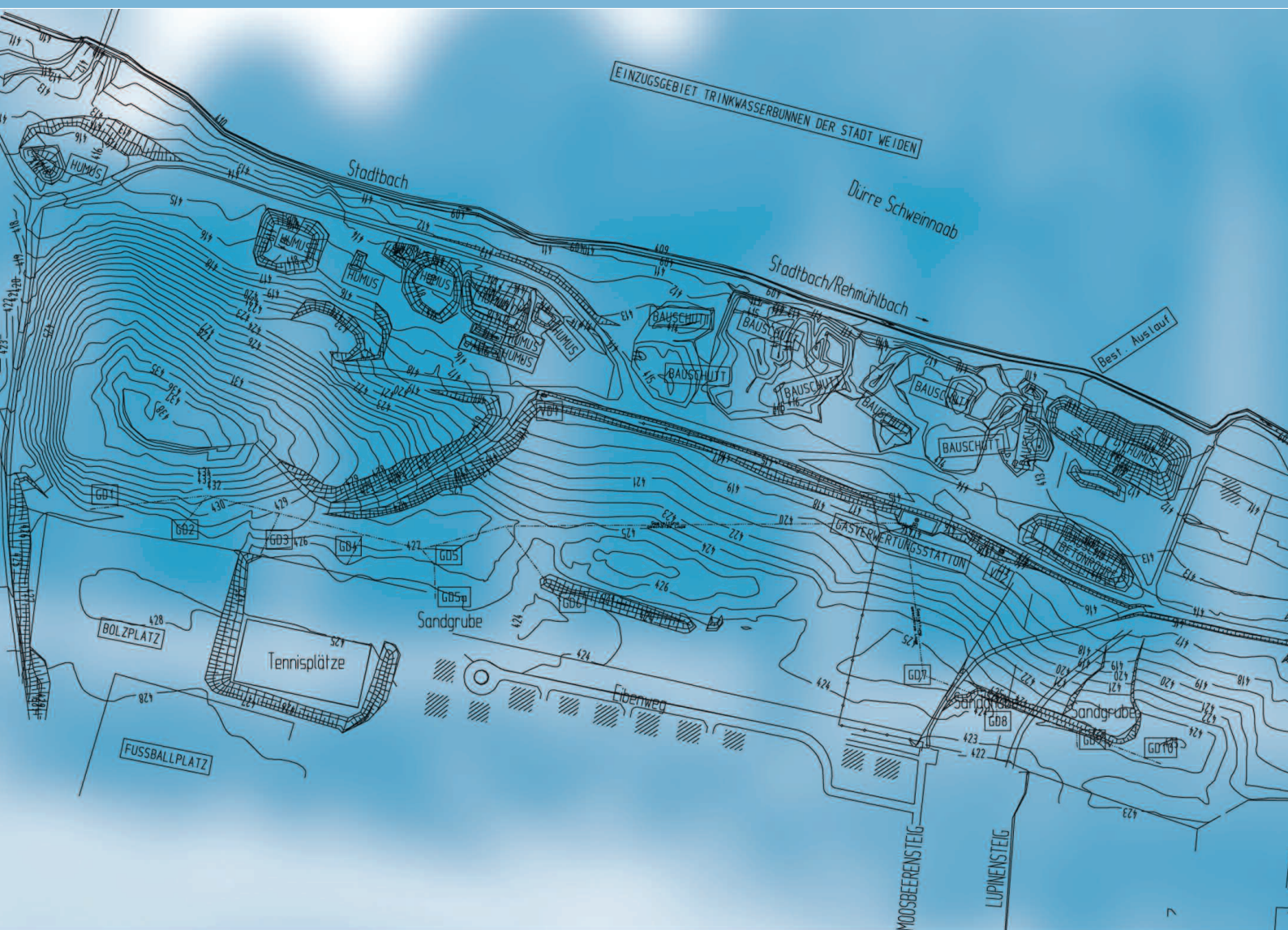


**Info**  
**Landfill safety and  
reclamation design**

**Landfill safety and reclamation design**

EXAMPLE LANDFILL WEIDEN WEST



LANDFILL SAFETY AND RECLAMATION DESIGN

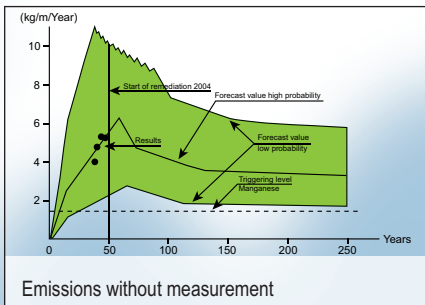
EXAMPLE LANDFILL WEIDEN WEST



Aerial picture of Weiden West

Landfill before reclamation.

What emission have to be expected without any measurement?

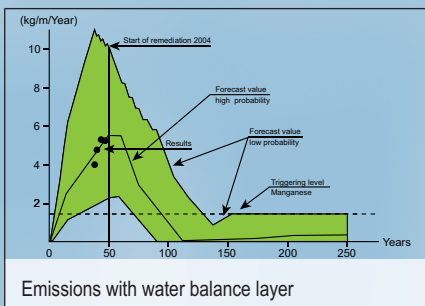


Emissions without measurement

The simulation shows too high emissions, the landfill has to be assured.

What measurement is best according to ecological and economical aspects?

A water balance layer is the best measurement.



Emissions with water balance layer

How will the emissions change and what costs have to be expected?

The officially defined limits were undercut. Costs are about 60% of a reclamation design according to TA Siedlungsabfall.



Landfill under construction

How is the given quality of the water balance layer assured?

- Selection and procurement of suitable soil
- Selection of deep-rooting trees and bushes
- No compaction while construction
- Monitoring the storage density according to  $DIN\ 4220 \leq Ld2\ to\ Ld3$



Landfill after reclamation

When will the end of the aftercare be declared?

A landfill is the biggest lysimeter of the world.

The evaporation capacity is measured and compared to the approval specifications. Then an application for the termination of aftercare is proposed.

Calculated was the time slot from 2014 to 2021.