 accredited production facilities, all of which are located entirely within the EU.

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