



Marnewaard Disaster Management Exercise

On April 14 and 15 we will conduct **field exercises at our Marnewaard test site**, and we would like to invite you to join us. These exercise days are part of the international **Bonsai project**.

During these days, we will focus on three topics:

- Mobile barriers
- Anchoring pins / soil staples
- Closing sand boils

Please find the location of the test site by following this link: [location Marnewaard test site](#)

We realize that the location may be somewhat remote for many water managers. However, if you see it as an opportunity to learn and gain practical experience, it is definitely worth the trip.

We would therefore like to invite interested colleagues to participate and observe. It will be a great opportunity to learn in a unique environment and gain experience with an interesting test basin.

If you are interested in joining or would like more information, please send an email to the address at the bottom of this message.

Program

The program on April 14 and 15 will be largely similar. On Wednesday, the 15th we will especially welcome our **non-Dutch-speaking international colleagues**. We will ensure that explanations are provided in English so that everyone can follow the activities.

- We will start promptly at 8:30 a.m. at the barracks.
- Around 3:00 p.m. we will clean up together.
- Lunch, as well as coffee and tea, will be provided. A portable toilet will also be available in the field.

Activities

- In the morning, we will construct various **mobile barriers** in a “dry” basin. We will test the Haawal barrier, the Buitink barrier, and the Tube barrier, and we will also see what can be achieved using ordinary wooden pallets.
- We will install and test various types of **anchoring pins and soil staples** to fix different types of geotextile and foil in place.
- Next, we will fill part of the basin with water to see how the mobile barriers and anchoring pins perform. This will likely coincide with lunchtime.
- A **man-made piping device (sand boil)** will be installed next to the drainage well



and connected to a small pump. This will allow us to simulate a sand boil and test different methods to close it, such as sandbags, a “wellenhoed,” a well mattress, and a new concept from Buitink.

- Finally, we will tidy up together, which is also part of the training.

The working group consists of:

Wouter Maat, Lennaert Zonneveld, Wijnand Evers, Frank Jansen, Johan Merkx, Anco van der Heuvel, Marc Balemans, Luuk Vergeldt, Cock Vermeulen, and Marian Booltink.

We hope you will be able to participate. If you register, you will receive additional information.

Join us!

Please send an email to: marian.booltink@hdsr.nl

