



JOB PROFILE

PORT OF BRISBANE EXPANSION

MISSION^{OS} Employed to Track Competing Ground Treatment Methodologies during New Platform Development in Key Australian Port



Maxwell worked with Australian GeoEnvironmental consultant Coffey Geosciences to monitor the development of the Port of Brisbane expansion. As reclamation design consultant Coffey were tasked with identifying ground improvement strategies and trialling these over several areas. International contractors including Boskarlis, Menard were appointed to undertake trials over several areas. The data collected by Coffey needed to be made available for the in the contractors separately.

Maxwell Geosystems implemented the desktop INSITE system in 2006 and upgraded this to the MissionOS in 2010. The system tracked instrumentation results and progress of the filling works and enabled engineers to rapidly link the data to key parameters such as mud thickness and other geotechnical design data. A key advantage of the systems were their ability to manage data from a constantly changing environment. This included: Auto-revision of settlement plate data, inclinometer and piezometer data as the platform level was raised, auto-correction of piezometer and inclinometer data for settlement or reference pipe top levels and the ability to compare ratios of vertical and lateral movement of fills to assess optimum consolidation rates.

Available on the web, the data was used by Coffey's Brisbane office throughout the project to assess the performance of the various methods and forecast forwards to the completion of the project.