

Grower Name: JOHN & HILDE Paddock Name: PORE 72URS	
GERATHY Sample Number: 022170631 October Name: 022170631 Sample Name: 022170631	
Sampling Da	: 15/05/2020
Sample Water Type: Irrigation Water Use: Ornamentals Water Source	Bore

John,

For livestock water purposes, the water quality appears to be quite satisfactory in regard to mineral composition.

There has been no analysis for biological factors, which are influenced by such things as water temperature (depth, volume etc.), organic residue and nutrient status.

## Due to salinity and hardness it is not recommended to use the water in its present state for domestic, human or garden situations.

Most ornamentals are not tolerant of salinity except ones that have a high tolerance. The hardness of the water can lead to problems with scale in pumps and pipe work.

As water is mixed flowing into an aquifer the level that the sample is taken from would have little affect on the mineral composition of the water.

It would be suggested to consider using this source of water as a backup and if available blend with a more suitable source to make it more useful in a garden setting if required.

## Please see attached spread sheet for a detailed report.

To clarify any of the results or recommendations made on this water test please contact Keith Garlick on (02) 6362 1899

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## WATER ANALYSIS REPORT

Grower Name:	JOHN & HILDE GERATHY	Paddo	ck Name:	BORE 72HF	RS	Sample Name:	
Sample Number:	022170631	Test co	ode:	C1		Sampling Date:	15/05/2020
Analyte		Unit	Value	Optimum	Low	Adequate	High
Electrical Conduction	vity	dS/m	1.50				
pH			7.8	5.0 - 8.6	1416-10		
Chloride		mg/L	96.00	< 175	-	COLUMN TWO IS NOT THE	
Sodium (Dissolved)		mg/L	69.00	< 70			
Salinity Class			3.00	< 1.1			
Res. Sod. Carb. (RS	C)	meq/L	-8.90	- 1.1			
Sodium Adsorption	Ratio (SAR)		1.10				
Sodicity Class			0.00				
Total Alkalinity		mg					
		CaCO3/L	350.00				
Bicarbonate Alkalini	ty	mg CaCO3/L	350.00				
Carbonate Alkalinity	/	meq/L	0.00				
Carbonate Alkalinity	, ,	mg CaCO3/L	0.00				
Bicarbonate Alkalini	ty	meq/L	7.00	< 2.0			
Calcium Carbonate S	Saturation Index		1.30	-0.5 - 0.5			
Water Hardness		mg CaCO3/L	800.00	< 100			
Aluminium (Dissolve	ed)	mg/L	< 0.05	< 5.0	-		
Boron (Dissolved)		mg/L	<0.03	< 0.5			
Calcium (Dissolved)		mg/L	180.00	< 100			
Copper (Dissolved)		mg/L	<0.01	< 0.2			
ron (Dissolved)		mg/L	0.03	< 1.0			
Magnesium (Dissolve	ed)	mg/L	84.00	< 100			
Manganese (Dissolve	ed)	mg/L	0.83	< 0.2			
Ammonium Nitrogen		mg/L	<1.0	. 0.2			
Nitrate Nitrogen		mg/L	<1.0	< 10			
Phosphorus (Dissolve	ed)	mg/L	<0.10				
Potassium (Dissolved	))	mg/L	1.60	< 0.2 < 15			
			1.00	. 13		A DESCRIPTION OF A DESC	

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		WAT	FER AN	<b>NALYSIS</b>	REPOF	RT	
Grower Name:	GERATHY		ck Name:	BORE 72	IRS	Sample Name:	
Sample Number: 022170631		Test code:		C1		Sampling Date:	15/05/2020
Analyte		Unit	Value	Optimum	Low	Adequate	High
Sulphur (Dissolved)		mg/L	110.00	< 5.0			ingi
Zinc (Dissolved)		mg/L	<0.02	< 2.0	Salt Salt		
Total Dissolved Ions		mg/L	1,000.00				

The results in this report pertain only to the sample submitted. Analyses performed on soil dried at 40°C and ground to 2mm or less, excluding moisture tests, or as otherwise indicated. Analyses performed on plant dried at 70°C and ground to 1mm or less, excluding moisture tests, or as otherwise indicated. 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 NA Pro as being equivalent to the level of reporting for both calculation and interpretive purposes. This document shall not be reproduced except in full.

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JOHN & HILDE GERATHY 14/04/2020	Y 14/04/2020				SOURCE:	E: BORF		
Analyte	Unit	Result	Result	Result	Drinking Water		Domestic	Irrigation
		Bore	Bore 72hrs	Creek	Health Guidelines	Trigger Values	Water Use	Garden
		14/04/20	15/05/20	15/05/20				Carver
Electrical Conductivity	dS/m	1.5	1.5	1.5	<0.8	4.7	0	0 65.1 2
		7.3	7.8	7.7	6.5-8.5	6.5-8.5	5.5-8.5	5.0-8.5
Chioride	mg/L	150.00	96.00	96.00	<250	1200	<400	1175
Sodium (Dissolved)	mg/L	65.00	69	68.00	<180	<1000	<100	117
Salinity Class		3.00	3.00	3.00	<0 0>	ى تەرىخ	100	-10
Res. Sod.Carb.(RSC	meq/L	-10.00	-8.90	-8.10	soil affect	coil offort	X	
Sodium Absorption Ratio (SAR)		1.00	1 10	1 10	23 D			<1.25
Sodicity Class		0.00	0.00	0.00	<0.001	0000	<3.0	3-6
Total Alkalinity	mgCaCo3/L	290	350.00	350.00	relates to hardness	relates to hardness	illa	<1.0
Bicarbonate Alkalinity	mgCaCo3/L	290	350.00	350.00	relates to hardness	relates to hardness	relates to hardness	
Carbonate Alkalinity	meq/L	0.00	0.00	0.00	relates to hardness	relates to hardness	relates to hardness	
Carbonate Alkalinity	mgCaCo3/L	0.00	0.00	0.00	relates to	relates to hardness	rolator to bordage	
Bicarbonate Alkalinity	meq/L	5.90	7.00	7.00	n/a	n/a	n/a	50
Calcium Carbonate Saturation Index		0.69	1.30	1.10	relates to scaling	related to scaling		
Water Hardness	mgCaCo3/L	810	800.00	760.00	<200	n/a		2.0
Aluminium (Dissolved)	mg/L	<0.05	<0.05	<0.05	<0.2	5	<b>^</b> л	А.
Boron (Dissolved)	mg/L	<0.03	<0.03	<0.03	<4.0	თ	<0 5	
Calcium (Dissolved)	mg/L	170.00	180.00	170.00	200	100	relates to hardness	
Copper (Dissolved)	mg/L	<0.01	<0.01	<0.01	<2.0	0.5	<10	
Iron (Dissolved)	mg/L	<0.01	0.03	0.01	<0.3	50	<0.3	<10 ×
Magnessium (Dissolved)	mg/L	93.00	84.00	81.00	<150	250	relates to hardness	
Manganese (Dissolved)	mg/L	0.84	0.83	0.82	<0.5 Health <0.11 Taste	< <u>0</u>	-0 45	
Ammonium Nitrogen	mg/L	<1.00	<1.0	<1.0		1.0	NU. 10	SU.2
Nitrate Nitrogen	mg/L	<1.00	<1.0	<1.0	<10	20	n/a	10
Phosphorus (Dissolved)	mg/L	<0.10	<0.10	<0.10	<0.11	<0.5	<0.5	<n></n>
Subbur (Dissolved)	mg/L	<0.60	1.60	1.50	soil affect	soil affect	n/a	<15
	ma/i l	130 00 1	110 00	110 00	<130	330	n/a	<5 0

Salinity Class: determined for irrigation purposes mainly.   Irrigation – Garden: 3 – High Salinity - suit   Stock: 5 + High Saline use v   Stock: Satisfactory for all sto   Domestic Uses: Refer to the Electrical   Drinking: Refer to the Electrical   Residual Sodium Carbonate (RSC): represents the amound   Irrigation – Garden: Satisfactory for most p	Sodium: usually present in water Irrigation – Garden: Stock: Domestic Uses: Drinking:	Drinking:	Chloride: is an ion of common salts. Irrigation – Garden: Stock: Domestic Uses:	Stock: Domestic Uses: Drinking:	<b>pH:</b> a measure of acidity or alka Irrigation – Garden:	Irrigation – Garden: Stock: Domestic Uses: Drinking: Refer to Salinity Class Satisfactory for Pigs, F Where the EC > 0.8 ds of corrosion, lathering better source of wate Unacceptable >1.60 option if the quality is	Water Comments.	Zinc (Dissolved) Total Dissolved lons
Salinity Class: determined for irrigation purposes mainly.   Irrigation – Garden: 3 – High Salinity - suitable for medium, high and very high salt tolerant plants.   Stock: Satisfactory for all stock uses.   Domestic Uses: Refer to the Electrical Conductivity Comments   Drinking: Refer to the Electrical Conductivity Comments   Residual Sodium Carbonate (RSC): represents the amount of sodium bicarbonate and carbonate in the water.   Irrigation – Garden: Satisfactory for most plant.	Sodium: usually present in water sources as sodium chloride or salt.   Irrigation – Garden: Satisfactory for most plants.   Stock: Satisfactory for all stock uses.   Domestic Uses: Satisfactory for domestic purposes.   Drinking: Water is within Australian Drinking Water Guidelines.	Water is within Australian Drinking Water Guidelines.	alts. Chloride concentration is below critical levels. Overhead Irrigation - 175mg/L – citrus, many other fruit and ornamentals, 350 mg/L - most vegetables, 700 mg/L – most field crops and pasture species. Drip and Surface Irrigation - 350 mg/L - most fruit, vegetables and ornamentals. 700 mg/L – most field crops and pasture species. Satisfactory for all stock uses. Satisfactory for domestic purposes.	Satisfactory for all stock uses. Satisfactory for domestic purposes. Water is within Australian Drinking Water Guidelines.	pH: a measure of acidity or alkalinity, neutral water has a pH of 7.0 Irrigation – Garden: Satisfactory for most plants.	sure of the water's salinity. Refer to Salinity Class Satisfactory for Pigs, Poultry, Horses, Dairy Cattle, Beef Cattle and Sheep Where the EC > 0.8 dS/m, hard scale formation can be a problem for laundry and hot water systems, particularly with electric heating elements. Problems of corrosion, lathering and scale formation increase with conductivity until at 3.0 dS/m detergents and water softeners can no longer be used. Dilute with a better source of water (e.g. rainwater) or purify by using water softeners or desalination units. Unacceptable >1.60 Treatment of water by water softeners or desalination units may be considered, but dilution with good quality water may be the best option if the quality is below tolerance. Use rainwater where possible.		mg/L   0.43   <0.02   <0.02   <5   20   <2.0   <2.0     mg/L   1000.00   1000.00   1000.00   <600