

RIJNWAARDEN

WAQUA Simulations reshaped river and floodplain layouts

Directly after entering the Netherlands, the river Rhine branches off into the river Waal and the Pannerdensch Channel. Within the scope of the 'Room for the River' policy, a number of layout reshaping variants have been designed for the floodplain areas at the Bijland and the Lobberdensche Waard near the city of Pannerden. The objective of these variants was a good mix between recreation, nature and some small industrial centres.

Svašek Hydraulics has given insight into the effects of the various layout variants of the floodplains on the water levels, flow rates and the flow distribution between the Waal and the Pannerdensch Channel. For this purpose the 2D numerical water movement model WAQUA was used.

In the WAQUA model, attention was paid to the effect of different types of vegetation and buildings (varying the roughness value). Variants have also been calculated, with new dykes and high-water refuge locations for the cattle.

CLIENT

Rijksinstituut voor Integraal
Zoetwaterbeheer en
Afvalwaterbehandeling (RIZA).

LOCATION

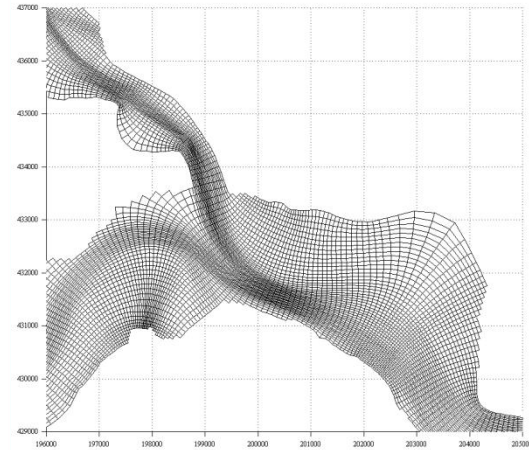
Lobberdensche Waard

DATE

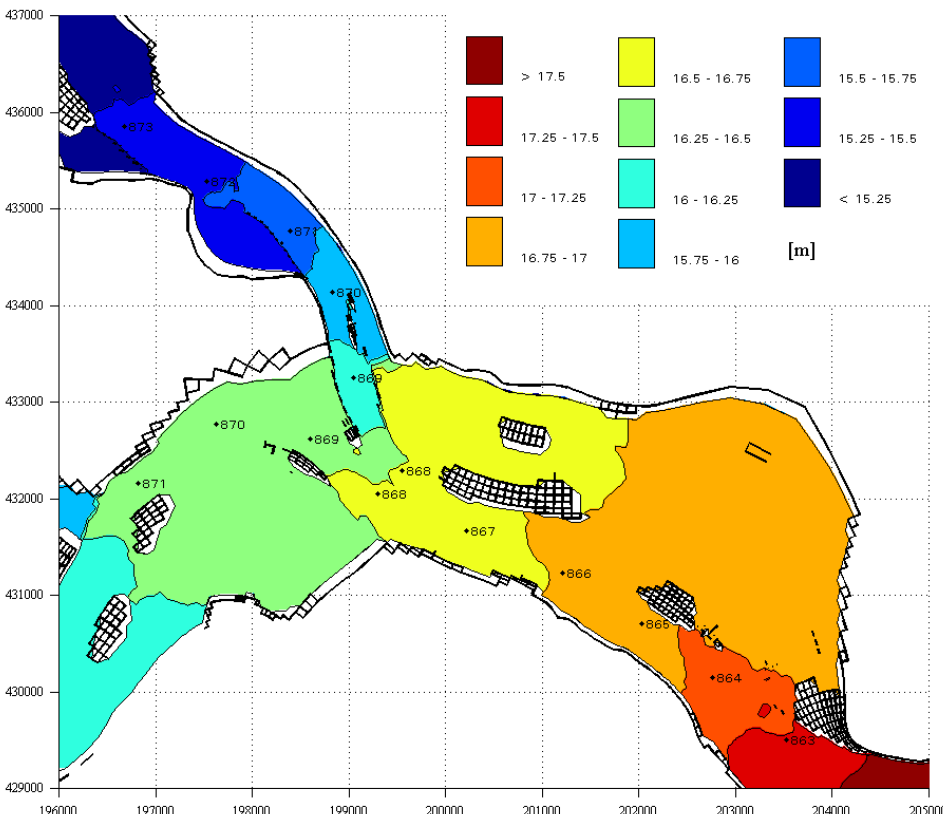
2000 – 2002

SERVICES

WAQUA simulations of reshaping
variants for river and floodplains.



waterstand [m] t.o.v. NAP



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