



CASE STUDY

Monitoring of a river intake in Virginia for pollution events

Application Dossier: No. XIX

Application

Monitoring of a river intake in Virginia for pollution events

Product

MS1200 with touchscreen and condensation trap, 4-20 mA output.

MS1200

Oil in Water Monitor



Application

Monitoring the river intake to protect the WTP from pollution events.

Customer

Municipal Water Plant, US.

Problem

General pollution and untreated industrial effluents were affecting the plant operation and potentially the quality of finished water.

Product

MS1200 with touchscreen and condensation trap, 4-20 mA output. The instrument is connected to the customer's SCADA system of the customer.

Installation Facts

In August 2022 Multisensor Systems was contacted by a proactive municipal drinking water treatment plant that was looking for an oil in water monitor.

The WTP has previously suffered from pollution events from unknown sources which meant that VOCs had entered their process, putting at risk the quality of treated water. In order to be proactive and avoid any potential issues, the WTP decided to install the oil in water monitor at their intake.

The instrument is installed in a building at the intake point, 20 minutes away from the WTP and it is validated on a regular basis.



MS1200 Touch installed on a frame; flow regulation at the intake is of paramount importance to avoid flooding of the system.

Did you know?

The US has faced several pollution events where volatile organic compounds (VOCs) contaminated rivers, threatening ecosystems and water supplies. In one incident, a chemical spill from a storage facility leaked into the Potomac River, impacting drinking water for nearby communities. Another event involved runoff from industrial sites entering the Occoquan River during heavy rainfall, causing fish die-offs and ecosystem disruption.

Public awareness campaigns focus on proper chemical handling and disposal, aiming to prevent pollution at its source.

Despite these actions, challenges persist, particularly with pollution from urban runoff, underscoring the need for continued vigilance and community involvement in protecting Northern Virginia's rivers.

Why Multisensor?

The customer was looking for a reliable way to detect hydrocarbons at the river intake of their water treatment plant.



For more information

Visit: www.multisensor.co.uk

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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.

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CHANGELOG

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