

Analysis Results (SOIL)

Customer DEMETER
BLANDINGS FM

Distributor DEMETER TECHNOLOGY
5 ST ANDREWS CLOSE
ISLEHAM
CAMBS
CB7 5TB

Sample Ref BLANDINGS

Date Received 16/09/2020 (Date Issued: 25/09/2020)

Sample No E204193

Crop NON STATED

Soil Characteristics	Result	Low	Normal	High			
pH	8.0						
Org. Matter - DUMAS (%)	1.7						
C.E.C. (meq/100g)	10.5						
Soil Respiration (mg/kg)	32						
C:N Ratio	8.5						
Texture Class	SASILO						
Org. Carbon Stock (t/ha)	19.3						
Major Nutrients	Result	0	1	2-	2+	3	4+
Phosphorus (ppm)	28						
Potassium (ppm)	176						
Magnesium (ppm)	46						
Secondary and Micro Nutrients	Result	Deficient		Maintenance		High	
Calcium (ppm)	2423						
Sulphur (ppm)	4						
Sodium (ppm)	12						
Boron (ppm)	2.16						
Copper (ppm)	5.8						
Iron (ppm)	85						
Manganese (ppm)	114						
Molybdenum (ppm)	0.02						
Zinc (ppm)	6.6						
Others							
Phosphorus Total (mg/kg)	652.0						

Released by [REDACTED] Laboratory Manager on behalf of Lancrop Laboratories

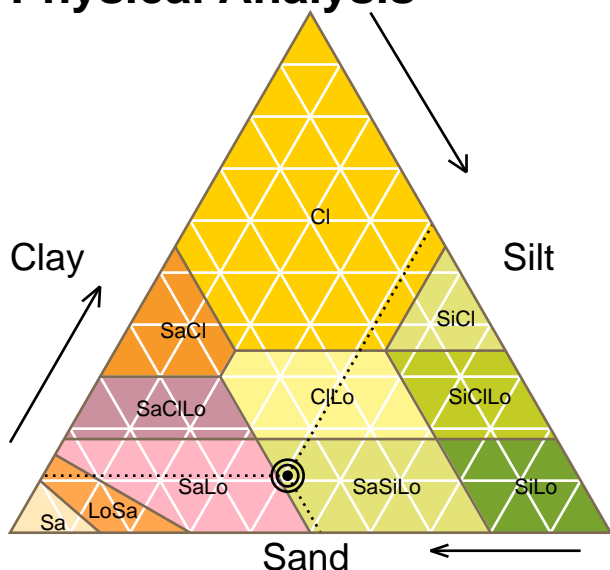
Wellington Road
The Industrial Estate
Pocklington, York, YO42 1DN
Tel: +44 1759 305116

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Physical Analysis



Analysis	Result (%)
Sand	48.30
Silt	40.74
Clay	10.96
Soil Type	SaSiLo Sandy Silt Loam

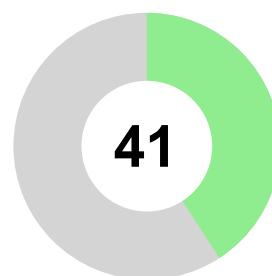
Property	Assessment
Available Water	Low to Medium
Drainage Rate	Rapid
Inherent Fertility	Low to Medium
Potential C.E.C.	Low to Medium
Leaching Risk	High to Moderate
Warming Rate	Rapid

Biological Analysis



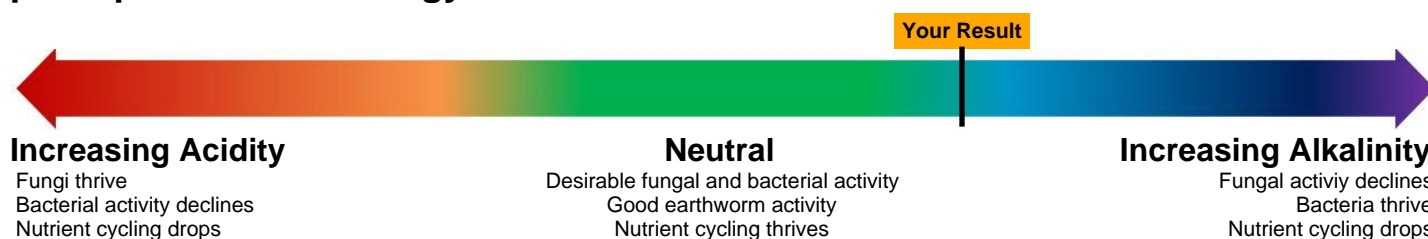
Analysis	Result	Ideal
Solvita Burst CO ₂ -C (ppm)	32	>70
Organic Carbon (%)	1.0	
Total Nitrogen (%)	0.116	
C:N Ratio	8.5	10-12
Calculated Parameters	Result	
Microbial Biomass (mg/kg)	734	
Solvita Potentially Mineralizable Nitrogen (kg N/ha)	21	
Soil Assessment Score	41/100	

Soil Assessment Score



Microbial Biomass and Potentially Mineralizable N are calculated from the Solvita CO₂-C Burst. The Potentially Mineralizable N assumes ideal conditions. Soil Assessment Score is calculated from biological, chemical and physical results.

pH impact on soil biology



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Analysis	Result	Guideline	Comments
pH	8.0	6.5	High. An alkaline environment will reduce the availability of certain nutrients - particularly P, K, B, Co, Cu, Fe, Mn and Zn. An elevated pH will also impact on beneficial soil fungal populations and activity.
Org. Matter - DUMAS (%)	1.7	3.0	Low. Soils with medium to high levels of organic matter would generally be expected to have a good potential fertility and good structure, moisture retention and water infiltration. Investigate soil conditons to establish if soil management practices can improve levels of organic matter.
C.E.C. (meq/100g)	10.5	15.0	Cation Exchange Capacity indicates a slightly low nutrient holding ability - soil applied nutrients could be readily leached. Where possible foliar applied nutrients should be recommended.
Soil Respiration (mg/kg)	32	70	Slightly low aerobic microbial activity and mineralisation potential. Further investigation of soil conditons is recommended to establish if soil management practices can improve biological fertility.
C:N Ratio	8.5	10.0	Low. A low C:N ratio in the soil encourages microbial activity and the amount and rate of nutrients made available to the plants through mineralisation. A ratio of 8 - 10 indicates the potential for a rapid decomposition of organic residue and a low retention of applied organic materials.
Texture Class	SASILO		
Org. Carbon Stock (t/ha)	19.3		
Phosphorus (ppm)	28	26	(Index 3.1)
Potassium (ppm)	176	241	(Index 2.5)
Magnesium (ppm)	46	100	(Index 1.8)
Calcium (ppm)	2423	1600	
Sulphur (ppm)	4	10	
Sodium (ppm)	12	90	
Boron (ppm)	2.16	2.10	
Copper (ppm)	5.8	2.1	
Iron (ppm)	85	50	
Manganese (ppm)	114	110	

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Sample No	E204193		
Crop	NON STATED		

Analysis	Result	Guideline	Comments
Molybdenum (ppm)	0.02	0.20	
Zinc (ppm)	6.6	4.1	
Phosphorus Total (mg/kg)	652.0		

Additional Comments

Carbon Stock (t/ha) has been calculated with assumed bulk density of 1.3 g/cm³ (if an in-lab bulk density has not been performed) and sampling depth of 15 cm.

To recalculate the Carbon Stock using other depths and bulk densities please use this calculation:

Carbon (%) x Sampling Depth (cm) x Bulk Density (g/cm³) = Carbon Stock (t/ha)

E.g. 4.0% x 15cm x 1.3 g/cm³ = 78 t/ha carbon stock.

Where applicable soil applied P,K and pH recommendations are taken from AHDB Nutrient Management Guide (RB209)

Any indicated Lime Requirement assumes a medium textured soil.

Additional technical bulletins are available at [REDACTED].

Please Note

Whilst every care is taken to ensure that the Results from Analysis are as accurate as possible, it is important to note that the analysis relates to the sample received by the laboratory, and is representative only of that sample. No warranty is given by the laboratory that the Results from Analysis relates to any part of a field or growing area not covered by the sample received. It is important to ensure that any soil, leaf, silage or fruitlet sample sent for analysis is representative of the area requiring analysis and that samples are obtained in accordance with established sampling techniques. A leaflet containing instructions on how to take soil, leaf, herbage, silage and fruit samples for analysis is available from the laboratory on request. Uncertainty measurements of results are available on request