

Semaso

Sediment Management Solutions

Sedimentation occurs in many ports and navigation channels around the world. Without dredging and other mitigating measures this would result in draft restrictions for vessels entering the ports.

SEMASO is specialized in sediment management solutions for ports and navigational channels in estuarine areas around the world.

SEMASO provides clear and practical solutions for sediment problems, due to our up to date expert knowledge in the field, in house fieldwork and laboratory analysis, large network of experts, frequently consultations with clients and the ability to think practically.

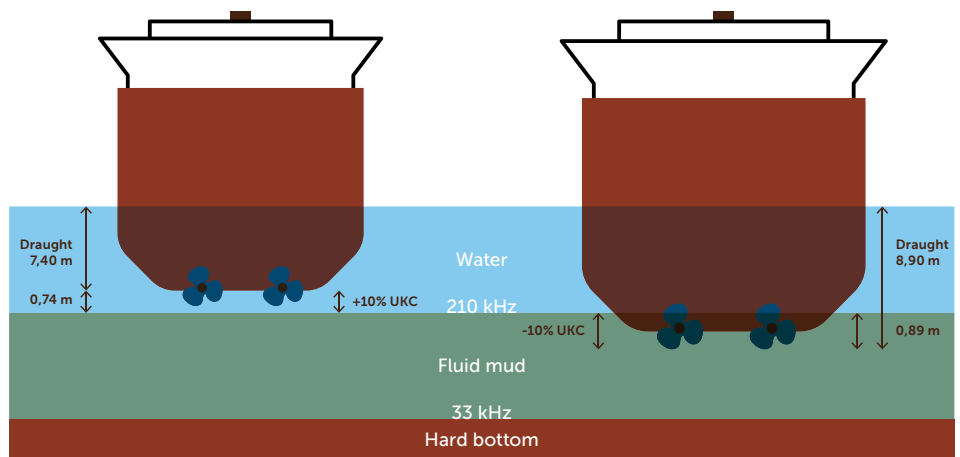
SEMASO is founded in 2016 as a sister company of the renowned Dutch companies Wiertsema & Partners B.V. and Marine Sampling Holland B.V. (specialized in geotechnical investigations, laboratory analysis and geotechnical consultation) and in close cooperation with Ravensrodd Consultants Ltd (finding solutions to fine cohesive sediment problems). The HQ of SEMASO is situated in Tolbert in the Netherlands.

The team of SEMASO consists of a number of experts, often the inventors of our generic Sediment Management Systems. Our team also acquired a network of experts within this field.

Consultancy

For the international port and shipping industry, on a worldwide scale, and acting with expert colleagues, SEMASO offers turnkey services realizing optimized modern sediment management solutions to individual muddy ports, port groups and national governments.

Increase in nautical depth



- » Geotechnical support and supervision during the execution of the fieldwork;
- » Reporting and presentation of the laboratory results;
- » Project management during different phases of implementation;
- » Implementation of:
 - Active Nautical Depth (AND)
 - Passive Nautical Depth



Contact

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Semaso

Sediment Management Solutions



- Autoflushing systems
- Keep Sediments Navigable (KSN)
- Entrance Flow optimization Structures (EFOS)

Fieldwork

Together with our sister companies Wiertsema & Partners B.V. and Marine Sampling Holland B.V. we have gained a lot of experience in the underwater sampling of the seabed in ports, canals, seas and estuaries.

- » Determination of the in-situ density (by SoniDens);
- » Taking samples of the 'fluid mud' layer for laboratory analysis (by Sludge Sampler);
- » Taking sediment water samples for laboratory analysis (by Horizontal sediment water sampler);
- » Sampling with the Van Veen Grab, Beeker sampler, Tube pump and Vibrocorer.

Laboratory

In consultation with the client, SEMASO will be able to execute some laboratory analyses on location, otherwise they will be executed in Tolbert, the Netherlands.

- » Classification of the sediment samples;
- » Particle Size Distribution by sieving (particles > 63 micron) and/or sedigraph (> 2 micron and < 63 micron);
- » Determination of the wet and dry densities and the particle density (by helium pycnometer);
- » Organic and carbonate content (chemical or glow method);
- » Testing for the rheological properties of fluid mud (yield point and viscosity);
- » Settling speed tests and re-consolidation tests;
- » There are several additional tests possible in our geotechnical laboratory.

All field, laboratory and consultancy activities are carried out according to the relevant ASTM or EU standards (e.g. NEN or BS) specified by our clients.

References

A list of reference projects is available via info@semaso.com



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