

FERTILIZER EXPORT FACILITY



PROJECT: Enhancement of an Existing Fertilizer Export Facility

CLIENT: Kinder Morgan - Portland Bulk Terminal

LOCATION: Portland, OR

SERVICES: Facility Audit and Analyses, Conceptual Through Final Design Engineering, Program Management

DESCRIPTION

River Consulting was contracted to enhance the operation of the multi-grade potash terminal. Prior to design, the project team performed an existing facility audit and a dock and bridge analysis.

Conceptual through final design engineering was provided for the project and included, a new receiving and loadout facility, a dust collection system, an extensive washdown system, rail car unloading, portal reclaimers and a shiploader. Additionally, the entire reclaimer system was re-programmed to eliminate constant human operation and to eliminate downtime.

The six million ton per year capacity facility now features a 3,000 mtpd rail receiving system; 100,000 mt capacity storage building; and a 4,000 mtpd ship loading system.

PRINCIPAL FEATURES

- All weather receiving and loadout facility
- Dry bag dust collection system for corrosive environment
- Zero emissions at all transfer points
- Extensive washdown system to maintain cross-contamination requirements of end-users
- 180' long bottom dump rail car unloading
- Two portal scraper reclaimers operated from ship's dock
- Traveling gantry ship loader with cascade spout and movable cover



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