

Internal Caisson Survey

Overview

Internal inspection of caissons can provide detailed video evidence of surface build up and integrity issues to the extent of which an external ROV survey cannot. Internal caisson cleaning can also be provided by Walker Technical, throughout both pre and post jetting surveys, to ensure caisson internals are clean and clear.

Scope

The camera survey can determine cause of caisson performance in compliance with integrity requirements. Caissons' integrity could be challenged by heavy build up of marine growth or contaminants forming on the walls which, consequently would reduce the internal diameter of the caisson in turn affecting its design parameters. Internal surface build up can also become dislodged around the caisson due to pump vibration. This naturally falls and collects at the bottom, later to be sucked up through the pump causing over time, another integrity issue.

Challenges

Noticeable drop in the fire pump efficiency could be linked to any non-performances of the caisson. This is one area where an internal survey could determine cause and assist in the process of improving caisson integrity. With external ROV surveys, suspected holes and cracks may not be visible as marine growth has covered the work scope. Even with larger holes, sea water mussels can migrate to the area and close the hole, again making it difficult to gain accurate understanding of caisson integrity.

Our Approach

With an internal caisson survey, Walker Technical can conduct an extensive survey of the caisson and produce a findings report of the inspection, complete with images and DVD video for your management archive. Following these findings and upon review, you can thereafter determine the required and your preferred maintenance action.

