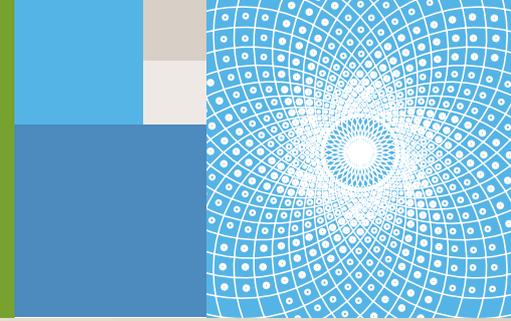




Knowledge grows

Analytical Services



Remove the guesswork



Why Use Analysis

Worldwide, soil, plant tissue and water analysis provide the information required to ensure that crop nutrition decisions are timely, accurate, efficient and cost effective.

Specifically, analytical services help to identify the nutritional status of a crop at different growth stages, taking environmental conditions into account as well. Analysis also ensures timely identification of potential problems, preventing expensive remedial corrections at a later date.



About Yara Analytical Services

Since establishing in 1975 Yara Analytical Services has carried out well over 2 million analyses on soil and plant tissues samples from around the world.

Only the very latest instrumentation, techniques and quality control procedures are used by our qualified teams to be sure that we provide the most rapid, accurate and impartial service available operating within the ISO 9001 and UKAS 17025 certifications. We analyse a wide variety of soils, plant tissues, organic materials and fertilizers in the agricultural, environmental, horticultural and amenity sectors.

Our customers range from individuals to multi-national groups, including independent consultants and agronomists, research stations and government organizations. Our flexibility and capacity also allows

us to carry out contract analysis for other laboratories on a short term basis or as a cost effective alternative to equipping or extending their own facilities.

Our experience and knowledge combined with the use of our internet-based Megalab interpretation facility means that we can provide a broad spectrum of accurate analytical data, plus the expertise required to interpret and utilize data more effectively in specific conditions. For example, our guidelines differ according to the soil pH level.

Introducing Megalab™

Megalab™ is a secure, Internet based, interpretation and data service for agricultural analysis.

Developed by Yara, Megalab has operated 365 days a year, 24 hours a day since 1990, reporting product recommendations into the field for Yara customers.

Megalab contains recognised guidelines for each crop. This means all sample results reports can be provided with a guideline and interpretation for each nutrient, together with fertilizer product recommendations and advice.



Analysis Results (SOIL)

Customer	MR EXAMPLE HOME FARM EXAMPLE TOWN YORKSHIRE	Distributor	EXAMPLE REPORTS MANOR PLACE WELLINGTON ROAD POCKLINGTON YORK YO4 2NR
Sample Ref	ABCD	Date Received	15/09/2014
Sample No	ABCD		
Crop	OILSEED RAPE		

Analysis	Result	Guideline	Interpretation	Comments
pH	6.5	6.5	Normal	Adequate level.
Phosphorus (ppm)	35	16	High	(Index 3.4) Adequate. Use soil analysis every 3-5 years to ensure level is maintained.
Potassium (ppm)	141	121	Normal	(Index 2.1) 40 kg/ha K ₂ O (32 ml/ha/acre). Apply using Yara's Activa program, consult your distributor for details.
Magnesium (ppm)	220	100	High	(Index 4.8) Possible interference with availability of Potassium.
Calcium (ppm)	4465	1600	Normal	Adequate level.
Sulphur (ppm)	19	15	Normal	Adequate level.
Manganese (ppm)	21	45	Very Low	Apply YaraVita Mantra Pro.
Copper (ppm)	2.8	2.1	Normal	Adequate level.
Boron (ppm)	0.10	2.10	Very Low	Apply YaraVita Bortrac 150.
Zinc (ppm)	6.0	4.1	Normal	Adequate level.
Molybdenum (ppm)	0.01	0.60	Very Low	Apply YaraVita Molytrac 250.
Iron (ppm)	114	50	Normal	Adequate level.
Sodium (ppm)	29	90	Very Low	Not a problem for this crop.
C.E.C. (meq/100g)	15.0	15.0	Normal	Cation Exchange Capacity indicates a soil with a good nutrient holding ability.

Additional Comments
 Consider applications of the multi-nutrient product PHOTREL PRO at 3 kg/ha as an alternative. ALWAYS REFER TO THE PRODUCT LABEL FOR SPECIFIC ADVICE ON RATES AND TIMINGS BEFORE USING A YARA PRODUCT.
 Additional technical bulletins are available at www.lancrop.com

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 forage 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 forage samples for analysis is available from the laboratory on request.

This report has been generated by Yara's Megalab™ software.

Date Printed : 15/09/2014

Our Services

Soil Analysis

Soil and compost analysis is a predictive tool giving background knowledge on nutrient levels as well as other factors that need to be considered before making applications such as pH, CEC and lime requirements.

When extreme levels are found, changes to the Yara crop program are needed to compensate for them: high levels of some nutrients can make others unavailable to the crop and a balance is required for healthy growth.

Yara Analytical Services can provide information on a comprehensive list of parameters including nutrients, pH, electrical conductivity and particle size, producing an invaluable guide to lime, fertilizer and nutrient inputs. Soil texture and categorization are also included in our soil and compost services.

In addition to nutrient status, soil health is an increasing focus area for growers and advisors. Consequently we can now provide a comprehensive assessment of microorganism activity within the soil. Together with organic matter levels, this provides a more complete picture of the soil's overall status and its potential for producing high yielding quality crops.

Plant Analysis

Tissue analysis is a reactive, diagnostic tool showing the crop's current nutritional status at a particular moment in time and enabling corrective action to be taken. Tissues include leaf samples, petiole samples, fruit and fruitlet samples.

We are the first and only lab to offer a same day leaf analysis service.

We also offer a full mineral, trace element and feed value assessment for grass and fodder crops, contributing to the health and productivity of livestock.

Water Analysis

Yara Analytical Services offer a special service for hydroponic growers, irrigated crops and water quality assessment covering minerals, pH, electrical conductivity and other related parameters.

Environmental Analysis

This analysis of heavy metals and organic contaminants is used for assessing potentially contaminated areas, as well as the mechanical and nutrient assessment of topsoil for use in landscaped sites to meet the BS3882:2007 topsoil standard.

Other Services

- Potato cyst nematode and speciation.
- Pesticide residues.
- Bacterial assessments.
- Fertilizer analysis.
- Nutrient analysis of manures and other organic waste products.

And More...

Additional individual analyses and specialist services are available – please contact us directly for more details.

Benefits

- **No postage to pay** - Sending samples to Yara Analytical Services is a free service in the UK, Ireland and mainland Europe.
- **Fast turnaround of results** - Including a same day service for leaf analysis.
- **Accurate analysis** - ISO9001 and UKAS17025 accredited, our qualified teams use the latest instrumentation, techniques and quality control procedures
- **Easy to understand reports** - Using a red/amber/green 'traffic light' system on all our reports makes it easy to identify and prioritise problem areas
- **Unlimited access to all your results** - Meglab allows you to access all your results past and present 24/7, 365 days a year.
- **Complete nutrient analysis** - Covering soil, plant tissues for all crops, water, pesticides, organic waste and bacterial assessments, our nutrient analysis service is comprehensive and complete.
- **Crop specific interpretations** - Megalab includes well researched guidelines or trigger concentrations coupled to interpretations and recommendations specific to the crop, and these are included in our sample reports.
- **Fertilizer recommendations** - Our plant nutrition knowledge means fertiliser product recommendations can be provided for all macro and micro nutrients.
- **Follow-up technical advice available** - Contact us direct for additional information and advice to get the most from your results.
- **Full sampling guide included** - Every sample pack has clear and concise information on how to take a representative sample.
- **40 years' experience** - Our track record means complete confidence for our customers.

Remove the Guesswork

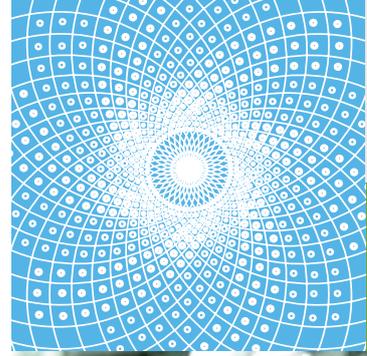
'Remove the guesswork' is a campaign developed to communicate global and local Yara fertilizer application support tools.

Our experience shows that guesswork leads farmers to take wrong decisions which can result in yield losses, wasted investment and negative environmental impact because accurate information is lacking.

'Remove the guesswork' uses a range of tools and services to help farmers improve their application competence, use nutrients more efficiently and achieve higher profitability:

- N-Tester: a handheld tool to instantly determine nitrogen levels in the crop.
- ImageIT: an app to measure and determine the nitrogen requirement in oilseed rape crops.
- N-Sensor: a real time, variable rate nitrogen application system.
- Analytical Services: worldwide soil, plant tissue and water analysis services
- Megalab: an internet-based interactive database for all your analytical results.
- Tankmix: Internet-based database of over 30,000 viable tank mix combinations.
- CheckIT: an app using a library of crop photographs to give a simple and fast identification of nutrient deficiencies.

For more information, contact your local Yara agronomist or visit our websites.



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