

# Improved and cost-effective water monitoring: it makes sense with Sorbisense™



Improve your water sampling- and analysis testing data. Eurofins delivers worldwide the next generation of passive samplers - Sorbisense - right at your doorstep. We offer the full solution from dedicated field sampling systems and know-how to a wide suite of accredited laboratory tests.

Industrial and agricultural activities as well as urbanization drive the need for high-quality environmental risk assessments in various parts of the water cycle, such as groundwater, drinking water, and surface water. Traditional water sampling techniques are complicated and time-consuming, often making them expensive. Worst of all, they provide either only snap-shots of pollution events or need expensive sampling stations that require infrastructure and maintenance.

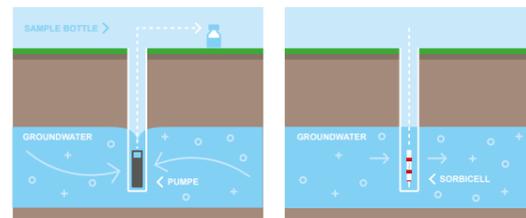
## Method principle

Sorbisense technology provides a cost-effective passive sampling approach, either as supplement or potential replacement of traditional grab sampling. Patented SorbiCell passive sampling cartridges, in combination with Sorbisystems, field installation units, are deployed in the field over a period of typically 1-4 weeks. After recovery, the Sorbicells cartridges are analyzed in the laboratory to provide an accurate average concentration representative for the total sampling period.

The method can be applied in groundwater, surface water (lakes and streams), wastewater and urban run-off waters. Also pressure pipes for drinking water or process water can be easily monitored with special fittings that take a subsample of the total water stream.

## Advantages

- Accumulated averaged concentrations of solutes over longer time periods
- Low start investments and maintenance
- Sample handling safety (no electricity on-site)
- Easy field procedures, saving up to 70 % of the time normally spend in the field
- Sorbisystems adapted to a wide range of water environments
- Compatible with a wide suite of Eurofins accredited laboratory tests.
- Improved sample logistics



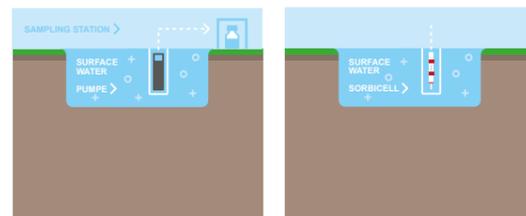
### Current Solution

- Snap-shot sampling
- Inaccurate measuring
- Time consuming
- Expensive
- Electrical pumps

### Sorbicell

- Continuous/long term sampling
- More accurate measuring
- Up to 70% faster deployment
- Reduces project costs with up to 30%
- No electricity/Improved security

## A supplement or replacement for current surface water solutions



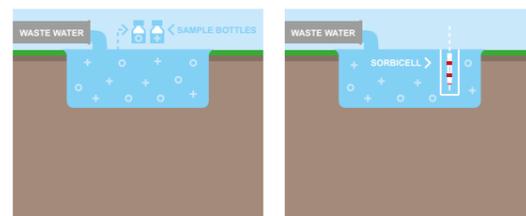
### Current Solution

- Expensive measuring station
- High investment
- 2 week service interval
- Requires electricity
- Automatic sampling station

### Sorbicell

- Continuous/long term sampling
- Low investment
- Up to two months service interval
- No electricity

## A supplement or replacement for current wastewater solutions



### Current Solution

- Snap-shot sampling
- Inaccurate measuring
- Time consuming, many samples
- Expensive

### Sorbicell

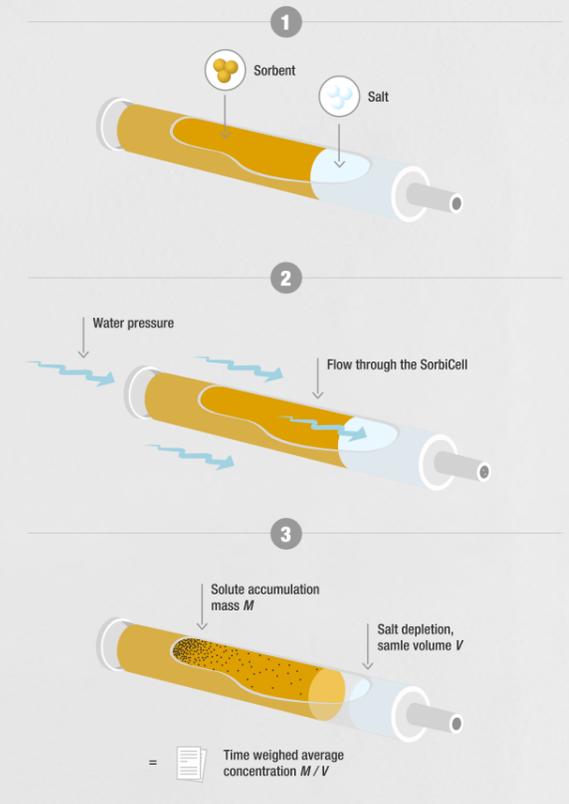
- Continuous/long term sampling
- More accurate measuring
- Easy deployment
- Mounting from terrain

## Products: Core technology

The Sorbisense™ system is made up of a small cartridge, the SorbiCell™, which contains an adsorbent and a tracer salt. SorbiSystems™ allow for the installation in different environments, e.g. groundwater, surface water, or waste-water. Once installed, water passes through the unit at a controlled rate, retaining the accumulation of specific chemical groups and solutes – including e.g. pesticides, nitrate, and volatile organic compounds. These solutes are collected throughout the entire installation period of the sampling cartridge.

As water moves through the unit, the tracer is dissolved proportionally to volume, regardless of the sampling rate. This principle allows a very accurate measurement of the sample volume and solute mass concentration. The cartridge can then easily be removed and sent to a laboratory for analysis.

With Sorbisense™, the lab result data represent an accumulated average concentration rather than a single snapshot, which provides much more consistent results and allows an exact assessment of risks and the effect of remediation.



## Have a look at the Sorbisense film

Visit our website and learn more about Sorbisense environmental monitoring solutions

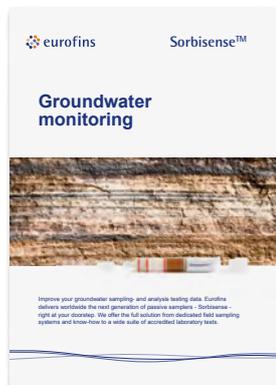
Use this link

[www.sorbisense.com/film](http://www.sorbisense.com/film)



## Contact

Contact us today for a quote or further information about our range of products:  
sorbisense@eurofins.dk  
www.sorbisense.com



Groundwater sampling for risk assessments and monitoring



Monitoring surface water for environmental compliance and source tracking of pollution

Tel. +45 7022 4266

Or contact your local Eurofins Environment laboratory via: [www.eurofins.com](http://www.eurofins.com)



Eurofins A/S  
Smedeskovvej 38,  
8464 Galten  
Denmark  
[www.eurofins.dk](http://www.eurofins.dk)

### About us

Eurofins Scientific is a global market leader in food, environment and pharmaceutical products testing as well as in the fields of agro-science, genomics, and pharmacology. With over 30,000 staff in 400 laboratories across 42 countries, Eurofins offers a portfolio of over 150,000 analytical methods. Sorbisense was founded as a Danish spin-off company from Aarhus University in 2004 by Dr. Hubert de Jonge and Prof. Dr. Gadi Rothenberg. Sorbisense was acquired by Eurofins in 2017, and has its headquarters in Denmark. We offer online and worldwide support for planning your projects and interpretation of the results, as well as advice on a growing number of laboratory tests for SorbiCell.