



DREDGING SOLUTIONS



Marine Projects

Estuarine Dredging, Cutter Suction Dredge

With more than 35 years of dredging experience, Dredging Solutions is at the forefront of solving sludge and sediment removal problems throughout Australia. We believe that every project requires an individual approach to ensure its success and our team of highly skilled operators are committed to continuous innovation, taking pride in delivering bespoke solutions to complex dredging challenges.

Through our work across marine sites of all shapes and sizes, we have led the way in providing cost effective solutions to sludge and sediment challenges. This extensive on-site experience has resulted in us building an excellent reputation for high quality work and solving problems others can't.

Sand Washing


Dredging Solutions has designed and fabricated a range of proprietary sand washing plants that are utilised on tight-footprint dredging projects allowing segregation of shells, silt and other gross fractions from the pumped dredge flow. This combination of screen and cyclone technologies can deliver distinct product outputs from raw feed flows up to 400m³/hr, precluding the use of traditional serpentine channel installations.

Silt Management

We regularly undertake silt management projects to ensure the continued operation of marinas, canals and other waterways. Combined with the use of geotextile dewatering containers, the build-up of fine and contaminated sediments can be effectively removed, dewatered and disposed of. The GPS guided removal of sediments and interchangeable removal tools allow us to tackle all grades of sediments with precision, while the high degree of control offered by our cutter suction dredges allows access to areas inaccessible to others.



Sand Washing Plant



Serpentine Sedimentation Channel


Serpentine Sedimentation Channel

Where there is available real estate, we employ serpentine sedimentation channels to effectively separate silt and other lighter fractions from dredged marine flows. Properly designed channels allow for winning of sand by an excavator at the point of discharge, with the silt flowing downstream and falling out in the serpentine legs where it can be extracted or incorporated in beach remediation as a substrate for re-vegetation.

Beach Nourishment and Waterway Rehabilitation

The dynamic coastal zone is constantly changing as sediments are naturally eroded and deposited. Through the use of our cutter suction dredges and professional sediment transport system, we can undertake dredging projects that repair and enhance degraded beaches and waterways. Our services include:

- The removal of accreted sediments from within embayments, waterways and channels.
- The grading of sediments for sand stockpiles for redistribution and beach nourishment using settlement ponds and mechanical sand washing equipment.
- The precision placement and profiling of sediments through direct discharge, sand bypass systems and use of earthmoving plant.



Sand Winning by Excavator