ANALYSIS REPORT

Contact : ANALYSIS SERVICES DIRECT
NRM LABORATORIES
COOPERS BRIDGE
BRAZIERS LANE
BRACKNELL
BERKS
Tel. : 01344 886338

R600

Please quote the above code for all enquiries

Client : THOMAS CONTRACTORS AG LTD
GYWNS BARN
LEIGHTON
WELSHPOOL
POWYS
SY21 8LL

Sample Matrix : Agricultural Soil

Laboratory Reference
Card Number 65557/26

Date Received 11-Mar-26
Date Reported 20-Mar-26

SOIL ANALYSIS REPORT

Laboratory Sample Reference	Field Details			Index			mg/l (Available)		
	No.	Name or O.S. Reference with Cropping Details	Soil pH	P	K	Mg	P	K	Mg
354293/26	1	**FIELD 2** *No cropping details given*	**5.8**	**1**	**2-**	**3**	**14.2**	**164**	**119**
354294/26	2	**FIELD 3** *No cropping details given*	**5.8**	**1**	**2-**	**3**	**12.2**	**160**	**123**
354295/26	3	**FIELD 4** *No cropping details given*	**5.6**	**1**	**2-**	**3**	**13.2**	**156**	**127**
354296/26	4	**FIELD 6** *No cropping details given*	**5.6**	**1**	**2-**	**3**	**13.6**	**147**	**126**
354297/26	5	**FIELD 7** *No cropping details given*	**5.8**	**1**	**1**	**3**	**14.2**	**104**	**112**
354298/26	6	**FIELD 8** *No cropping details given*	**6.0**	**1**	**2-**	**3**	**14.6**	**152**	**119**

If general fertiliser and lime recommendations have been requested, these are given on the following sheets.
The analytical methods used are as described in DEFRA Reference Book 427
The index values are determined from the AHDB Fertiliser Recommendations RB209 9th Edition.

Released by *Katie Dunn* On behalf of NRM Date *20/03/26*

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SOIL ANALYSIS REPORT

Laboratory Sample Reference	Field Details			Index			mg/l (Available)		
	No.	Name or O.S. Reference with Cropping Details	Soil pH	P	K	Mg	P	K	Mg
354299/26	7	**FIELD 11** *No cropping details given*	**5.5**	**1**	**2-**	**3**	**14.6**	**126**	**117**
354300/26	8	**FIELD 12** *No cropping details given*	**5.4**	**1**	**2-**	**3**	**13.0**	**126**	**108**
354301/26	9	**FIELD 13** *No cropping details given*	**5.8**	**1**	**2-**	**3**	**13.8**	**127**	**111**
354302/26	10	**FIELD 14** *No cropping details given*	**5.8**	**1**	**2-**	**3**	**15.4**	**165**	**121**

If general fertiliser and lime recommendations have been requested, these are given on the following sheets.
The analytical methods used are as described in DEFRA Reference Book 427
The index values are determined from the AHDB Fertiliser Recommendations RB209 9th Edition.

Released by *Katie Dunn* On behalf of NRM Date *20/03/26*

MICRO NUTRIENT REPORT

DATE **20th March 2026**

SAMPLES FROM **THOMAS CONTRACTORS AG LTD, GYWNS BARN, LEIGHTON**

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Reference: **65557/354293/26** Field Name: **FIELD 2**	**Result**	**(*)**	**Deficient**	**Marginal**	**Target**	**Marginal**	**Excessive**
Sodium (Ammonium Nitrate Extractable) mg/l	11.8	1					
Calcium (Ammonium Nitrate Extractable) mg/l	903.6	2					
Estimated Cation Exchange Capacity meq/100g	12.0	3					

Reference: **65557/354294/26** Field Name: **FIELD 3**	**Result**	**(*)**	**Deficient**	**Marginal**	**Target**	**Marginal**	**Excessive**
Sodium (Ammonium Nitrate Extractable) mg/l	12.0	1					
Calcium (Ammonium Nitrate Extractable) mg/l	945.6	2					
Estimated Cation Exchange Capacity meq/100g	12.5	3					

Reference: **65557/354295/26** Field Name: **FIELD 4**	**Result**	**(*)**	**Deficient**	**Marginal**	**Target**	**Marginal**	**Excessive**
Sodium (Ammonium Nitrate Extractable) mg/l	11.6	1					
Calcium (Ammonium Nitrate Extractable) mg/l	761.1	2					
Estimated Cation Exchange Capacity meq/100g	12.0	3					

Reference: **65557/354296/26** Field Name: **FIELD 6**	**Result**	**(*)**	**Deficient**	**Marginal**	**Target**	**Marginal**	**Excessive**
Sodium (Ammonium Nitrate Extractable) mg/l	11.5	1					
Calcium (Ammonium Nitrate Extractable) mg/l	698.6	2					
Estimated Cation Exchange Capacity meq/100g	11.4	3					

Reference: **65557/354297/26** Field Name: **FIELD 7**	**Result**	**(*)**	**Deficient**	**Marginal**	**Target**	**Marginal**	**Excessive**
Sodium (Ammonium Nitrate Extractable) mg/l	10.4	1					
Calcium (Ammonium Nitrate Extractable) mg/l	881.3	2					
Estimated Cation Exchange Capacity meq/100g	11.7	3					

Reference: **65557/354298/26** Field Name: **FIELD 8**	**Result**	**(*)**	**Deficient**	**Marginal**	**Target**	**Marginal**	**Excessive**
Sodium (Ammonium Nitrate Extractable) mg/l	11.2	1					
Calcium (Ammonium Nitrate Extractable) mg/l	1377.5						
Estimated Cation Exchange Capacity meq/100g	14.5	4					

Reference: **65557/354299/26** Field Name: **FIELD 11**	**Result**	**(*)**	**Deficient**	**Marginal**	**Target**	**Marginal**	**Excessive**
Sodium (Ammonium Nitrate Extractable) mg/l	12.8	1					
Calcium (Ammonium Nitrate Extractable) mg/l	801.4	2					
Estimated Cation Exchange Capacity meq/100g	12.2	3					

Reference: **65557/354300/26** Field Name: **FIELD 12**	**Result**	**(*)**	**Deficient**	**Marginal**	**Target**	**Marginal**	**Excessive**
Sodium (Ammonium Nitrate Extractable) mg/l	12.4	1					
Calcium (Ammonium Nitrate Extractable) mg/l	654.6	2					
Estimated Cation Exchange Capacity meq/100g	11.4	3					

Reference: **65557/354301/26** Field Name: **FIELD 13**	**Result**	**(*)**	**Deficient**	**Marginal**	**Target**	**Marginal**	**Excessive**
Sodium (Ammonium Nitrate Extractable) mg/l	11.3	1					
Calcium (Ammonium Nitrate Extractable) mg/l	1246.1						

Report continued.....

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Reference: **65557/354301/26** Field Name: **FIELD 13**	**Result**	**(*)**	**Deficient**	**Marginal**	**Target**	**Marginal**	**Excessive**
Estimated Cation Exchange Capacity meq/100g	14.0	**4**					

Reference: **65557/354302/26** Field Name: **FIELD 14**	**Result**	**(*)**	**Deficient**	**Marginal**	**Target**	**Marginal**	**Excessive**
Sodium (Ammonium Nitrate Extractable) mg/l	10.7	**1**					
Calcium (Ammonium Nitrate Extractable) mg/l	1204.8						
Estimated Cation Exchange Capacity meq/100g	14.0	**4**					

Notes (*)

(1) Sodium is a non essential plant nutrient. It is seldom, if ever, deficient except for Sugar Beet and Spinach. No crops show recognisable symptoms of sodium deficiency. If this soil is low in potassium then any crop of Sugar Beet, Fodder Beet, Red Beet, Mangels, Turnips or Celery will require extra potassium and will respond to the addition of sodium fertiliser. Sodium has a positive influence on the mineral nutrition of plants, especially those growing on low potassium soil. Response may be seen in Barley, Wheat, Oats, Peas, Cabbage, Kale and Spinach. Sodium can be applied as agricultural salt at 150kg/ha. Kainit may be used at 1t/ha and this will usually supply adequate amounts of sodium and potassium. Sodium levels in mineral soils are usually below 20mg/l available sodium. Sodium is easily leached from nearly all soil types and it is difficult to build up sodium levels over a period of years. The most responsive crops (beets) are usually grown in three or four year rotations and therefore need sodium fertiliser every time they are grown.

(2) Calcium plays an important role in soil fertility and its status is reflected in the pH of the soil. Plants thrive best when the predominant base in the soil is calcium. If other bases, such as magnesium, potassium or sodium are present in amounts equal to or greater than calcium, nutritional disturbances can occur. Correction is by application of a calcium based liming material.

(3) CEC level is Low (0-12). Soil maybe very low in organic matter. Typical of sandy soils.

(4) CEC level is Medium (12-25). Pumice soils often in the range 13-18; lower fertility mineral soils in the range 15-25.

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Fertiliser Recommendations

The phosphate and potash recommendations shown below, are those required to replace the offtake and maintain target soil indices. The larger recommended applications for soils below target index will allow the soil to build up to this target index over a number of years. Not applying fertiliser to soils which are above target index will allow the soil to run down over a number of years to the target index.
The recommendation should be increased or decreased where yields are substantially more or less than that specified. The amount to apply can be calculated using the expected yield and values for the offtake of phosphate and potash per tonne of yield given in the RB209 9th edition.
All recommendations are given for the mid-point of each Index.
Where a soil analysis value (as given by the laboratory) is close to the range of an adjacent Index, the recommendation may be reduced or increased slightly taking account of the recommendation given for the adjacent Index. Small adjustments of less than 10 kg/ha are generally not justified.
Efficient use of P and K is most likely to be achieved on soils that are well structured and enable good rooting.
For visual evaluation of soil structure (VESS), a score on 1 or 2 would be considered adequate.
Don't forget to deduct nutrients applied as organic manures.
For Nitrogen recommendations please refer to the RB209 9th edition or seek advice from an FACTS qualified adviser.
Target Indices:
Arable, Forage, Grassland and Potato Crops: P Index 2, K Index 2-
(In rotations where most crops are Autumn-sown, soils are in good condition and P is applied annually, high index 1 can be an adequate target.)
Vegetables and Bulbs: P Index 3, K Index 2+
(If vegetables are only grown occasionally as part of an arable rotation, it would be most economic to target index 2 for arable and forage crops.)
Fruit Vines and Hops: P Index 2, K Index 2, Mg Index 2
(Note: Cider apples respond to K Index 3, Mg Index 3)
A lime recommendation is usually for a 20cm depth of cultivated soil or a 15cm depth of grassland soil. Where soil is acid below 20 cm and soils are ploughed for arable crops, a proportionately larger quantity of lime should be applied. However, if more than 10 t/ha is needed, half should be deeply cultivated into the soil and ploughed down, with the remainder applied to the surface and worked in.
For established grassland or other situations where there is no, or only minimal soil cultivation, no more than 7.5 t/ha of lime should be applied in one application.
In these situations, applications of lime change the pH below the surface very slowly. Consequently, the underlying soil should not be allowed to become too acidic because this will affect the root growth and thus limit nutrient and water uptake, which will adversely affect yield.

Field Name / Ref / Soil Type	*Last Crop / Next Crop*		*P2O5*	*K2O*	*MgO*	*Lime (Arable)*	*(Grass)*
FIELD 2	**Not Given / Not Given**	*Units/Acre*				*T/Ac* **2.5**	**0.8**
354293 /		*Kg/Ha*				*Te/Ha* **6.3**	**2.1**
Field Name / Ref / Soil Type	*Last Crop / Next Crop*		*P2O5*	*K2O*	*MgO*	*Lime (Arable)*	*(Grass)*
FIELD 3	**Not Given / Not Given**	*Units/Acre*				*T/Ac* **2.5**	**0.8**
354294 /		*Kg/Ha*				*Te/Ha* **6.3**	**2.1**
Field Name / Ref / Soil Type	*Last Crop / Next Crop*		*P2O5*	*K2O*	*MgO*	*Lime (Arable)*	*(Grass)*
FIELD 4	**Not Given / Not Given**	*Units/Acre*				*T/Ac* **3.1**	**1.3**
354295 /		*Kg/Ha*				*Te/Ha* **7.7**	**3.1**
Field Name / Ref / Soil Type	*Last Crop / Next Crop*		*P2O5*	*K2O*	*MgO*	*Lime (Arable)*	*(Grass)*
FIELD 6	**Not Given / Not Given**	*Units/Acre*				*T/Ac* **3.1**	**1.3**
354296 /		*Kg/Ha*				*Te/Ha* **7.7**	**3.1**
Field Name / Ref / Soil Type	*Last Crop / Next Crop*		*P2O5*	*K2O*	*MgO*	*Lime (Arable)*	*(Grass)*
FIELD 7	**Not Given / Not Given**	*Units/Acre*				*T/Ac* **2.5**	**0.8**
354297 /		*Kg/Ha*				*Te/Ha* **6.3**	**2.1**

Fertiliser recommendations are based on **AHDB RB209 (Ninth Edition).** If a nutrient is deficient and no recommendation is given, either no recommendation is given in RB209 or we have insufficient data to give a recommendation. Apply Lime to the nearest half Ton / Tonne.
NRM is a UKAS accredited laboratory to ISO/IEC 17025

Report continued.....

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Fertiliser Recommendations

Field Name / Ref / Soil Type	*Last Crop / Next Crop*		*P2O5*	*K2O*	*MgO*	*Lime (Arable)*	*(Grass)*
FIELD 8	**Not Given / Not Given**	*Units/Acre*				*T/Ac* **2.0**	**0**
354298 /		*Kg/Ha*				*Te/Ha* **4.9**	**0**
Field Name / Ref / Soil Type	*Last Crop / Next Crop*		*P2O5*	*K2O*	*MgO*	*Lime (Arable)*	*(Grass)*
FIELD 11	**Not Given / Not Given**	*Units/Acre*				*T/Ac* **3.4**	**1.5**
354299 /		*Kg/Ha*				*Te/Ha* **8.4**	**3.7**
Field Name / Ref / Soil Type	*Last Crop / Next Crop*		*P2O5*	*K2O*	*MgO*	*Lime (Arable)*	*(Grass)*
FIELD 12	**Not Given / Not Given**	*Units/Acre*				*T/Ac* **3.7**	**1.7**
354300 /		*Kg/Ha*				*Te/Ha* **9.1**	**4.2**
Field Name / Ref / Soil Type	*Last Crop / Next Crop*		*P2O5*	*K2O*	*MgO*	*Lime (Arable)*	*(Grass)*
FIELD 13	**Not Given / Not Given**	*Units/Acre*				*T/Ac* **2.5**	**0.8**
354301 /		*Kg/Ha*				*Te/Ha* **6.3**	**2.1**
Field Name / Ref / Soil Type	*Last Crop / Next Crop*		*P2O5*	*K2O*	*MgO*	*Lime (Arable)*	*(Grass)*
FIELD 14	**Not Given / Not Given**	*Units/Acre*				*T/Ac* **2.5**	**0.8**
354302 /		*Kg/Ha*				*Te/Ha* **6.3**	**2.1**

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