

Project Data Sheet



Project Port of Liverpool Pipeline In-River Placement

Client Peel Ports Group

Project The Port of Liverpool regularly undertakes the maintenance of the navigational levels within its dock systems by dredging by a Trailing Suction Hopper Dredger (TSHD). This type of dredger recovers sediments from the dock bed hydraulically, and then transits through the dock system, leaving via one of the two lock gates available. Once in the River Mersey, the dredger sails to the current licensed In-River placement site (Mid-River) and releases the dredged sediment through its bottom doors.

The Bates Partnership were engaged to assess if the transport and placement of the dredged material can be undertaken more effectively with the use of a pipeline. The pipeline(s) would eliminate the need for the dredger locking in and out of the dock system, which would assist with maintaining an acceptable water level in the dock system. Dredging cycle times (time between the start of one load and the start of the next) may also be improved and delays minimised, with associated cost savings.

The report produced quantified the potential benefits of pipeline discharge in order to assist the Port in making an informed decision for its long term maintenance dredging strategy for the docks.

Dates 2020