

ENVIRONMENTAL MONITORING

For high-quality monitoring of environmental parameters
and occupational exposure

TEREA



TEREA supports you in precise monitoring of your environmental parameters and provides you with a trained, experienced, and competent team to perform standardized measurements of the physical environment in natural, industrial, and urban settings. Our services range from data acquisition to result interpretation and cover surface and groundwater, soils and sediments, noise, air, and living organisms.

OUR SERVICES

WATER

Surface water: flow measurements, in-situ physicochemical parameters, and sampling for laboratory analysis

Groundwater: measurement and monitoring of wells, piezometers, and pumping for in-situ or laboratory sampling and analysis

SOILS AND SEDIMENTS

Pollution **diagnostics**, in-situ measurements, and sampling for laboratory analysis

NOISE

- Measurement of sound levels in the environment
- Occupational noise exposure measurements
- Noise mapping

AIR

- Gas and pollutant analysis (NO_x, SO₂, VOC, O₃, HAP, etc.)
- Measurement of alveolar dust (PM_{2.5} and PM₁₀) and inhalable dust

LIVING ORGANISMS

Biological sampling in natural and urban environments to search for pollution markers:

- Animal (fish, small mammals, etc.)
- Plant (fruits, vegetables, wood, etc.)

OCCUPATIONAL EXPOSURE MEASUREMENTS

- Acoustic measurements
- Air quality measurements

For high-quality monitoring of environmental parameters and occupational exposure, we have the appropriate instrumentation to conduct targeted measurements tailored to your industrial and territorial development projects.

We intervene in initial assessments, PGES monitoring (Environmental and Social Management Plan), or specific expertise.

We provide monitoring services from data collection in the field to result interpretation.

P R E S E R V E

O P T I M I Z E

P R O M O T E

Some measurement tools

Weather station

Measured parameters: temperature, rainfall, humidity, atmospheric pressure, wind speed, and direction.

Multiparameter probe

Measured parameters: pH, conductivity, turbidity, dissolved oxygen, temperature, salinity, redox potential, TDS, etc.

Class I sound level meter

Dynamic range from 20 to 137dB, real-time frequency analysis.

Acoustic dosimeter

Noise measurements in the workplace or occupational exposure.

Dust counter

Measured mass concentrations: Total PM, PM₁₀, PM_{2.5}, inhalable dust, and PM₁.

Gilair Plus air sampling pump

Sampling of particles, vapors, gases, and metal vapors.



Field equipment

Augers

Telescopic sampling rods

Hydrostatic pumps

Piezometric probes

Van Veen sediment sampler

Etc.

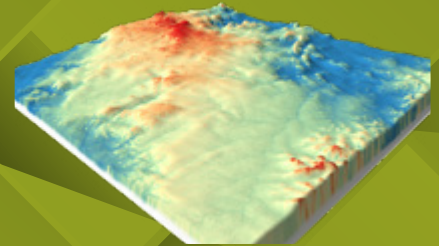


Measurements and sampling can be carried out in natural, industrial, and urban environments. Portable equipment allows for exposure measurements of agents in a professional setting.

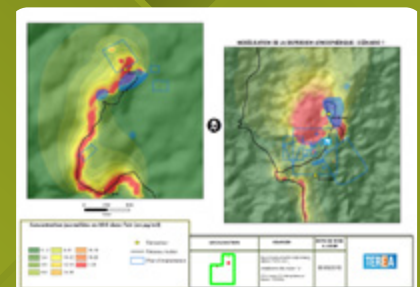
Analysis tools

Our measurements are accompanied by analysis and interpretation of the recorded parameters using powerful analysis, modeling, and mapping software:

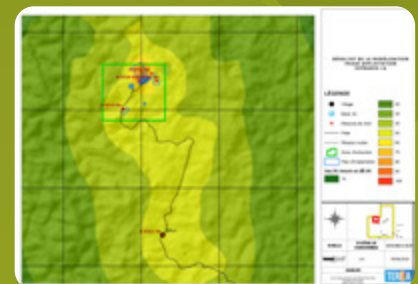
- Geographic Information System
- 3D mapping



- Airdispersive modeling software (Aria Impact® 1.8 - Aria Technology)



- 3D acoustic modeling and prediction software (Cadnaa® DataKustik)



Partner laboratories

TEREA has a network of partner analysis laboratories at the national and international levels, allowing for in-depth analysis of a wide range of parameters according to international quality standards (COFRAC, NF, EN, ISO/IEC 17025 accreditations)

Frameworks

Depending on the projects, our monitoring is carried out according to national or international regulations and standards (EHS guidelines of SFI, WHO, EU norms, etc.). Measurements and sampling can be carried out in natural, industrial, and urban environments. Portable equipment allows for exposure measurements of agents in a professional setting.



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