



Q4888

## **Soil Sampling Packages**

ProHort offers a fully comprehensive soil analysis and sample testing service, which we provide in three different packages, allowing us to tailor the report to your specific requirements as follows:

### **Core Package**

ProHort will supply the soil sampling kit to the customer. The customer shall then follow the guidelines provided by ProHort, in order for them to take their soil sample from the area in question. The completed sample is sent back to ProHort using our courier service, the sample is tested, and the customer is provided with an accurate breakdown of the chemical composition of the soil, in accordance with ISO 9001 and ISO 17025 Standards.

### **Analytical Package**

In addition to our Core service, the Analytical package provides the customer with a full report explaining how the soil analysis results compare to accepted levels. We will also offer our recommendations and any necessary remediation in relation to this.

### **Comprehensive Package**

In addition to our Analytical package, the comprehensive package includes our expert surveyor visiting the customer's property to take the soil sample. While on-site, we will complete a visual assessment of the area and ascertain if there are any visual signs of higher concentration levels, as well as providing the customer with our surveyor's expert opinion on alternative factors which could be contributing to the soil conditions.

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Q4888

## Services to be provided:

Following discussions between Ms. Ayres and Mrs. Mann of ProHort Limited, it is understood that you require a quote for our **Core soil analysis package**, which is to be carried out on the soil at The Parish Hall, Smithy Lane, Great Budworth, Northwich, in order to ascertain any levels of contamination within the soil.

To this end, it is our delight to offer the following service:

### Soil Sample Analysis

Upon acceptance of the quote, ProHort will send the soil sampling kit to the address stated, along with guidelines and quantities needed in order for you to take an adequate sample (you must inform the office team if you require us to send the kit to an alternative address).

Once you have sent this back to our offices in the pre-paid packaging, we will arrange for the samples to be taken to the lab to be tested, which can take up to two weeks for the results to come back.

These tests will show the following contaminants:

Code	Name	Chemical Testing
BSE	Broad Spectrum	P, K, Ca, Mg, S, B, Cu, Fe, Mn, Mo, Zn, Na, CEC, pH,
SOL	Extra Solvita	Lime Req. Organic Matter, C:N Ratio, Sand %, Silt %, Clay %, soil texture classification, Solvita Soil Respiration, Microbial Biomass

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When we have received the results, we will provide you with an accurate breakdown of the chemical composition of the soil, in accordance with ISO 9001 and ISO 17025 Standards.

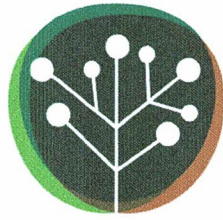
At an additional cost, an Analytical or Comprehensive report can be provided, which will include an explanation of the chemical composition found in the soil during testing and how these results compare to typical contaminant concentrations in soil, also offering our recommendations and any necessary remediation in relation to this.

Please see appendix 1 for all alternative soil sample tests. If it is that you require additional tests, please contact the office and we can amend your quote accordingly.

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# ProHort

HORTICULTURE MANAGED

Q4889

## Services to be provided:

Following discussions between Ms. Ayres and Mrs Mann of ProHort Limited, it is understood that you require a quote for our **Comprehensive soil analysis package**, which is to be carried out on the soil at The Parish Hall, Smithy Lane, Great Budworth, Northwich, in order to ascertain the levels of contamination within the soil.

To this end, it is our delight to offer the following service:

### Soil Sample Analysis

Upon acceptance of the quote, we will arrange for our qualified Expert Horticulturalist, Mr. Harker, to attend the grounds, in order to obtain a soil sample from the above location. While on-site, he will complete a visual assessment of the area and ascertain if there are any visual signs of higher concentration levels, as well as providing you with his expert opinion on any alternative factors which could be contributing to the soil conditions.

Once back at the office, we will arrange for the samples to be taken to the lab to be tested, which can take up to two weeks for the results to come back.

These tests will show the following contaminants:

Code	Name	Chemical Testing
BSE	Broad Spectrum	P, K, Ca, Mg, S, B, Cu, Fe, Mn, Mo, Zn, Na, CEC, pH,
SOL	Extra Solvita	Lime Req. Organic Matter, C:N Ratio, Sand %, Silt %, Clay %, soil texture classification, Solvita Soil Respiration, Microbial Biomass

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When we have received the results, we will provide you with an accurate breakdown of the chemical composition of the soil, in accordance with ISO 9001 and ISO 17025 Standards. We will also provide a full report which will explain how the results compare to accepted soil levels, also offering our recommendations and any necessary remediation in relation to this.

Please see appendix 1 for all alternative soil sample tests. If it is that you require additional tests, please contact the office and we can amend your quote accordingly.

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## Appendix 1

Please see the below all sample options for the soil analysis. As standard, our customers go for the Broad Spectrum (BS), Heavy Metal Contamination (SA8a) or Total Nutrient Content (TNC), although, this will need to be reviewed and specified by yourself.

Please note, if you would like soil testing for waste or landfill (WAC testing) you will need a different type of analysis to the sample list below. Please enquire for further details.

### Soil Analysis

CODE	NAME	PARAMETERS
BS	Broad Spectrum	P, K, Ca, Mg, S, B, Cu, Fe, Mn, Mo, Zn, Na, CEC, pH, Lime Req.
BSE SOL	Broad Spectrum Extra Solvita	P, K, Ca, Mg, S, B, Cu, Fe, Mn, Mo, Zn, Na, CEC, pH, Lime Req. Organic Matter, C:N Ratio, Sand %, Silt %, Clay %, soil texture classification, Solvita Soil Respiration, Microbial Biomass
BSE	Broad Spectrum Extra	P, K, Ca, Mg, S, B, Cu, Fe, Mn, Mo, Zn, Na, CEC, pH, Lime Req. Organic Matter, Sand %, Silt %, Clay %, soil texture classification,
S1	Basic Soil	P, K, Mg, pH, Lime Req.
S1a	Basic Glasshouse Soil	P, K, Mg, pH, E.C., NO <sub>3</sub> , + NH <sub>3</sub> , Lime Req.
S1b	Basic Soil Plus	P, K, S, Mg, pH, B, Cu, Mn, Lime Req.
AHS	Animal Health Soil	P, K, Mg, pH, Ca, S, Na, Mn, Cu, Fe, Zn, Mo, B, Co, I, CEC, Lime Req.
AHSa	Animal Health Soil (Se)	P, K, Mg, pH, Ca, S, Na, Mn, Cu, Fe, Zn, Mo, B, Co, Se, CEC, Lime Req.
TNC	Total Nutrient Content	N, P, K, Ca, Mg, S, Na, Mn, Cu, Fe, Zn, Mo, B, DM
SA8a	Heavy Metal Contamination	Pb, Ni, As, Cd, Cr, Hg, Cu, Zn
SA8b	Heavy Metal for Veg Production	Pb, Ni, As, Cd, Cr, Hg, Cu, Zn, F, Mo, Se
SA10	Soil Mineral Nitrogen	NO <sub>3</sub> , NH <sub>3</sub> + Available N in kg/ha
SA13	Complete Particle Size	Sand %, Silt %, Clay % incl. Sand Fraction and Soil texture classification
SA14	Soil Texture	Sand %, Silt %, Clay % and soil texture classification
SA12	Topsoil to BS3882:2015	P, K, Mg, pH, O.M. EC, Total N, particle size, Cu, Ni, Zn, Ca, CaCO <sub>3</sub> T, C:N, Plastic & Man-made sharps

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SA12a	Subsoil to BS8601:2013	P, K, Mg, pH, O.M. EC, Particle Size, Cu, Ni, Zn, Ca, Na, CaCO <sub>3</sub> T, C:N, Plastic & Man-made sharps
ES	Environmental Soil	pH, Texture, EC, DM, Av N, N, P, K, Mg, Ca, S, Se, Mn, Mo, B, Cu, Zn, Hg, Cr, Cd, As, Ni, Pb

## Additional Tests

The following can be added to any of the above:

OM	Organic Matter
SE	Selenium

## PCN and Soil Pathogens

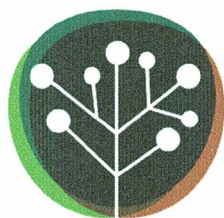
CODE	NAME	PARAMETERS
PCN (200)	Potato Cyst Nematode	Cyst and Egg Counts in 200g
PCN (400)	Potato Cyst Nematode	Cyst and Egg Counts in 400g
PCN (1kg)	Potato Cyst Nematode	Cyst and Egg Counts in 1kg
SP	Speciation	Analysis of 5 eggs or more (in PCN testing)
FLN	FLN	Free Living Nematodes
TRV	TRV	Tobacco Rattle Virus
CR	Club Root	Club Root

## Soil Biology (Microscopy)

CODE	NAME	PARAMETERS
SBB	Soil Biology Basic	Total Bacteria, Total Fungi, and Ratios
SBE	Soil Biology Extra	Total Bacteria, Total Fungi, Active Bacteria, Active Fungi, Hyphal Diameter and Ratios
SBC	Soil Biology Complete	Total Bacteria, Total Fungi, Active Bacteria, Active Fungi, Hyphal Diameter and Ratios, Protozoa (Flagellates, Amoebae, Ciliates)

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## Compost Analysis

CODE	NAME	PARAMETERS
FC	Full Compost (for glasshouse)	P, K, Mg, pH, Ca, Mn, B, Cu, Fe, Zn, S, NO3N, NH3N, EC, Na, Cl, HCO3
S1c	Basic Glasshouse Compost	P, K, Mg, pH, Lime Req. E.C., NO3, + NH3
S1d	Total Nutrient Content Compost	N, P, K, Ca, Mg, S, Na, B, Cu, Fe, Mn, Mo, Zn, DM

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