



## COAL SHIP LOADER

CLIENT - Drummond

LOCATION - Santa Marta, Colombia

COMPLETED - 2014

### DESCRIPTION

Matrix PDM Engineering provided marine structural design services for the improvement of a coal terminal facility at Puerto Drummond in South America. The existing operations used nearshore loading of coal into barges that are taken offshore for trans-loading to ocean vessels. The expansion now allows direct loading of ocean vessels approximately 1,900 meters offshore using a new conveyor system and two new ship loaders on the new ship loader pier. The pier is capable of loading two cape size vessels at one time, as well as berth two cape size vessels on the offside.

Matrix PDM supported Drummond in completing the final layout of the trestle and pier and detailed design. A constructability review of the design was also performed.

### PRINCIPAL FEATURES

- Designed marine structures for ship breasting dolphin pile structures, separate from the ship loader pier
- Designed marine piling and rail runway to support two ship loaders
- Designed ship loader pier deck to support conveyor system and traveling ship loaders
- Designed piling and deck structure for approach trestle; 1,900 meters long
- Designed abutment structure at shoreline for trestle

**FOR MORE INFORMATION:**

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