Applications:

Drinking Water

SEIBOLD-Wasser is first choice in Drinking Water Applications because of non toxic reagents. Installations are in Europe, Russia and Asia. The ability to measure Iron and Manganese in a single **SEIBOLD COMPOSER** lowers the costs initial investment as well as costs for operation.

Industrial Waste Water

The ability to adopt the chemistry and reagents handle complex waste water matrix makes the **SEIBOLD COMPOSER** great choicefor industrial applications. The real continuous mode of operation helps to monitor closest to the process and control needs.

River Water Monitoring

The robust design and high quality parts guarantee long life time and minimum maintenance efforts. Low consumption of reagents and very high reagent stability ensures people free operation. Automated calibration and cleaning steps support this goal.

Measurement Ranges

The measurement range is defined by chemistry and path length of photometer cuevette. **SEIBOLD COMPOSER** measurement range starts in low ppb range up to high ppm range. The automated dilution allows measurement ranges up to 100ppm. Standard measurement range are 1-100ppb; 5-1000ppb; 0,01ppm to 2ppm and 0,05ppm to 5ppm and up to 100ppm diluted.

List of Heavy Metals Parameters:

- **COMPOSER for Aluminium, Al**
- **COMPOSER for Arsenic, As**
- **COMPOSER for Cadmium, Cd**
- **COMPOSER for Chromium, Cr(VI)**
- **COMPOSER for Cobalt, Co**
- **COMPOSER for Copper, Cu**
- **COMPOSER for Iron, Fe**
- **COMPOSER for Lead, Pb**
- **Combined COMPOSER for Iron and Manganese**
- **COMPOSER for Mercury, Hg**
- **COMPOSER for Managense, Mn**
- **COMPOSER for Nickel, Ni**
- **COMPOSER for Zinc, Zn**
- **Combined COMPOSER for Nickel and Zinc**
- **Combined COMPOSER for Copper and Zinc**

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On-Line Analysers for Heavy Metals in Water.



- Green, Non Toxic Chemistry
- Highest Precision and Accuracy
- Robust and Reliable
- Best Price/Performance Ratio Low TCM

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SEIBOLD COMPOSER: leading in on-line Spectrophotometer Technology. [1]

Development and Working Together.



SEIBOLD-Wasser Analyser Series COMPOSER are based on spectrophotometric technology. This measurement technology uses reagents to form a colour complex and the colour is measures by a photometer at specific wave length. The World Health Organization recommends this technology for on-line measurements.

SEIBOLD COMPOSER is a real continuous measurement device (alternatively measurements every 10 to 999 minutes). The system is a flow system, this means all parts are filled all time and this reduces Fouling to absolute minimum.

SEIBOLD-Wasser Development Path:

1. **Chemistry.** To get accurate and reliable results chemistry is most important. Measurement range and resolution is defined by chemistry. More and more important is that chemistry is not dangerous and not toxic for easy handling and low operational risks. SEIBOLD-Wasser developed Green Chemistry for accurate measurements of all heavy metals.

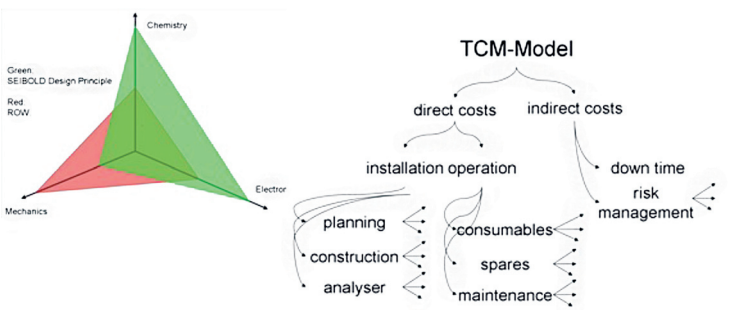
2. **Software.** Software has to calculate the concentration but also track the measurement cycle and complex formation to bring more data into calculation.

3. **Electronics.** Electronics are responsible for lowest noise/signal ratio and robust control of all actors and sensors.

4. **Mechanics.** Mechanics must be of highest quality to insure long term reliable operation and have to fit perfect together. Mechanics are responsible for more than 90% or errors and so you will not find in **SEIBOLD COMPOSER Analysers** any valve or gear boxes on pumps nor other material than PTFE.



Overachieve Clients Expectations.



Quality and Costs of Measurements.

[1] Spectrophotometric Technology is best on-line analysis.
Source: WHO Drinking Water Guidlines, Table 8.4



Development and Working Together.