

# MULTI-PRODUCT DOCK AND TERMINAL EXPANSION



**PROJECT:** Expansion of Multi-Product Dock Facility

**LOCATION:** Charleston, SC

**CLIENT:** Kinder Morgan - Shipyard River Terminal

**SERVICES:** Economic Feasibility Study, Preliminary and Final Engineering, Construction Management

## DESCRIPTION

The Shipyard River Terminal (SRT) was expanded in 2001 to enhance the terminal's ability to handle non-cement related products including clinker, potash, bituminous and sub-bituminous coal, salt, urea and asphalt.

In 2000, River Consulting transformed the original SRT berth known as Dock #1 into one of the most efficient cement facilities in the world. Six months later, construction began on Dock #2 and its related infrastructure and components.

River Consulting worked with the client to provide an economic feasibility study, preliminary and final engineering and construction management for the expansion of Dock #2. Design included modification to the existing dock and a new inbound conveyor system to transport various commodities. Additionally, new storage, reclaim and truck and rail loading solutions were designed for the facility expansion.

## PRINCIPAL FEATURES

- Inbound conveyor system consisting of 54-inch belts with variable conveying rates
- 68,000 square feet of warehouse storage
- Warehouse system with a two-directional tripper capable of receiving material from docks #1 and #2
- Fuel product outdoor storage piles created by a series of stacking tubes and radial stackers
- Tunnel reclaim system comprised of a series of variable feed vibrating feeders
- New unit train loading station, capable of loading a train in less than eight hours
- Covered truck/rail loading, using front end loaders
- Existing dock modified and lengthened to receive Panamax-size vessels



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