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Improved and Cost-Effective Water Monitoring

It makes sense with Sorbisense®

Improve your water sampling and analysis with Sorbisense®, the next generation of passive water samplers, delivered globally to your doorstep.

We provide a complete solution, integrating field sampling systems, expert knowledge, and a comprehensive range of accredited laboratory tests.

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Industrial and agricultural activities, as well as urbanisation, 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 either only provide snap-shots of pollution events, or need expensive sampling stations requiring infrastructure and maintenance.

Method principle

Sorbisense® technology offers a cost-effective passive sampling approach, suitable as either a complement to, or potential alternative to, traditional grab sampling methods.

Patented SorbiCell® passive sampling cartridges, used in combination with Sorbisystems field installation units, are deployed in the field for a typical period of 1-4 weeks.

Upon retrieval, the SorbiCell® cartridges are analysed in the laboratory to determine accurate average concentrations, representative of the entire sampling period.

This method can be applied in groundwater, surface water (lakes and streams), wastewater and urban run-off waters. Additionally, pressure pipes carrying drinking water or process water can be easily monitored using special fittings designed to collect a representative subsample of the water stream.

Advantages

- Provides averaged concentrations of solutes over extended sampling periods
- Low initial investment and minimal maintenance requirements
- Sample handling safety; no on-site electricity needed
- Streamlined field procedures, reduce field time up to 70%
- Sorbisystems are adaptable to a diverse range of water environments
- Compatible with a wide range of Eurofins accredited laboratory analysis
- Improved sample logistics

Sampling Methods

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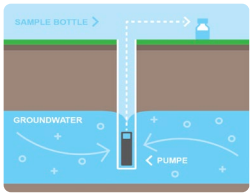
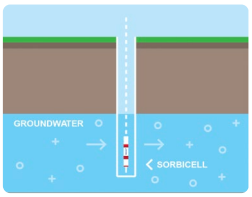


Current solutions

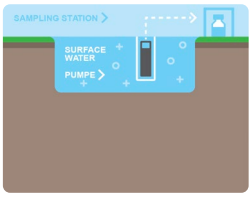
- Snapshot sampling
- Inaccurate measuring
- Time consuming
- Expensive
- Electrical pumps



SorbiCell®

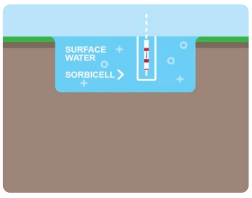
- Continuous/long term sampling
- More accurate measurements
- Up to 70% faster deployment
- Reduces project costs up to 30%
- No electricity/Improved safety

Supplement or replacement for current surface water solutions



Current solutions

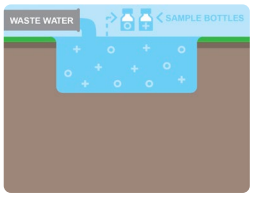
- Expensive measuring station
- High investment
- 2 Week service interval
- Requires electricity
- Automatic sampling station



SorbiCell®

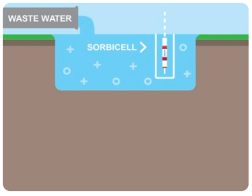
- Continuous/ long term sampling
- Low investment
- Up to two months service interval
- No electricity

Supplement or replacement for current wastewater solutions



Current solutions

- Snapshot sampling
- Time consuming, many samples
- Inaccurate measurements
- Expensive



SorbiCell®

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

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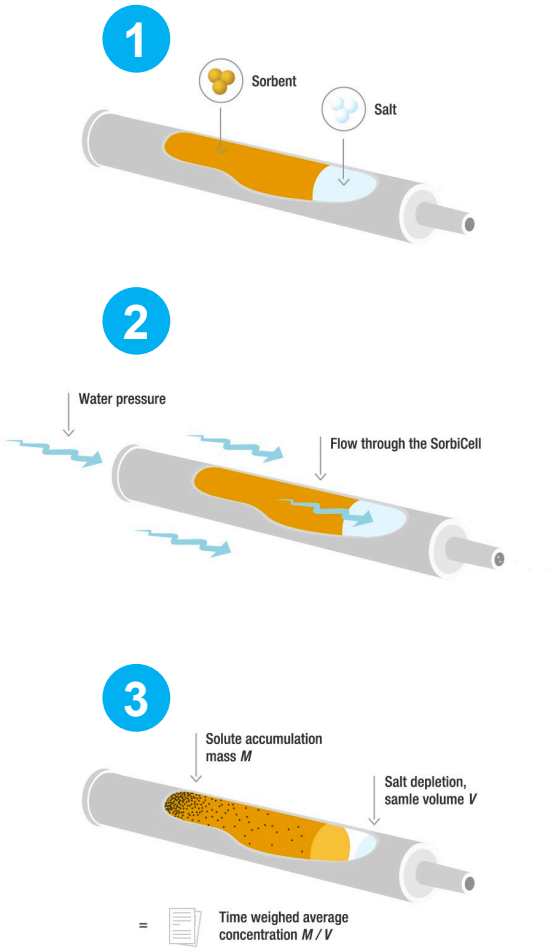
Products
core technology



Sorbisense® technology provides a cost-effective passive sampling approach. Either as supplement to, or potential replacement of, traditional grab sampling techniques.

Sorbisystems allow for installation in different environments, e.g. groundwater, surface water, or waste-water.
Once installed, water passes through the unit at a controlled rate, enabling the accumulation of specific chemical groups and solutes, including options for pesticides, nitrate, PFAS and volatile organic compounds. These solutes are continuously collected over the the entire installation period of the sampling cartridge.

As water passes through the unit, a tracer is proportionally dissolved relative to the water volume, independent of the sampling rate. This principle allows for precise measurement of both the sample volume and solute mass concentration. After the sampling period, the cartridge can be easily removed and sent to a laboratory for analysis.

With Sorbisense®, laboratory results represent an accumulated average concentration rather than a single-point snapshot measurement, providing more consistent and reliable data. This enables accurate risk assessment and evaluation of remediation effectiveness.

Have a look at the Sorbisense® video

Visit our YouTube page and learn more about Sorbisense® environmental monitoring solutions.

- https://youtu.be/TMdTl0hsd4w
- https://youtu.be/6qpfwbJWcGA
- https://youtu.be/qwukBXzJt_U

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Sorbisense®

passive water sampling

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