

# MUD AND SLURRY PUMPING RENTAL

PT. LEIGHTON CONTRACTORS



**PROJECT LOCATION:** Coal Mine owned by PT. Mahakam Sumber Jaya by Tanito Harum group - East Kalimantan Province

**PROBLEM:** PT. Leighton Contractors Indonesia was asked by PT. MSJ to consider options to remove 200,000 m<sup>3</sup> of mud and slurry materials from inflows and run of mine operations which were deposited in the operational mining area. PT. MJS and PT. LCI selected a disposal area within 600 m of the deposits current in pit location but required the material relocated to this point within maximum 3 month operational window, to expose coal required to meet PT. MSJ's export demands.

**SOLUTION:** PT. REI were engaged to conducted a field survey and determine the best options to remove and transfer this material in the most effective and efficient manner, with the timeframe at the front of mind. PT. REI worked closely with PT. LCI's engineering team to determine the right approach and design a system that would deliver the necessary outcomes with the lowest impact on the ongoing in pit mining program.

**SERVICE PROVIDED BY REI:** Liaising closely with our client, we conducted both a site and detailed product assessment. We also provided the system design, selected the appropriate equipment and assisted with installation planning to avoid the mining areas.

**PROJECT SCOPE:**

Minimum product discharge: 300 m<sup>3</sup>/hour

Static head up to: 10 m

Pipe length: 600 m

Specific Gravity: 1.3

pH: 4-5

**DURATION OF PROJECT:** 3 months initial

**EQUIPMENT PROVIDED:** One (1) only complete Custom Design Mud Recovery and Disposal System which included: our REL-Dragflow HY85/160B Hydraulically Operated Submersible Slurry Pump Unit, all required custom hydraulic component, custom designed and constructed excavator quick hitch attachment to suit our customers excavator, custom rock cage and screen and pump jetting ring, 1 x Custom Built 36m<sup>3</sup> Slurry Break/Booster Tank, 1 x REL-HM200 Hard Iron Slurry Booster Pump coupled to a 550hp High Horsepower QSK15 Power Frame, all required high pressure custom hose and high pressure lay flat hoses, electronic flow measurement, metering and density management equipment.

**RESULT:** Our client PT Leighton Contractors Indonesia was more than happy with the outcome which and most importantly, was completed on time, on budget with our equipment 100% available during the entire project.