

PlumeCast

Predict dredging-related sediment spill and assess its potential environmental impact

Why PlumeCast?

Sediment spill from dredging operations may affect sensitive and protected species as well as natural habitats. Therefore, to obtain approval for new dredging activities, dredging companies are typically required to predict their expected spill and assess any potential consequences on the environment.

With the new cloud-based application PlumeCast, you can quickly screen predicted sediment spill during the early planning phase. Once operations have commenced, PlumeCast can then be used to forecast spill for the upcoming days so you can proactively manage its impact.

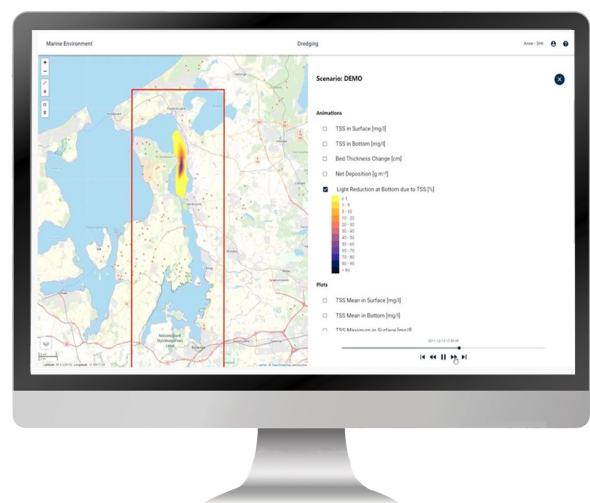
What's better is that PlumeCast can be used by anyone. Simply enter the details of your dredging operation and execute the simulation. You will soon have results in hand that can be animated for easy visualisation and downloaded for sharing with others.

- **Fast early assessments** - Quickly screen the effects of sediment spill during the planning stage as required for an Environmental Impact Assessment (EIA).
- **Proactive spill management** - Forecast spill plumes for the following days and use those results to guide your mitigation strategy.
- **Cost savings** - Complete the approval process faster with a subscription to PlumeCast versus the higher cost and learning curve associated with traditional modelling software.
- **Ease of use** - You don't need a modelling expert on your team to use PlumeCast thanks to its straightforward and easy-to-use interface.
- **Trusted results** - PlumeCast uses MIKE Powered by DHI's cloud-optimised computational engines to model hydrodynamics, sediment dynamics and shading effect on bottom vegetation. Models are developed by DHI experts.

Key application areas

Use PlumeCast to:

- Support an Environmental Impact Assessment (EIA) as required to obtain dredging approval
- Optimise your dredging strategy
- Screen potential impacts for designed scenarios
- Forecast spill plumes during operations to proactively manage potential impacts



To learn more about PlumeCast, visit: www.dhigroup.com/marine-water/plumecast-application