



**Soil sampling and analysis
Effluent Irrigation Area
Coolamon Shire Council**

October 2015

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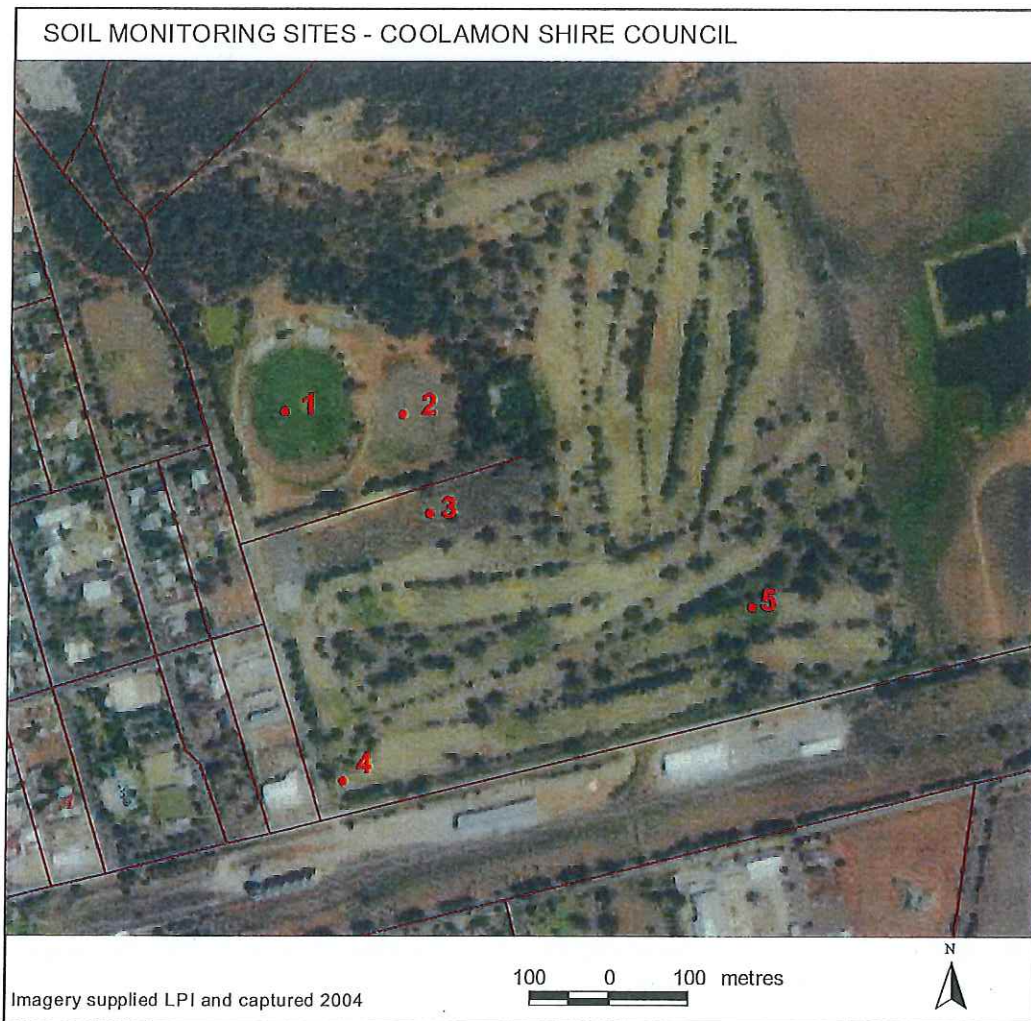
It should be noted that findings in this report are based solely upon the said site location at the time of testing. The results of the said investigations undertaken are an overall representation of the conditions encountered. The properties of the soil within the location may change due to variations in ground conditions outside the tested area.

Environmental Monitoring – Coolamon Shire Council

Soil testing was carried out on the 12th of October 2015 at the request of Coolamon Shire Council, to satisfy statutory requirements outlined in the Environmental Protection Licence (EPL) - 7306.

Five soil sampling sites have been designated for monitoring in the EPL and are as follows:

- Point 1: The large football oval
- Point 2: The smaller football oval
- Point 3: The touch fields
- Point 4: South west corner of the golf course
- Point 5: Middle of the golf course



At the sampling sites the following pollutants are to be tested as per the EPL:

Pollutant	Units of measure	Frequency	Sampling Method
Available phosphorus	milligrams per kilogram	Special Frequency 1	Special Method 1
Conductivity	decisiemens per metre	Special Frequency 1	Special Method 1
Exchangeable sodium percentage	percent	Special Frequency 1	Special Method 1
Nitrate	milligrams per kilogram	Special Frequency 1	Special Method 1
pH	pH	Special Frequency 1	Special Method 1

For the purposes of the table(s) above Special Frequency 1 means the collection of samples in every second year. For the purposes of the table(s) above Special Method 1 means representative composite samples must be taken of: (a) top soils; and (b) subsoils.

The basis for the soil sampling methodology will follow by reference the DEC Guidelines and is as follows:

Topsoil

A composite soil sample of 40 soil cores per site, taken at a depth of 0-10 cm; and

Subsoil

Composite subsoil samples of 5 cores at four depth intervals to 1 metre, within a 5 metre diameter plot. The four depths should fall within 10 -30, 30-60 and 60-100 cm depth increments.

Results

The Available Phosphorus was measured using the Colwell method. All samples were tested at Incitec-Pivot Nutrient Advantage Laboratory report number 021456712 with NATA accreditation 11958.

Topsoil analysis

Test	Site 1	Site 2	Site 3	Site 4	Site 5
Available Phosphorus mg/kg	240	68	51	18	250
Conductivity dS/m	0.10	0.10	0.07	0.05	0.16
Exchangeable Sodium Percentage %	2.4	5.3	8.7	1.3	10.0
Nitrate as N mg/kg	7.0	4	2	3	4
pH	7.4	8.0	8.3	6.5	8.1

Subsoil analysis

Depth	Test	Site 1	Site 2	Site 3	Site 4	Site 5
10-30 cm	Available Phosphorus mg/kg	110	18	60	7	72
	Conductivity dS/m	0.12	0.06	0.12	0.04	0.22
	Exchangeable Sodium Percentage %	6.4	6.2	11.0	2.1	24.0
	Nitrate as N mg/kg	5	2	2	1	1
	pH	7.9	8.2	8.3	7.0	8.8
30-60 cm	Available Phosphorus mg/kg	17	7	22	<5	24
	Conductivity dS/m	0.12	0.05	0.14	0.06	0.49
	Exchangeable Sodium Percentage %	9.0	12.0	13.0	6.7	38.0
	Nitrate as N mg/kg	2	2	1	1	1
	pH	8.3	8.2	7.7	7.7	8.6
60-100 cm	Available Phosphorus mg/kg	7	<5	12	<5	7
	Conductivity dS/m	0.15	0.21	0.19	0.31	0.81
	Exchangeable Sodium Percentage %	15.0	11.0	12.0	8.6	30.0
	Nitrate as N mg/kg	1	<1	<1	1	1
	pH	7.3	7.7	6.9	8.5	8.9

Comments

The levels of available phosphorus in the topsoil and subsoil is generally adequate for agronomic purposes with the exception of site 4 which is slightly below desirable levels.

Levels of salinity in the topsoil and subsoil are generally low and should not cause any problems in the foreseeable future.

Exchangeable Sodium Percentage in the topsoil ranges from non-sodic to marginally sodic. Sodic soils can lead to problems with permeability, surface crusting and erosion. Subsoil levels range from 2.1 to 38.0 which are considered inherent to the local soil type.

Nitrate levels are considered very low and are inadequate for agronomic purposes.

Topsoil pH ranges from neutral to mildly alkaline. Subsoils range from neutral to strongly alkaline.

References

DEC 2004, *Environmental guidelines, Use of Effluent by Irrigation*, Department of Environment and Conservation (NSW), Sydney.

Hazelton, P and Murphy, B 2007, *Interpreting Soil Test Results, What do all the Numbers Mean?* CSIRO Publishing Collingwood, Victoria



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Summary Report

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Report Print Date: 22/10/2015
 Agent/Dealer:
 Advisor/Contact: D M MCMAHON PTY LTD
 Phone: 02 6931 0510

Sample No Test Code	021456712 E11	021456713 E11	021456714 E11	021456715 E11	021456716 E11	021456717 E11
Lab Results Received Date	21/10/2015	21/10/2015	21/10/2015	21/10/2015	21/10/2015	21/10/2015
Paddock Name	CSC	CSC	CSC	CSC	CSC	CSC
Sample Name	NO 1 0-10CM	NO 1 10-30CM	NO 1 30-60CM	NO 1 60-100CM	NO 2 0-10CM	NO 2 10-30CM
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil
Sample Depth (cm)	0 - 10	10 - 30	30 - 60	60 - 100	0 - 10	10 - 30
Sampling Date	12/10/2015	12/10/2015	12/10/2015	12/10/2015	12/10/2015	12/10/2015

Analyte / Assay	Unit	Value					
pH (1:5 Water)		7.4	7.9	8.3	8.6	8.0	8.2
pH (1:5 CaCl ₂)		6.6	6.9	7.1	7.3	6.9	6.9
Electrical Conductivity (1:5 Water)	dS/m	0.10	0.12	0.12	0.15	0.10	0.06
Chloride	mg/kg	13	16	24	32	<10	<10
Nitrate Nitrogen (NO ₃)	mg/kg	7	5	2	1	4	2
Ammonium Nitrogen	mg/kg	3	2	1	1	3	2
Phosphorus (Colwell)	mg/kg	240	110	17	7	68	18
Phosphorus Buffer Index (PBI-Col)		66	60	82	77	47	35
Sulphate Sulphur (KCl40)	mg/kg	10	23	32	47	5	4
Cation Exchange Capacity	cmol(+)/kg	12.0	10.7	9.8	12.3	11.0	7.7
Calcium (Amm-acet.)	cmol(+)/kg	8.9	6.9	5.8	5.9	7.8	5.3
Magnesium (Amm-acet.)	cmol(+)/kg	1.4	1.8	1.9	3.5	1.3	1.0
Sodium (Amm-acet.)	cmol(+)/kg	0.29	0.69	0.89	1.80	0.58	0.48
Potassium (Amm-acet.)	cmol(+)/kg	1.20	1.20	1.10	0.87	1.20	0.88
Available Potassium	mg/kg	450	470	410	340	470	340
Aluminium (KCl)	cmol(+)/kg	0.1	0.1	0.1	0.3	0.1	0.1
Aluminium (KCl)	mg/kg	12.0	11.0	12.0	25.0	12.0	13.0
Aluminium Saturation	%	1.1	1.1	1.4	2.2	1.2	1.8
Calcium % of cations	%	74.0	65.0	59.0	48.0	71.0	68.0
Magnesium % of cations	%	12.0	17.0	20.0	28.0	12.0	12.0

Analyses conducted by Nutrient Advantage Laboratory Services



NATA Accreditation No: 11958

Certificate of Analysis is available upon request.

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Sample No	021456712	021456713	021456714	021456715	021456716	021456717
Test Code	E11	E11	E11	E11	E11	E11
Lab Results Received Date	21/10/2015	21/10/2015	21/10/2015	21/10/2015	21/10/2015	21/10/2015
Paddock Name	CSC	CSC	CSC	CSC	CSC	CSC
Sample Name	NO 1 0-10CM	NO 1 10-30CM	NO 1 30-60CM	NO 1 60-100CM	NO 2 0-10CM	NO 2 10-30CM
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil
Sample Depth (cm)	0 - 10	10 - 30	30 - 60	60 - 100	0 - 10	10 - 30
Sampling Date	12/10/2015	12/10/2015	12/10/2015	12/10/2015	12/10/2015	12/10/2015

Analyte / Assay	Unit	Value					
Sodium % of cations	%	2.40	6.40	9.00	15.00	5.30	6.20
Potassium % of cations	%	9.70	11.00	11.00	7.00	11.00	11.00
Calcium/Magnesium Ratio		6.4	3.8	3.1	1.7	6.0	5.6

The results reported pertain only to the samples submitted.

Analyses performed on soil dried at 40 degrees Celsius and ground to <2mm (excluding moisture assay)

Analyses performed on plant material dried at 70 degrees Celsius and ground to <2mm

Water analyses performed on an 'as received' basis

Analytical results reported by the laboratory as 'less than' the level of reporting, will be deemed by Nutrient Advantage Advice as being equivalent to the level of reporting for both calculation and interpretive purposes

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Sample No Test Code	021456718 E11	021456719 E11	021456720 E11	021456721 E11	021456722 E11	021456723 E11
Lab Results Received Date	21/10/2015	21/10/2015	21/10/2015	21/10/2015	21/10/2015	21/10/2015
Paddock Name	CSC	CSC	CSC	CSC	CSC	CSC
Sample Name	NO 2 30-60CM	NO 2 60-100CM	NO 3 0-10CM	NO 3 10-30CM	NO 3 30-60CM	NO 3 60-100CM
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil
Sample Depth (cm)	30 - 60	60 - 100	0 - 10	10 - 30	30 - 60	60 - 100
Sampling Date	12/10/2015	12/10/2015	12/10/2015	12/10/2015	12/10/2015	12/10/2015

Analyte / Assay	Unit	Value					
pH (1:5 Water)		8.2	7.7	7.9	8.3	7.7	6.9
pH (1:5 CaCl2)		6.6	6.7	6.8	7.1	6.6	6.0
Electrical Conductivity (1:5 Water)	dS/m	0.05	0.21	0.07	0.12	0.14	0.19
Chloride	mg/kg	<10	38	11	17	57	130
Nitrate Nitrogen (NO3)	mg/kg	2	<1	2	2	1	<1
Ammonium Nitrogen	mg/kg	1	1	1	2	1	1
Phosphorus (Colwell)	mg/kg	7	<5	51	60	22	12
Phosphorus Buffer Index (PBI-Col)		38	62	10	61	71	67
Sulphate Sulphur (KCl40)	mg/kg	5	78	4	6	19	43
Cation Exchange Capacity	cmol(+)/kg	7.1	14.3	3.4	10.4	9.7	8.1
Calcium (Amm-acet.)	cmol(+)/kg	3.5	5.5	1.5	5.6	4.5	3.0
Magnesium (Amm-acet.)	cmol(+)/kg	1.8	5.7	1.1	2.5	2.7	2.9
Sodium (Amm-acet.)	cmol(+)/kg	0.83	1.60	0.30	1.10	1.20	1.00
Potassium (Amm-acet.)	cmol(+)/kg	0.72	1.40	0.54	1.10	1.20	1.20
Available Potassium	mg/kg	280	540	210	440	480	480
Aluminium (KCl)	cmol(+)/kg	0.2	<0.1	<0.1	<0.1	<0.1	<0.1
Aluminium (KCl)	mg/kg	19.0	<9.0	<9.0	<9.0	<9.0	<9.0
Aluminium Saturation	%	2.9	<1.0	<1.0	<1.0	<1.0	<1.0
Calcium % of cations	%	50.0	39.0	43.0	54.0	47.0	37.0
Magnesium % of cations	%	25.0	40.0	32.0	24.0	28.0	35.0

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Sample No	021456718	021456719	021456720	021456721	021456722	021456723
Test Code	E11	E11	E11	E11	E11	E11
Lab Results Received Date	21/10/2015	21/10/2015	21/10/2015	21/10/2015	21/10/2015	21/10/2015
Paddock Name	CSC	CSC	CSC	CSC	CSC	CSC
Sample Name	NO 2 30-60CM	NO 2 60-100CM	NO 3 0-10CM	NO 3 10-30CM	NO 3 30-60CM	NO 3 60-100CM
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil
Sample Depth (cm)	30 - 60	60 - 100	0 - 10	10 - 30	30 - 60	60 - 100
Sampling Date	12/10/2015	12/10/2015	12/10/2015	12/10/2015	12/10/2015	12/10/2015

Analyte / Assay	Unit	Value					
Sodium % of cations	%	12.00	11.00	8.70	11.00	13.00	12.00
Potassium % of cations	%	10.00	9.60	16.00	11.00	13.00	15.00
Calcium/Magnesium Ratio		1.9	1.0	1.4	2.2	1.7	1.0

The results reported pertain only to the samples submitted.

Analyses performed on soil dried at 40 degrees Celsius and ground to <2mm (excluding moisture assay)

Analyses performed on plant material dried at 70 degrees Celsius and ground to <2mm

Water analyses performed on an 'as received' basis

Analytical results reported by the laboratory as 'less than' the level of reporting, will be deemed by Nutrient Advantage Advice as being equivalent to the level of reporting for both calculation and interpretive purposes

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Report Print Date: 22/10/2015
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Sample No Test Code	021456724 E11	021456725 E11	021456726 E11	021456727 E11	021456728 E11	021456729 E11
Lab Results Received Date	21/10/2015	21/10/2015	21/10/2015	21/10/2015	21/10/2015	21/10/2015
Paddock Name	CSC	CSC	CSC	CSC	CSC	CSC
Sample Name	NO 4 0-10CM	NO 4 10-30CM	NO 4 30-60CM	NO 4 60-100CM	NO 5 0-10CM	NO 5 10-30CM
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil
Sample Depth (cm)	0 - 10	10 - 30	30 - 60	60 - 100	0 - 10	10 - 30
Sampling Date	12/10/2015	12/10/2015	12/10/2015	12/10/2015	12/10/2015	12/10/2015

Analyte / Assay	Unit	Value					
pH (1:5 Water)		6.5	7.0	7.7	8.5	8.1	8.8
pH (1:5 CaCl2)		5.3	5.6	6.3	7.7	6.9	7.6
Electrical Conductivity (1:5 Water)	dS/m	0.05	0.04	0.06	0.31	0.16	0.22
Chloride	mg/kg	<10	<10	12	91	27	86
Nitrate Nitrogen (NO3)	mg/kg	3	1	1	1	4	1
Ammonium Nitrogen	mg/kg	2	2	1	1	1	1
Phosphorus (Colwell)	mg/kg	18	7	<5	<5	250	72
Phosphorus Buffer Index (PBI-Col)		55	46	55	68	97	59
Sulphate Sulphur (KCl40)	mg/kg	2	1	2	11	4	12
Cation Exchange Capacity	cmol(+)/kg	9.7	9.5	15.6	24.0	14.6	11.7
Calcium (Amm-acet.)	cmol(+)/kg	6.2	6.1	7.5	12.0	7.4	4.4
Magnesium (Amm-acet.)	cmol(+)/kg	2.1	2.0	5.7	8.3	4.0	3.2
Sodium (Amm-acet.)	cmol(+)/kg	0.13	0.20	1.00	2.10	1.50	2.80
Potassium (Amm-acet.)	cmol(+)/kg	1.30	1.20	1.40	1.50	1.60	1.20
Available Potassium	mg/kg	510	450	540	590	630	490
Aluminium (KCl)	cmol(+)/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aluminium (KCl)	mg/kg	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0
Aluminium Saturation	%	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Calcium % of cations	%	64.0	64.0	48.0	50.0	51.0	38.0
Magnesium % of cations	%	21.0	21.0	36.0	34.0	28.0	28.0

Analyses conducted by Nutrient Advantage Laboratory Services



NATA Accreditation No: 11958

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Sample No	021456724	021456725	021456726	021456727	021456728	021456729
Test Code	E11	E11	E11	E11	E11	E11
Lab Results Received Date	21/10/2015	21/10/2015	21/10/2015	21/10/2015	21/10/2015	21/10/2015
Paddock Name	CSC	CSC	CSC	CSC	CSC	CSC
Sample Name	NO 4 0-10CM	NO 4 10-30CM	NO 4 30-60CM	NO 4 60-100CM	NO 5 0-10CM	NO 5 10-30CM
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil
Sample Depth (cm)	0 - 10	10 - 30	30 - 60	60 - 100	0 - 10	10 - 30
Sampling Date	12/10/2015	12/10/2015	12/10/2015	12/10/2015	12/10/2015	12/10/2015

Analyte / Assay	Unit	Value					
Sodium % of cations	%	1.30	2.10	6.70	8.60	10.00	24.00
Potassium % of cations	%	13.00	12.00	8.80	6.30	11.00	11.00
Calcium/Magnesium Ratio		3.0	3.1	1.3	1.4	1.9	1.4

The results reported pertain only to the samples submitted.

Analyses performed on soil dried at 40 degrees Celsius and ground to <2mm (excluding moisture assay)

Analyses performed on plant material dried at 70 degrees Celsius and ground to <2mm

Water analyses performed on an 'as received' basis

Analytical results reported by the laboratory as 'less than' the level of reporting, will be deemed by Nutrient Advantage Advice as being equivalent to the level of reporting for both calculation and interpretive purposes

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Report Print Date: 22/10/2015
 Agent/Dealer:
 Advisor/Contact: D M MCMAHON PTY LTD
 Phone: 02 6931 0510

Sample No	021456730	021456731			
Test Code	E11	E11			
Lab Results Received Date	21/10/2015	21/10/2015			
Paddock Name	CSC	CSC			
Sample Name	NO 5 30-60CM	NO 5 60-100CM			
Sample Type	Soil	Soil			
Sample Depth (cm)	30 - 60	60 - 100			
Sampling Date	12/10/2015	12/10/2015			

Analyte / Assay	Unit	Value			
pH (1:5 Water)		8.6	8.9		
pH (1:5 CaCl2)		7.6	8.1		
Electrical Conductivity (1:5 Water)	dS/m	0.49	0.81		
Chloride	mg/kg	330	600		
Nitrate Nitrogen (NO3)	mg/kg	1	1		
Ammonium Nitrogen	mg/kg	1	1		
Phosphorus (Colwell)	mg/kg	24	7		
Phosphorus Buffer Index (PBI-Col)		49	42		
Sulphate Sulphur (KCl40)	mg/kg	62	120		
Cation Exchange Capacity	cmol(+)/kg	13.6	19.9		
Calcium (Amm-acet.)	cmol(+)/kg	3.5	6.7		
Magnesium (Amm-acet.)	cmol(+)/kg	3.8	6.1		
Sodium (Amm-acet.)	cmol(+)/kg	5.10	5.90		
Potassium (Amm-acet.)	cmol(+)/kg	1.10	1.30		
Available Potassium	mg/kg	450	520		
Aluminium (KCl)	cmol(+)/kg	<0.1	<0.1		
Aluminium (KCl)	mg/kg	<9.0	<9.0		
Aluminium Saturation	%	<1.0	<1.0		
Calcium % of cations	%	26.0	33.0		
Magnesium % of cations	%	28.0	30.0		

Analyses conducted by Nutrient Advantage Laboratory Services



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Sample No	021456730	021456731				
Test Code	E11	E11				
Lab Results Received Date	21/10/2015	21/10/2015				
Paddock Name	CSC	CSC				
Sample Name	NO 5 30-60CM	NO 5 60-100CM				
Sample Type	Soil	Soil				
Sample Depth (cm)	30 - 60	60 - 100				
Sampling Date	12/10/2015	12/10/2015				

Analyte / Assay	Unit	Value				
Sodium % of cations	%	38.00	30.00			
Potassium % of cations	%	8.40	6.70			
Calcium/Magnesium Ratio		0.9	1.1			

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 Analyses performed on plant material dried at 70 degrees Celsius and ground to <2mm
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