

ECOLOGICAL DREDGING WILL BE THE FUTURE

NEW DRAINAGE METHOD GETS WATER MANAGERS AND LOCAL RESIDENTS ENTHUSIASTIC!

Kurstjens BV is a specialist in the rental of mechanical silt-drainage equipment, such as centrifuges and belt filter presses. We are also specialized in hydraulic dredging with cutter suction presses. After years of technical developments, we present a new method for executing maintenance and remediation dredging that has more than proved its services in practice. Eco-friendly dredging is combined with a special drainage method.

The dredging work is executed in the water with a cutter suction dredger. The dredged material is transported by the dredging pipes to a central location on-site and mechanically de-watered directly to create a semi-solid dry soil. This dry soil can be transported to a recognized processor straight away or applied usefully on site.

This means no more time-consuming procedures for temporary dredging depots, less inconvenience for local residents, at least a 50% reduction in transport operations and major savings in dumping or recycling costs. It is all possible with ecological dredging!

Capacity:	> 200 m ³ in situ per working day
Space used:	ca. 150 m ²
Area of application:	class 0 to 4+ All types of sediments; both in urban and rural areas
Volume reduction:	50 to 80% less transport and dumping costs
Permits:	discharge of return water via (shortened) WVO procedure or report
Quality of return water:	< 50 mg per liter undissolved constituents > 5 mg O ₂ per liter

Kurstjens is certified based on the SIKB BRL 7000, protocol 7003 for the execution of water remediation.

Kurstjens is a member of the Vereniging van Waterbouwers in Kust- en Oeverwerken (VBKO)



For more information:

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Dredging of the Benschopperwetering in Polsbroek

Freek Visser, project leader at the Sector Waterbeheer HDSR in Houten. The contamination of the dredged material in the Benschopperwetering was limited to the presence of PAK (26,000 m³ class 3-4). Previous experience with transit depots demonstrated that after maturation the ground is reusable as a category 1 ground. A method was thus required to quickly dewater the silt on-site. We opted for a belt filter press. All dewatered particles were AP-04 approved. All particles could be reused and were applied in the region. This working method completely met our high expectations.



Dredging of Warande in Helmond

Remco Ter Horst, project leader at Niebeek Milieumanagement in Leusden. Kurstjens procured the open tender for this dredging work by offering the lowest price. Kurstjens surprised us by wanting to execute the work using a belt filter press. They treated a total of 5,000 m³ class 2-4 sandy dredged sludge in this installation and only 35% was dumped. The system could be applied to a small area and therefore didn't disturb the surrounding areas. We, as executive managers, were pleasantly surprised by the technical possibilities and advantages of this dredging method.



Dredging of Rietkreek in Nieuw-Vossemeer

Robert Glebbeek, team leader at Water en Bodem Tauw in Eindhoven. We established performance specifications for the tender (UAV-GC) for the Brabant's Delta Water Board and supervised its execution. Kurstjens applied with, what was to us, a new drainage method. The working plan was considered to be the best. Relevant factors were the minimal transport operations and a limited chance of disturbance and damage to the existing natural features. Particular to this method was that after dewatering the dredged material, ca. 8,000 m³ class 0-2, could be applied directly to the adjacent agricultural land.



Dredging the City Canals in Ravenstein

The client, Aa and Maas Water Board, desired a great amount of freedom for the potential contractors. They chose for an innovative method of tendering (Design and Construct). Based on both best price and best design, Kurstjens got the assignment to remove 18,400 m³ class 2-4+ dredging material. The work was executed by Kurstjens using a number of belt filter presses. The Water Board was extremely satisfied with the application of this technique. Bart Groeneveld, employer at the city's water management, expects that in the future more water managers will be open to this type of exceptional drainage technique.