

## A Study of Potential Groundwater Contamination

### Abstract

A sensitive study of potential groundwater contamination from a leaking underground petroleum tank prompted the use of Low Flow sampling to prove the effectiveness of a costly remediation strategy.

### Equipment Used

Troll 9500, Flow Sense software, Rugged Reader and GeoTech Bladder Pump.

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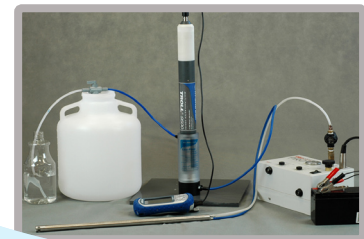
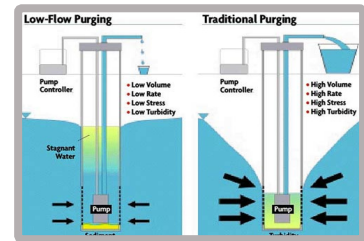


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# A Study of Potential Groundwater Contamination

## Background

Contaminated leaks from underground storage tanks are not an uncommon problem in groundwater and remediation circles.

Injection of oxygen into the groundwater in a process known as bioremediation is an effective but costly method of remediation in these circumstances.

However such costs need to be justified and therefore ongoing monitoring of the contaminant plumes need to be carried out.

This justification needs to be thorough and be able to stand up to scrutiny from a variety of interested parties.



fig2. The Low Flow Sampling System.

Once the readings have fallen within the user selectable stabilisation criteria, all of the data (inc cal reports for individual sensors) is saved and can be downloaded directly to a user designed report template – eliminating the need for paper records at any point

All of the user information is stored on the report and the raw readings and data cannot be altered. The Flow Sense software provides a unique security and integrity vital to ensuring that the results of such sensitive remediation projects remain impartial and free from alteration.

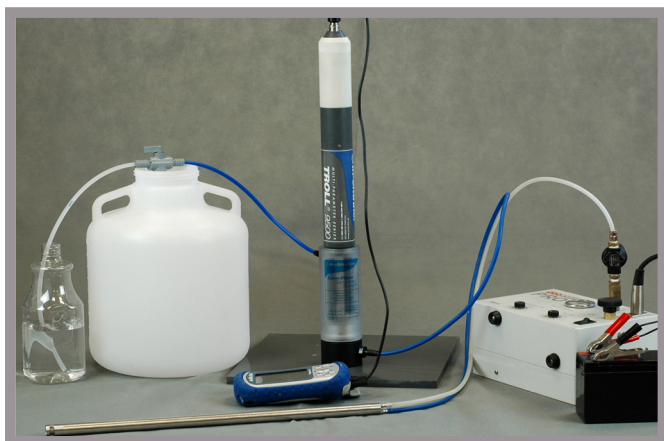


fig1. The Low Flow Sampling Kit.

## The Solution

Low Flow sampling using In-Situ's trademark Flow Sense software provides a traceable and accountable method of groundwater sampling.

By inputting the well information (OD, Depth etc) and flow rates the Flow Sense Software will set a sampling rate and take readings automatically from the Troll 9500.



fig3. The Rugged Reader and Troll 9500.