

INDUSTRY: WASTE WATER

PRODUCT: WASTE WATER SLUDGE

APPLICATION: Measure the % Total Solids of a Waste Water Sludge:

1. As it pumped from the Primary Settling Tank.
2. As it is pumped from a Storage Pond.
3. As it is pumped to an Incinerator.

DESCRIPTION: These are Continuous Processes with our system being used for Closed Loop Control and Visual Monitoring.

1. Most of the Waste Water collected at a large municipal plant ends up in a Primary Settling Tank. The customer wants to measure and control the %Total Solids of Sludge as it leaves these Primary Tanks.
2. After the Sludge has been processed, it is either put into Storage or Incinerated.
3. The Customer wants to measure the %Total Solids of the Sludge as it is pumped from a storage pond. This Sludge is spread on some sort of field.
4. The Customer wants to measure the %Total Solids of the Sludge as it is pumped to an Incinerator. This measurement is only possible if the Sludge is in a pipe.

BENEFITS:

COST SAVINGS By controlling the % Total Solids of the Sludge, the Customer will save money. They will save money because the Customer:

1. Will use less Polymer Solution. Polymers are expensive. These polymers are used to cause Sludge Solids to settle to the bottom of the Primary Settling Tank.
2. Will have a more efficient plant, which will use less energy.
3. Will have an Incineration Process that runs more efficiently
4. Will put a more exact amount of Sludge Solids on whatever field is being used to spread the Sludge on. This more efficient operation will use less energy and take less time.

REPEATABILITY: +/- 0.3 % is possible with a very good Calibration Curve.

MEASURING RANGE: 4% to 5% Total Solids in the Primary Sludge is Typical.
20% to 30% Total Solids in the De Watered Sludge is typical.

HK EQUIPMENT: HK1-M IN LINE WITH A SIX INCH TEFLON LINED SPOOL PIECE

SLUDGE TREATMENT PROCESS

