

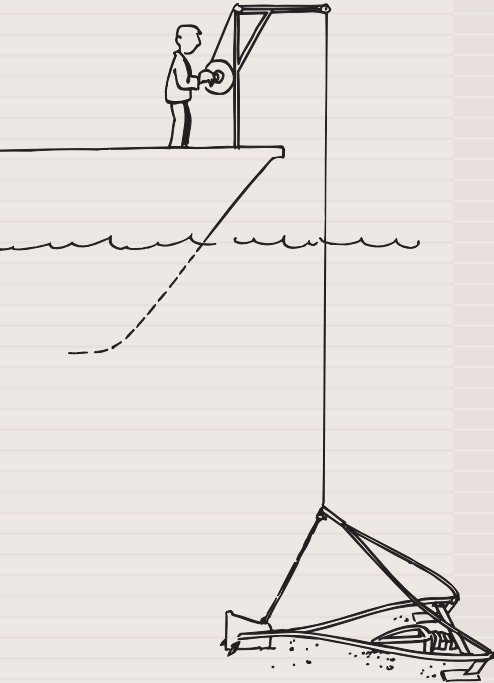


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SAMPLERS FOR SUSPENDED SEDIMENT

P1.42

The empty sampler is placed on the river bottom using a hand winch.



04.32 Bed-load transport meter Arnhem type

This sampler is used to measure bed-load of coarse sand and fine gravel in rivers and other water-courses.

The streamlined sampler is mounted in a frame and consists of a mouth followed by a basket of fine wire meshing (width of the mesh 300 μ).

The sharp decrease of the velocity in the wide sampling chambers causes the sediment material to settle there.

A tail fin mounted on the frame keeps the sampler in up-stream direction.

The results of the measurements are influenced by the shape of the bed (ridges, dunes, flat beds, etc.).

For a successful measurement knowledge of the relief of the bed is essential. The sampler can be discharged on board using the sample trough.

The set comprises: the sampler, the bed-load transport meter frame with stabilising tail fin and lever and the sample trough.

BENEFITS

04.32 type Arnhem

- Easy dismantling with a hand winch from a bridge or boat
- Tail fin automatically positions bedload sampler in an up stream direction
- Discharging sample trough at an ergonomically working height
- One person can operate this system



Bed load transport meter, Arnhem type