



Report Number: PES_08303048 **Client name:** Alex
Date: 2/24/2026 **Email:** example@email.com

Soil Report

Biological Indicators

Sample Name	Farm	Field	What3Words	Date of Test	Microbial Biomass		Basal Respiration Rate		Soil Organic Matter (LoI)		Water Holding Capacity		Field Water Content	
					Value in µgC/g	PES index	Value in µgCO ₂ -C/g/h	PES index	Value in %	PES index	Value in %	PES index	Value in %	PES index
RepTest1	(AA) Huntingdon	Office	what.three.words	19/02/2026	1002.2	[5]	0.52	[1]	10.73	[4]	34.4	[3]	38.6	[5]



P.E.S. Technologies Limited
 Unit 32, Diss Business Hub, Hopper Way, Diss, United Kingdom, IP22 4GT



Report Number: PES_08303048 **Client name:** Alex
Date: 2/24/2026 **Email:** example@email.com

Soil Texture

Sample Name	Farm	Field	What3Words	Date of Test	Sand	Silt	Clay
					Value in %	Value in %	Value in %
RepTest1	(AA) Huntingdon	Office	what.three.words	19/02/2026	15	46	38



P.E.S. Technologies Limited
Unit 32, Diss Business Hub, Hopper Way, Diss, United Kingdom, IP22 4GT



Report Number: PES_08303048 **Client name:** Alex
Date: 2/24/2026 **Email:** example@email.com

Chemical Indicators

Sample Name	Farm	Field	What3Words	Date of Test	pH		Available Phosphorus		Available Potassium		Available Magnesium	
					Value in $\mu\text{gC/g}_{\text{SOIL}}$	PES index	Value in mg/L	RB209 index	Value in mg/L	RB209 index	Value in mg/L	RB209 index
RepTest1	(AA) Huntingdon	Office	what.three.words	19/02/2026	4.3	N/A	83.4	4	50.2	0	43.6	1



P.E.S. Technologies Limited
Unit 32, Diss Business Hub, Hopper Way, Diss, United Kingdom, IP22 4GT



Report Number: PES_08303048 Client name: Alex
Date: 2/24/2026 Email: example@email.com

Indicator Information

Field water content

Unit: %

The current amount of water in a soil sample, presented as a weight percentage.

PES Indices:



K Available

Unit: mg/l

The portion of total soil potassium that plants can take up and use. Potassium availability is crucial for plant growth.

RB209 Indices:



Mg Available

Unit: mg/l

The portion of total soil magnesium that plants can take up and use. Magnesium availability is crucial for chlorophyll production.

RB209 Indices:



P.E.S. Technologies Limited
Unit 32, Diss Business Hub, Hopper Way, Diss, United Kingdom, IP22 4GT



Report Number: PES_08303048 Client name: Alex
Date: 2/24/2026 Email: example@email.com

Microbial Biomass

Unit: µgC/g

Soil microbial biomass refers to the living microbial population in soil. It plays many important roles in soil processes such as nutrient cycling and plant growth.

PES Indices:



Soil Organic Matter (LoI)

Unit: %

Soil organic matter percentage determined using the loss-on-ignition method. It is an important indicator of soil quality and fertility, and can influence plant growth, nutrient availability, and soil structure.

PES Indices:



P Available

Unit: mg/l

The portion of total soil phosphorus that plants can take up and use. Phosphorus availability is crucial for root growth.

RB209 Indices:



P.E.S. Technologies Limited
Unit 32, Diss Business Hub, Hopper Way, Diss, United Kingdom, IP22 4GT



Report Number: PES_08303048 Client name: Alex
Date: 2/24/2026 Email: example@email.com

pH

Soil pH is a measure of the acidity or alkalinity of the soil. Different plants have different pH requirements and it is important to maintain the optimal pH range for the specific plants being grown.

PES Indices:



Respiration

Flux of CO₂ released from microorganisms in the soil during respiration. It is crucial for understanding soil ecosystems and creating effective management strategies for soil health and agricultural productivity.

PES Indices:



WHC water content

Unit: %

The upper limit of water capacity for a given soil sample, presented as a weight percentage. A higher WHC value for soil denotes better moisture retention, while a lower WHC indicates improved drainage.

PES Indices:



P.E.S. Technologies Limited
Unit 32, Diss Business Hub, Hopper Way, Diss, United Kingdom, IP22 4GT