



## *Leachate Measurement at Landfills*

Leachate is the liquid that naturally drains down through the landfill waste levels collecting any dissolved or suspended materials as it passes through the ground. It is a naturally occurring event that must be accounted for, captured, and treated as it is a pollutant. It is the responsibility of the landfill operator to insure that this liquid makes it to a safe holding area prior to being treated or discharged.

Thermal Instrument manufactures a mass flow meter that can accurately and dependably measure the leachate flow at landfill operations. Thermal Instrument has been measuring liquids with mass flow meter technology for more than 50 years. We offer a tested solution for the measurement of leachate flow.

A large waste and environmental service company located in Tullytown, PA, currently processes upwards of 10,000 tons of trash per day at this site. They were looking for an alternative flow measurement instrument for the leachate liquid flow.



They needed a meter that could be easily installed into a 4" SDR11 line that could measure up to 400 GPM of leachate flow. The specific location chosen is fed by 13 well heads moving leachate to a collection tank where it can be pumped out and processed.

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Thermal Instrument proposed a solution utilizing their insertion probe style mass flow meter. The flow meter provides the customer with Flow and Totalized Flow information.



Thermal Instrument is utilizing our base model 62-9 single piece insertion probe at this location. The meter has a protective polymer coating applied to the

sensor area to further prevent buildup of contaminants on the probe.

Advantages of using a Thermal Instrument Insertion Probe Flow Meter:

- Rugged Construction – 316 SS with available protective coating
- Easy Installation – ¾" MNPT Packing Gland
- Installed Back up Sensors for inherent redundancy
- Sensors are internal and never come into direct contact with passing fluid
- Flow and Total Flow monitored
- 4-20mA output to data recorders, PLC's etc.
- High Turndown Accuracy – 100:1
- Easy to clean and maintain

**Contact us or one of our sales partners for more information.**

