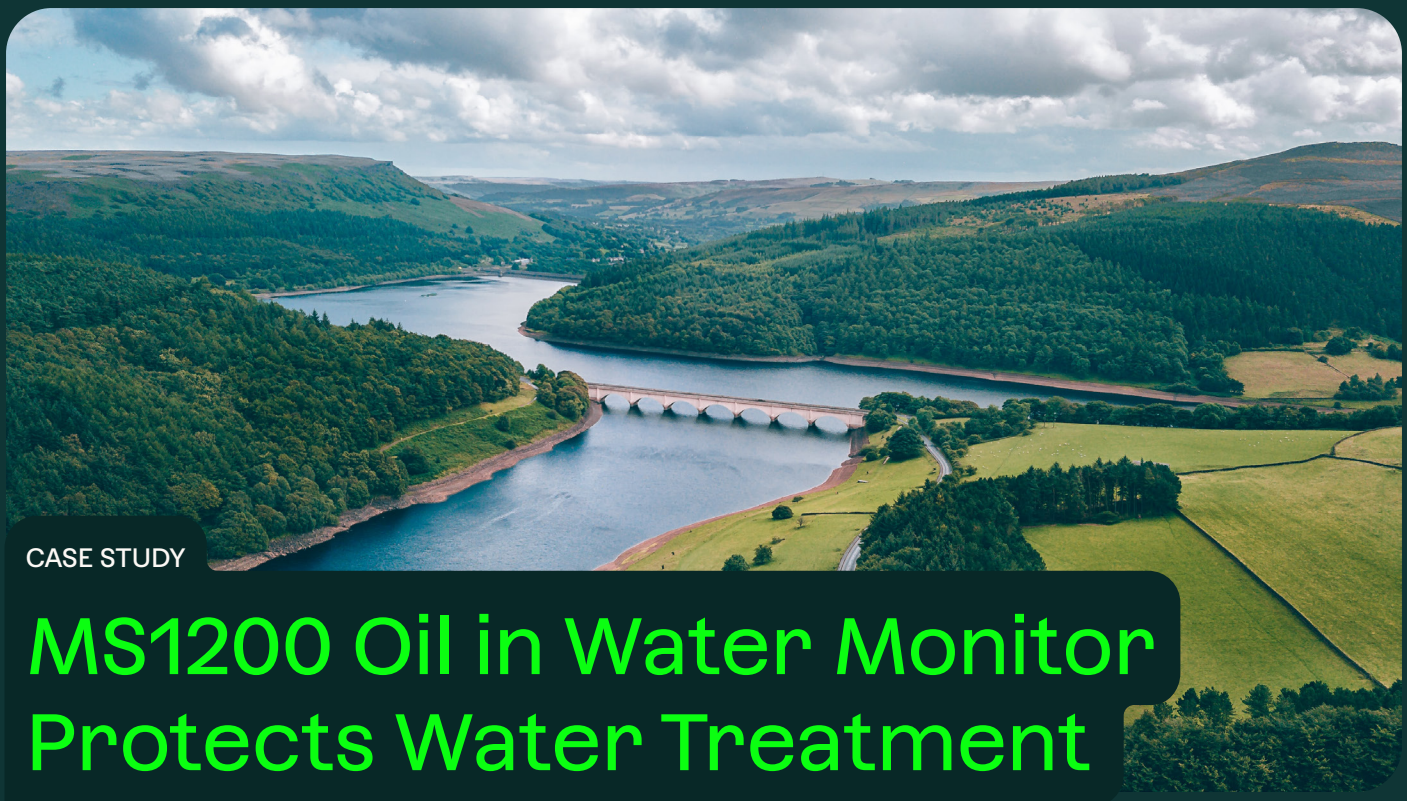
SENSING EXCELLENCE

Multisensor



CASE STUDY

# MS1200 Oil in Water Monitor Protects Water Treatment Plant from Spill

Application Dossier: No. XII

Application

# MS1200 Oil in Water Monitor Protects Water Treatment Plant from Spill

Product

MS1200 – Standard version with 4-20 mA output, sampling system, alarm, and fault relays

**MS1200**
**Oil in Water Monitor**


## Application

MS1200 Oil in Water Monitor Protects Water Treatment Plant from Spill.

## Customer

Water Company, North of England.

## Full Story

In November 2018, a Multisensor MS1200 was responsible for saving a water treatment plant in the UK from the disastrous consequences of a Kerosene spill entering the works.

The monitor, installed in October 2014, is located at an intake from a canal which is used to serve a treatment works a few miles away.

The original spillage was from dumped oil. The oil entered a local water course and then travelled downstream to the canal. After entering the canal, the oil then travelled a further 3.5 km, undetected, until it reached the intake at 20:30 approximately on 11th November 2018.

The MS1200 is connected directly to a bank of relays which switched off the pumps.

The result of this was that although the intake and its sump, from which the water is drawn needed to be cleaned, causing the intake to be out of action, neither the pipeline to the treatment works, not the works itself was damaged by the incident.

Multisensor is now working with the customer to further improve the installation during the time the intake is closed for a clean-up.

**MS1200 installed at the intake.**

Two further systems will be ordered by the customer in 2019 to upgrade protection of their system.
The response of the system is shown below. The level would have continued to rise had the pumps not been turned off quickly.

## Did you know?

Hundreds of sites all over the world use the MS1200 as an early warning system to detect pollution events at their intakes. Volatile Organic Compounds (VOCs) are excellent indicators for detecting pollution because they are often byproducts of industrial processes, chemical manufacturing, and the use of organic solvents. Their presence in water or air can signal contamination from activities such as fuel spills, industrial discharge, or improper waste disposal. Measuring VOCs provides a comprehensive snapshot of pollution, as they are often associated with other hazardous compounds. Their detection enables timely intervention to mitigate environmental damage, protect public health, and ensure compliance with regulatory standards.

## Why Multisensor?

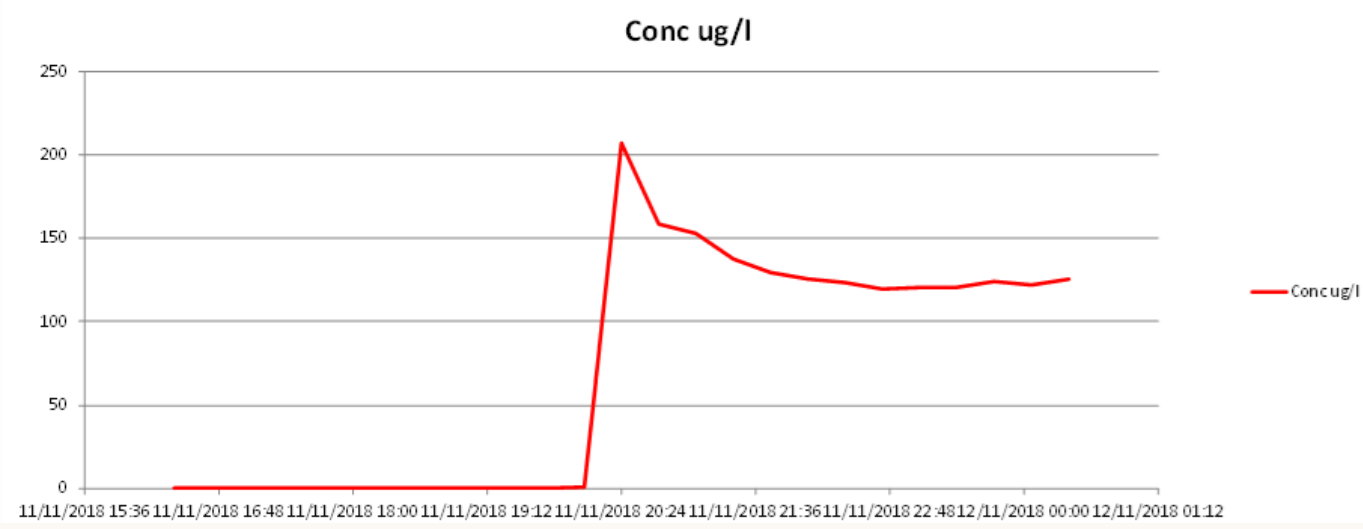
The customer needed a reliable way to measure hydrocarbons in a canal with various sources of contamination. The MS1200 provided the most comprehensive information.

Multisensor

## For more information

Visit: www.multisensor.co.uk
Contact: info@multisensor.co.uk

Front Image Credit: matthew-feeney-75IV0_EFh0c-unsplash




**Some data plotted from an event in 2018, showing a substantial reading of VOCs.**

## HEAD OFFICE
## UNITED KINGDOM

**Multisensor Systems Ltd.**
Alexandra Court
Carrs Road
Cheadle
SK8 2JY
United Kingdom

T: +44 (0)161 491 5600
E: info@multisensor.co.uk

Multisensor



Multisensor Systems is a developer and supplier of Water and Gas Analysers specialising in oil in water and hydrocarbon analysers, oil in water detectors, VOC monitors and THM analysers based in the United Kingdom.



Multisensor Systems Ltd., Alexandra Court, Carrs Road, Cheadle, SK8 2JY, United Kingdom

**CHANGELOG**

MSS DOCUMENT CHANGE RECORD
Document Ref 1-000197

| Date | Version | Changed By | Checked By | ECN |
|---|---|---|---|---|
| 26/02/2025 | 1.0 | GO | LR | 0225-06 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |