

FILE NO : **EXAMPLE**

DATE ISSUED: 06/08/2008

CLIENT NAME
ADDRESS 1
ADDRESS 2

CLIENT ID :
PHONE :

REFERENCE: AGENT NAME

REFERENCE ID :

AGENT ID

REFERENCE PHONE:

AGENT PH #

SAMPLE ID : PADDOCK 1

DATE RECEIVED :

PLANT TYPE: LETTUCE

ANALYSIS REQUIRED: Organic

PLANT PART LEAF

Plant Tissue Nutrient Level Analysis

This report includes all the information you will need to monitor the nutritional status of your crop or pasture, or confirm the diagnosis of any nutritional disorders.

Important:

Plant tissue results can show the levels of nutrients present in the plant tissue and identify nutrients that maybe deficient or in excess, but CANNOT be used to directly determine appropriate application rates of fertiliser. The best strategy is to use tissue results to fine tune the application program developed from the soil test recommendations.

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Sample of: LETTUCE

Optional Tests and Contaminants:	Result	Comment
Silicon Si ppm		Not Requested
Arsenic As ppm		Not Requested
Cadmium Cd ppm		Not Requested
Mercury Hg ppm		Not Requested
Lead Pb ppm		Not Requested

2. Analysis Results

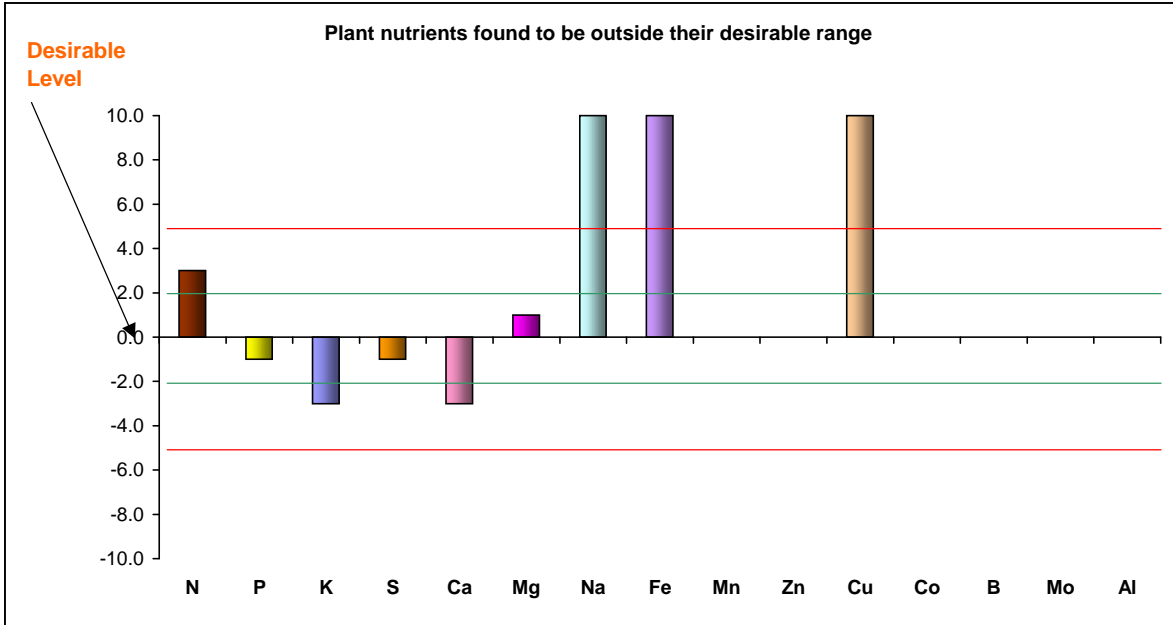
ITEMS			RESULTS	DESIRABLE LEVEL	
NITROGEN	N	%	4.90	3.30	4.00
PHOSPHORUS	P	%	0.51	0.55	0.76
POTASSIUM	K	%	5.79	8.20	10.50
SULPHUR	S	%	0.28	0.30	0.32
CALCIUM	Ca	%	1.00	1.40	1.70
MAGNESIUM	Mg	%	0.40	0.31	0.39
SODIUM	Na	%	1.02	0.16	0.40
IRON	Fe	ppm	1330	192	300
MANGANES	Mn	ppm	87	30	200
ZINC	Zn	ppm	58.8	39	71
COPPER	Cu	ppm	30.8	7	11
COBALT	Co	ppm	1.64		N.A.
BORON	B	ppm	27.1	16	30
Ca : Mg ratio			1.5	2.00	4.00
N : S ratio			17.5	7	10
MOLYBDENUM	Mo	ppm	Not Requested		
CHLORIDE	Cl	%	Not Requested		
SELENIUM	Se	ppm	Not Requested		
ALUMINIUM	Al	ppm	Not Requested		
TOTAL NITROGEN		%	Not Requested		

3. Calculated Surplus/ Deficient Nutrients

Results lower than their desirable level:			
Calcium	29%	Iron	
Magnesium		Manganese	
Sodium		Zinc	
Potassium	29%	Copper	
Nitrogen		Boron	
Phosphorus	7%	Sulphur	7%
		Cobalt	
Results higher than their desirable levels:			
Calcium		Iron	77%
Magnesium	3%	Manganese	
Sodium	61%	Zinc	
Potassium		Copper	64%
Nitrogen	18%	Boron	
Phosphorus		Sulphur	
		Cobalt	
*Percentages above are only approximate, presented as a general guide only. They are calculated as either above the upper desirable limit or below the lower desirable limit for the species and are limited to a maximum of 100%.			

4. Guide to Nutritional Imbalances

The graph below gives you a quick overview of nutrients found to be either above or below their desirable range. Any that fall between the **GREEN** lines are unlikely to require action. Those that fall between the **RED** lines will at least require further monitoring and perhaps correction at some stage. Those outside the **RED** lines may require immediate action. See the notes below for more details.



Key to Essential Plant Nutrients:			Non-essential elements:
C = Carbon	Ca = Calcium	Cu = Copper	I = Iodine
H = Hydrogen	Mg = Magnesium	B = Boron	Al = Aluminium
O = Oxygen	S = Sulphur	Mo = Molybdenum	Se = Selenium
N = Nitrogen	Fe = Iron	Cl = Chlorine	Si = Silicon
P = Phosphorus	Mn = Manganese	Co = Cobalt	Na = Sodium
K = Potassium	Zn = Zinc		

Using this Graph:

Nutritional imbalances are not always severe enough to produce symptoms (other than reduced growth and productivity), so the graph here will give you an idea of any immediate problems, as well as those that may develop into problems later, or may simply be contributing to general ill-health and lacklustre performance.

It is important to remember, however, that not all nutrient imbalances require corrective action. For example, there is no such thing as Calcium toxicity. For this nutrient low levels are more important than high.

High levels of Sulphur are unlikely to cause toxicity symptoms per se. High Sodium and Chloride more often reflect salt levels in the medium. For plants grown in Hydroponic solutions, Sulphur is often high due to the inclusion of many nutrients in their Sulphate form.

High Copper &/or Zinc may be a result of Fungicide application and should be checked against soil test levels.

For more information on this subject contact us on (03) 9701 6007.

SOIL CONTAMINANT AUDIT

TOTAL HEAVY METALS:

		Result	Limit for Organic Production *
Copper	Cu	6.67	50 ppm
Zinc	Zn	57.9	150 ppm
Cadmium	Cd	0	2 ppm
Lead	Pb	4.25	100 ppm
Mercury	Hg	0.012	1 ppm
Chromium	Cr	8.96	150 ppm
Nickel	Ni	3.34	50 ppm
Arsenic	As	2.3	10 ppm

* The lowest of either NASAA or ACO standards.

CONTAMINANT PESTICIDES

ORGANO-CHLORINE PESTICIDES:

	Result (ppm)		Result (ppm)
alpha-BHC	n/d	Dieldrin	n/d
Hexachlorobenzene	n/d	4,4-DDE	n/d
beta-BHC	n/d	Endrin	n/d
γ-BHC (Lindane)	n/d	beta-endosulphan	n/d
delta-BHC	n/d	4,4-DDD	n/d
Heptachlor	n/d	Endrin aldehyde	n/d
Aldrin	n/d	Endosulphan sulphate	n/d
Heptachlor epoxide	n/d	4,4-DDT	n/d
trans-chlordane	n/d	Endrin ketone	n/d
alpha-endosulphan	n/d	Methoxychlor	n/d
cis-chlordane	n/d		

n/d = not detected

ORGANO-PHOSPHATE PESTICIDES:

	Result (ppm)		Result (ppm)
Dichlorvos	n/d	Parathion	n/d
Demeton-S-methyl	n/d	Pirimphos ethyl	n/d
Monocrotophos	n/d	Chlorfenvinphos	n/d
Dimethoate	n/d	Bromophos ethyl	n/d
Diazinon	n/d	Fenamiphos	n/d
Chlorpyrifos methyl	n/d	Prothiofos	n/d
Parathion methyl	n/d	Ethion	n/d
Malathion	n/d	Carbophenothion	n/d
Fenthion	n/d	Azinphos methyl	n/d
Chlorpyrifos	n/d		

n/d = not detected

- Compounds tested are those included in the USEPA 8270 analyte list.
- Composts and Manures should show no detectable levels of any pesticide compound.
- The Organic Soil Maximum is an indicator only, set at 10% of the lowest FSANZ Australian MRL. Refer to your auditor for further details and tissue test follow up in the event of a detection.
- Some MRLs are defined as the sum of two or more compounds. Here the same standard is applied to each of the component compounds.
- Where no Human Food MRL is set, Animal Feedstuff MRLs are applied.
- Where no MRL is defined at all, the Organic Soil Maximum level has been set as "nil".
- All results are given on a 'dry weight' basis.

Pesticide residues tested by ALS Laboratory Group