Data Specification Sheet

Select the parameters and certifications you need. We scope a campaign around them.

INCLUDED WITH EVERY PARAMETER

Each dataset is linked to GPS coordinates, timestamps and a documented chain of custody from the moment of sample collection, creating an end-to-end, verifiable, machine-readable record. Results are returned against the European Sustainability Reporting Standards, Taskforce on Nature-related Financial Disclosures, Global Reporting Initiative datapoint each one answers, with the full method-level record available for audit.

Geolocated
Where the sample came from.

Chain of custody
Who held it, and when.

Reporting alignment
Which datapoint it answers.

Certification and compliance

Tick what your site or your regulator requires

Scoped per site

Requirements differ by site, sector and regulator, so we scope them rather than assume them. Tick what applies to you and we will confirm in writing what is already in place, what we certify for your site, and what falls outside scope. Hazardous-area certification is issued for the complete aircraft, and reaching it means every ignition source inside it — motor, battery and controller — is assessed and protected for the zone it will fly in.

AIRCRAFT AND FLIGHT OPERATIONS

Hazardous-area protection, product conformity and airspace authorisation

- ☐ **ATEX Zone 1 or 21**
  Category 2 equipment. Explosive gas or dust likely in normal operation.
- ☐ **ATEX Zone 2 or 22**
  Category 3 equipment. Explosive atmosphere unlikely, or brief if it occurs.
- ☐ **IECEx certification**
  International scheme recognised outside the EU. Often required alongside ATEX.
- ☐ **EU 2019/945 class marking**
  Product class label C0 to C6, carried on top of the CE mark.
- ☐ **EU 2019/947 Specific category**
  Operational authorisation where the flight exceeds Open category limits.
- ☐ **SORA risk assessment**
  Specific Operations Risk Assessment, the route to a Specific category authorisation.
- ☐ **National authority approval**
  Granted by the civil aviation authority of the country your site sits in.
- ☐ **Remote ID and geo-awareness**
  Mandatory under 2019/945 for classes C1, C2, C3, C5 and C6.

SAMPLING AND MEASUREMENT METHOD

How the sample is taken and how the instrument reading is made defensible

- ☐ **ISO 5667**
  Water quality sampling. Programme design, technique, handling and preservation.
- ☐ **ISO 18400**
  Soil quality sampling. Technique selection, strategy and depth.
- ☐ **Traceable calibration**
  Sensor calibration referenced to national measurement standards.
- ☐ **MCERTS**
  UK Environment Agency scheme. Applies to regulated discharge and self-monitoring.

SAMPLING AND MEASUREMENT METHOD (CONTINUED)

- ☐ **US EPA methods**
  Where results must be accepted by a US regulator or parent company.
- ☐ **Client method statement**
  We work to your written procedure instead of the standard above.

LABORATORY ANALYSIS

Applies to any parameter analysed after collection rather than measured in flight

- ☐ **ISO/IEC 17025**
  Competence of testing and calibration laboratories. Our default.
- ☐ **Named laboratory approval**
  You approve the specific laboratory before any sample is sent.
- ☐ **Client laboratory**
  Samples are delivered to your own laboratory. We collect only.
- ☐ **Retained sample split**
  A duplicate is held for independent verification.

REPORTING, DATA AND GOVERNANCE

Where the results have to land, and how the data is held on the way there

- ☐ **ESRS and CSRD**
  European Sustainability Reporting Standards, including E4 on biodiversity.
- ☐ **TNFD**
  Nature-related disclosure. The LEAP approach requires local, site-level data.
- ☐ **SBTN**
  Science-based targets for nature. Voluntary, and location-based from the V2 methods.
- ☐ **GRI**
  Global Reporting Initiative disclosures.
- ☐ **GHG Protocol**
  Corporate accounting and reporting standard for emissions.
- ☐ **EU Soil Monitoring Directive**
  Directive 2025/2360. Soil health against a common list of descriptors.
- ☐ **Natural capital accounting**
  Data prepared as an input to Natural Capital Protocol style accounts.
- ☐ **ISO 27001**
  Information security management for the platform holding your data.
- ☐ **EU data residency and GDPR**
  Data held on EU-based servers. You own it outright.

In-flight — Measured by the drone during the flight — Now

WATER — *surface to 80 m*

- ☐ pH
- ☐ Temperature
- ☐ Dissolved oxygen
- ☐ Conductivity and salinity
- ☐ Turbidity

VEGETATION — *canopy, from the air*

- ☐ Canopy condition (multispectral)
- ☐ Canopy thermal signature

AIR — *at the altitude flown*

- ☐ Particulates (PM2.5, PM10)
- ☐ Gas concentrations (CO2, VOCs)
- ☐ Temperature and humidity

SPACE *whole site*

- [ ] Terrain and elevation mapping
- [ ] Habitat and land cover mapping
- [ ] Geolocated visual imagery
- [ ] Thermal imagery

Lab — Sample collected by the drone, analysed in the laboratory — On request

WATER *sample from any depth to 80 m*

- [ ] Nutrients (nitrate, phosphate)
- [ ] Heavy metals
- [ ] PFAS
- [ ] Hydrocarbons (TPH, PAH, BTEX)
- [ ] eDNA — species presence
- [ ] Microbial community profile
- [ ] Pathogen screening

SOIL *surface to 15 cm*

- [ ] Soil pH
- [ ] Soil organic carbon
- [ ] Nutrients
- [ ] Heavy metals
- [ ] PFAS
- [ ] Hydrocarbons
- [ ] Soil microbiome profile
- [ ] Soil eDNA — invertebrates and fungi

VEGETATION *canopy, to reachable height*

- [ ] Leaf tissue metals
- [ ] Plant species identification (DNA)

For parameters not listed here, please contact us at founders@labgpt.com and we will confirm whether they can be measured in flight or require laboratory analysis. Reachable canopy height and the safe operating envelope are confirmed for your site during mission planning.

YOUR DETAILS

This form can be completed on screen and returned by email.

COMPANY

CONTACT NAME

EMAIL

SITE OR PROJECT

TARGET REPORTING DATE

NOTES