

# **Dam renovation** »System TERRA-MIX«<sup>TM</sup>

**\_Building site  
report**

- \_Realized: **July - October 2009**
- \_Building Project: **High-Water Protection, Kamp**
- \_Awarding Authority: **NÖ Local Government**
- \_Length: **4800m**



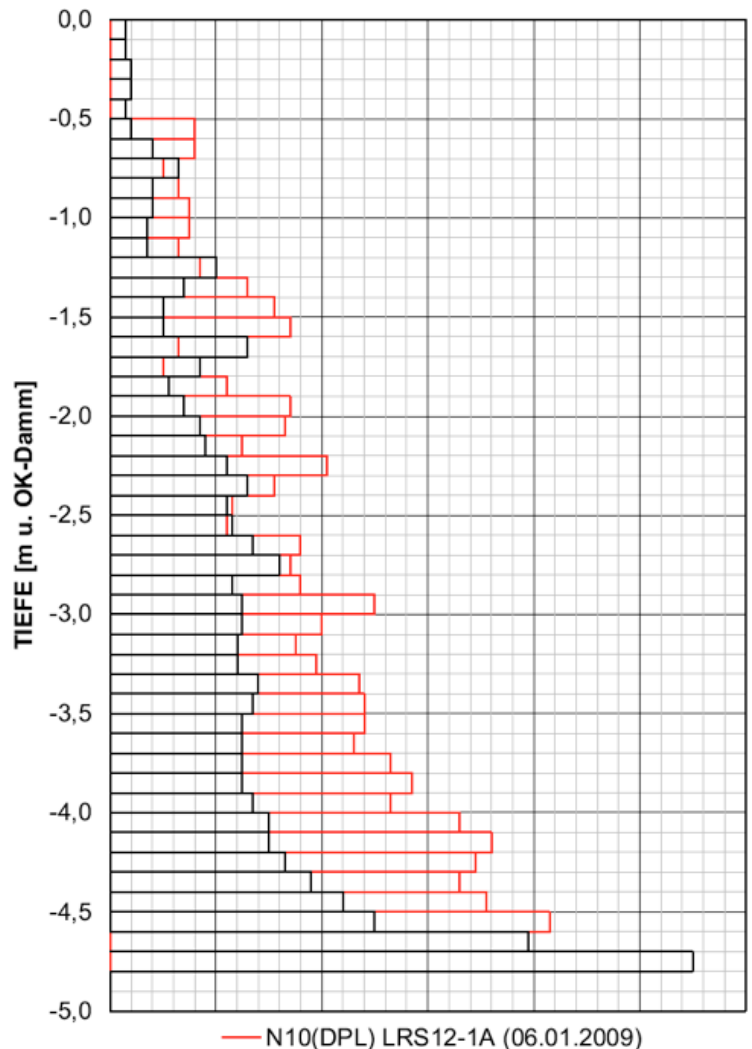
## \_Building site report

### Assignment:

The 60 year old dam was to be renovated by reducing the porosity and by closing the cavities created over time by animals. Three methods were verified – vibro flotation, vibro stuff flotation columns and Impulse Compaction.

### Solution:

Due to its technical and economic advantages it was decided to use Impulse Compaction. A row of compaction columns in close proximity to each other were created through a specific sequence of compactations. This without displacing the dam crest.



### Results:

By means of the Impulse Compaction the complete dam could be renovated and had its porosity and permeability reduced all the way down to the in-situ layer of gravel. Through the volume reduction the dam experienced at the same time an increase in its load carrying capacity and stability, further leading to a reduction of the danger of erosion.

