

Sustainable Remediation of Hazardous Dredging Spoil



Client:	Land and Water Services Ltd
Site:	Dunton Waste Treatment Centre
	Wheal Jane, Truro
	Cornwall
Contract Value:	£86,500.00
Technology Used:	Bio-accelerator – Rapid bioremediation of hydrocarbons.
	Soterion – Rapid decontamination and soils treatment plant for bulk volumes

The Falmouth Cruise Project comprised dredging works to create a deeper and straighter new navigation channel and to deepen the water berth along Queens and Northern Wharves.

Disposal of dredged material at sea was constrained by the local oyster and mussel beds. Dunton Environmental were able to provide treatment and dewatering of 2,500m3 of contaminated dredging spoil at our fixed treatment centre to achieve beneficial land re-use.



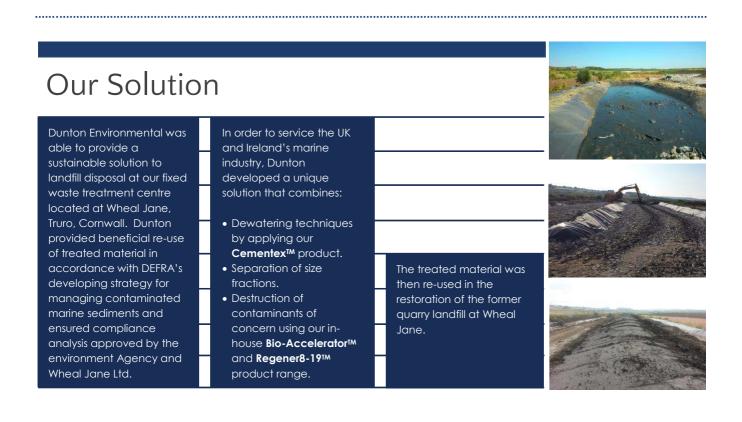
"Dunton are a good company and delivered what they said. We would use their services again".

Steve Massey, Divisional Business Manager, Land and Water Services Ltd



Challenges

- Land and Water were undertaking maintenance and capital dredging works to improve • navigation and cruise facilities at Falmouth Docks, Cornwall. The main purpose was to facilitate sustained long-term growth of Falmouth's cruise business.
- CEFAS grab sample analysis indicated the finer fraction was contaminated with petroleum • hydrocarbons and not suitable for disposal at sea due to local oyster and mussel beds.
- Options available for disposal on land were limited as the dredged material was classified as hazardous waste under the Waste Framework Directive. The high moisture content further prohibited landfill disposal.



Results

• Project was completed on time Project was completed on budget

100%

Diverted contaminated dredging spoil from hazardous landfill.

2,500m3

100%



Hydrocarbon impacted dredging successfully decontaminated and stabilised

