

Client Details

Client: EXAMPLE CLIENT	Date received: 12/02/2020
Grower: Example Grower	Current Paddock: BLOCK A (Sampled: 12/02/2020)
Order No.: 2016-156	Date reported: 17/02/20
Sample ID: 18004415	Profile sampled (cm): 30
Lab code: ES25	Client agronomist: EXAMPLE AGRONOMIST
Crop: POTATO	Soil Type: Heavy Soil (CEC >12meq)

N-Check Results

NO3-N: 10.90ppm	Nitrate: 97.2 kg/ha	Total available NO3 + NH4: 98.3 kg/ha
NH4-N: 0.12ppm	Ammonium: 1.0 kg/ha	Total req. NO3 + NH4 (kg/ha): 22.8 kg/ha
Bulk Density: 1.07g/cm	Rootzone Moisture: 33 mm	Total available NITROGEN = 22.8 kg/ha
		% Moisture: 10.20% W/W

expressSoil Results

Analyte	Units	Result	Optimal Range	Status
pH (H ₂ O)*	(pH)	7.10	6 - 7	Alkaline
pH (CaCl ₂)*	(pH)	6.51	5.2 - 6.5	Alkaline
EC*	dS/m	0.17	0 - 0.15	High
Lime requirement	t/ha			
ESI	units	0.049	value >0.05	Low
Total Carbon*	%	0.803		
Total Nitrogen*	%	0.072		
Carbon:Nitrogen Ratio	(ratio)	11.134		
Organic Matter	%	1.236	3.25 - 5.2	Very Low
M3 PSR	(ratio)	0.44	0.06 - 0.23	Very High
Mehlich Phosphorus*	ppm	103.0	40 - 90	High
Potassium*	ppm	217.9	245 - 400	Low
Sulphur*	ppm	23.9	12 - 45	Satisfactory
Calcium*	ppm	2127	1950 - 3450	Satisfactory
Magnesium*	ppm	356.7	220 - 440	Satisfactory
Sodium*	ppm	121.2	32 - 115	High
Chloride*	ppm	74	0 - 200	Satisfactory
Zinc*	ppm	7.11	2.2 - 11	Satisfactory
Copper*	ppm	14.82	2.5 - 10	Very High
Boron*	ppm	0.57	2.2 - 6	Very Low
Manganese*	ppm	84.6	18 - 70	High
Iron*	ppm	129.4	40 - 250	Satisfactory
CECe	meq/100g	15.458		
Calcium	meq/100g	10.6 (68.7%CEC)	9.7 - 17.2	Satisfactory
Potassium	meq/100g	0.6 (3.6%CEC)	0.6 - 1.0	Low
Magnesium	meq/100g	3.8 (24.3%CEC)	1.8 - 3.6	High
Sodium	meq/100g	0.5 (3.4%CEC)	0.1 - 0.5	High
Base Saturation	%	100	80 - 87	High
Exchangeable Acidity	meq/100g	0.0 (0.0%CEC)	13 - 20 %CEC	Very Low
Aluminium Saturation	%	0.00		
Ca:Mg Ratio	(ratio)	5.96	3 - 5	High
K:Mg Ratio	(ratio)	0.6	0.3 - 0.5	High



This laboratory has been awarded a Certificate of Proficiency for specific soil and plant tissue analyses by the Australasian Soil and Plant Analysis Council (ASPAC). Tests for which proficiency has been demonstrated are highlighted in this report by an * next to the analyte name.

Analysis by AgVita Analytical

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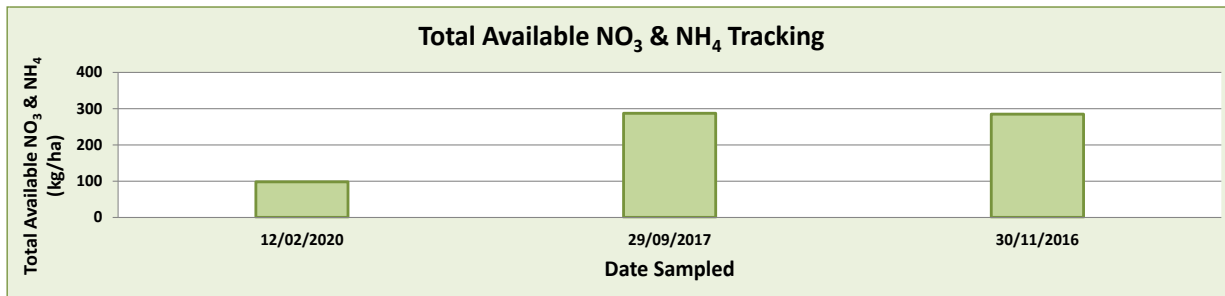
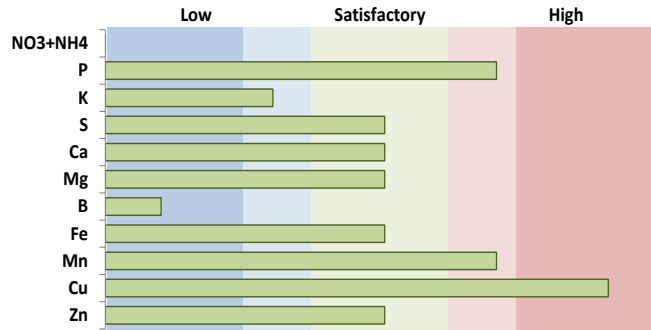
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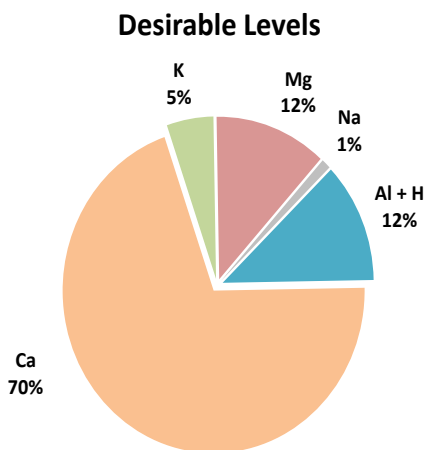
Nutrient Status and Imbalances*

BLOCK A (Sampled: 12/02/2020)

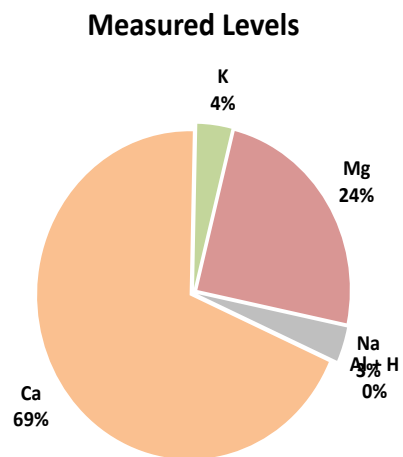
Analyte	Desired Level (kg/ha)	Measured Level (kg/ha)
NO ₃ + NH ₄		98.3
Phosphorus	43.7	69.3
Potassium	217.0	146.6
Sulphur	19.18	16.11
Calcium	1816.7	1431.3
Magnesium	222.0	240.0
Boron	2.8	0.4
Iron	97.56	87.04
Manganese	29.6	56.9
Copper	4.2	10.0
Zinc	4.4	4.8



Soil Cation Ratio (as % CECe)



*Values are means of optimal ranges.



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Recommendations:

BLOCK A (Sampled: 12/02/2020)

RECOMMENDATIONS:

Empty box for recommendations.

Recommended Soil Ameliorant Applications

Product	Timing	Rate (kg/ha)	Application method	Comments

Recommended Fertiliser Applications

Product	Timing	Rate (kg/ha)	Application	N	P	K	S	Ca	Mg

Total nutrient application (kg/ha):



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