

SOIL SENSORS

SoilSensor Tech for the Construction Industry

Supporting Low Carbon Technology



Soil is an **opportunity** - not a **problem**
Soil is a **resource** - not a **waste**

COMPLIANT
AFFORDABLE
RAPID
EFFECTIVE

Why Soil Health?

Dimensions of Soil Health:

- Structure
- Biology
- Composition (carbon)
- Contamination (physical, chemical, pollution)

Why Soil Sensor Tech?

Reduce Soil Waste:

- Save money and time on analysis
- Better managed construction site soils
- Quantify your contribution to biodiversity
- Aid your corporate responsibility

How can Soil Sensor Tech help?

Soil Resource Plan:

- Planning stage [spacial variability survey]
- During construction [monitoring soil conditions]
- Post construction [evaluation and monitoring]

What Soil Sensor Tools are available?

Spatial Surveying of Soil Variability:

- Electromagnetic induction scanning [to determine variability in soil]
- Gamma ray scanning (Medusa Radiometrics) [to measure carbon stocks]

Targeted Analysis of Chemical and Physical Soil Composition:

- Near infrared spectroscopy (NeoSpectra) [to measure carbon stocks and soil texture]
- Lateral flow particle size analysis (microBIOMETER) [to measure soil fungi and bacterial health]

Targeted Analysis of Soil Compaction:
(Automated penetrometer)



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