

Water Analysis Report

Irrigation Water Analysis



Customer:		Water Use:	Irrigation (FAO)	Date Received:	20-Jul-18
Address:				Analysis Date:	20-Jul-18
Farm Name:		Comments:		Report Date:	23-Jul-18
Contact Person:		Condition:	Filled	Sample ID:	

Water Source: 6cfYc`Y%-

To maintain the correct history ensure that the next sample sent from this Water Source is labelled: Borehole 1

History (Last 3 analysis)

Parameter	Unit	Result	Guide Low	Guide High	Low	Optimum	High	Symbol	Current	21-03-18	6-12-17	Method
pH		7.92	6.50	8.40				pH	7.92	7.48	7.77	Potentiometric
*Electrical Conductivity	mS cm ⁻¹	0.46		< 1.50				EC	0.46	0.53	0.49	Potentiometric
Ammonium	ppm	0.15		< 5.00				NH ₄	0.15	0.21	0.27	Colorimetric
Calcium	ppm	21.7		< 60.0				Ca	21.7	23.1	24.7	Spectroscopy
Magnesium	ppm	9.04		< 25.0				Mg	9.04	10.1	10.8	Spectroscopy
Potassium	ppm	20.5		< 20.0				K	20.5	19.1	19.4	Spectroscopy
Phosphorus	ppm	0.28		< 0.40				P	0.28	0.25	0.16	Spectroscopy
Nitrate N	ppm	0.27		< 15.0				NO ₃ N	0.27	< 0.01	0.11	Colorimetric
*Nitrates	ppm	1.20		< 66.0				NO ₃	1.20	< 0.01	0.49	Colorimetric
Sulphur	ppm	6.27		< 27.0				S	6.27	0.13	< 0.05	Spectroscopy
*Sulphate	ppm	18.8		< 81.0				SO ₄	18.8	0.39	< 0.05	Spectroscopy
Iron	ppm	3.85		< 5.00				Fe	3.85	3.75	2.85	Spectroscopy
Manganese	ppm	0.22		< 0.20				Mn	0.22	0.71	0.79	Spectroscopy
Zinc	ppm	< 0.01		< 2.00				Zn	< 0.01	< 0.01	< 0.01	Spectroscopy
Boron	ppm	0.032		< 0.60				B	0.032	0.029	0.038	Spectroscopy
Copper	ppm	< 0.01		< 0.20				Cu	< 0.01	< 0.01	0.022	Spectroscopy
Molybdenum	ppm	< 0.01		< 0.01				Mo	< 0.01	< 0.01	< 0.01	Spectroscopy
Sodium	ppm	60.1		< 60.0				Na	60.1	75.5	65.6	Spectroscopy
Chlorides	ppm	12.4		< 140				Cl	12.4	10.1	10.2	Colorimetric
*Bicarbonate	ppm	262		< 91.0				HCO ₃	262	323	314	Colorimetric
Silicon	ppm	26.9		< 50.0				Si	26.9	30.9	27.9	Spectroscopy
*Silica	ppm	57.5		< 107				SiO ₂	57.5	66.1	59.7	Spectroscopy
*SAR		2.73		< 10.0				SAR	2.73	3.30	2.77	Calculated
*Hardness	ppm	91.3		< 60.0				CaCO ₃	91.3	99.2	106	Calculated
*Turbidity	NTU	28.7		< 10.0				TUB	28.7	6.93	8.18	Turbidimetry

COMMENTS

High levels of bicarbonates will increase soil pH through a liming effect, especially in association with sodium. When used for flower or hydroponics crops, high quantities of acid will be required to neutralize. > High potassium levels can be considered in fertilizer programs. Can cause deficiency of Mg and Ca due to induced nutrient imbalances > High sodium content may produce harmful levels of exchangeable sodium in most soils and will require special soil management. > High levels of manganese are toxic to plants especially in acid soils > High turbidity levels indicate the presence of suspended material. It indicate possible bacterial contamination and can cause clogging of irrigation systems.

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