

# Stone Reclaim Slurry Measurement

## The Challenge

A customer in England manufactures stone recovery plants for the quarrying industry. The stones are placed in a container filled with water, which is stirred slowly. All the dirt is removed from the stones. The stones are then sent again as building material. The dirt in the water settles as mud at the bottom of the tank.

The application requires the measurement of the sludge level at the bottom of the tank. From a certain height, the mud is pumped out.

The customer had already tried a radar and an ultrasonic system, but both were unsuccessful due to the high solids content in the water and the movement of the water.

## Our Solution

The Nucleo 180000 was used and proved to be a successful product for this application. The advantage that the Nucleo has over other technologies used was as follows. The sensing weight is not affected by the water movement. It moves through the water surface to the mud layer and back into the surrounding liquid. The sensing weight of the sensor can be adjusted to the viscosity of the slurry. An electromechanical, reliable and easy-to-use system for measuring the sludge level in the water tank.



## Products



### N80 3300 Rope Version

#### Interface Measurement

- Suitable for the continuous level measurement of sludge and solids in liquids.
- Continuously reliable measurement results.
- Flange mounting.
- Measuring range up to 30m.
- Sensor with improved corrosion resistance for chemical and salt applications.
- Sensitivity adjustable depending on sediment density.