

Water Quality Report for Irrigation EFMA Primary Network

Lab result Responsible Laboratory: ALS Life Sciences Portugal, S.A Parameters	/DII-45	nº 39257/2024) Results	Water Quality for Irrigation (annex XVI, DL n.º 236/98) Conformity
Alkalinity	mg/L CaCO3	126	Comornity
Ammonium	mg/L NH4	0,056	
Nitrogen Kjeldahl	mg/L N	0,98	
Total Nitrogen	mg/L N	0,77	
Bicarbonates	mg/L CO3H-	154	(a)
Boron	mg/L B	0,0272	
Calcium	mg/L Ca	40	
Chloride	mg/L Cl	57,7	
Total Hardness	mg/L CaCO3	174	
Total Iron (b)	mg/L Fe	0,077	
Phosphates	mg/L P2O5	0,061	
Total Phosphorus	mg/L P	0,027	
Magnesium	mg/L Mg	17,7	
Manganese	mg/L Mn	0,0056	
Nitrates	mg/L NO3	<l.q. 2<="" td=""><td></td></l.q.>	
Nitrites	mg/L NO2	0,0311	
Potassium	mg/L K	6,6	
Ratio of Sodium Absorption (SAR)		1,179	
Ratio of Sodium Absorption adjusted (SARaj)		1,229	
Sodium	mg/L Na	35,7	
Total Dissolved Solids (TDS)	mg/L	362	
Total Suspended Solids (TSS)	mg/L	3,1	
Sulphates	mg/L CO4	44,4	
Total Coliforms	UFC/100 mL	4	
Fecal Coliforms	UFC/100 mL	5	

Note: With the exception of the SARaj parameter, test to determine the remaining parameters are included in the range of laboratory accreditation.

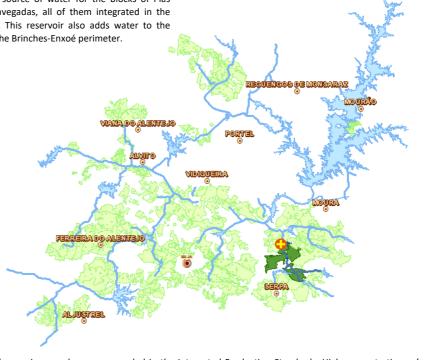
	Field Results (Determined with a multiparameter probe)			Water Quality for Irrigation (annex XVI, DL n.º 236/98)
	Parameters	Units	Results	Conformity
Temperature		ōС	13,7	
pH		Escala Sorensen	8,40	
Conductivity		μS/cm	526	

- Lower than the VMR (Maximum Value Recommended).
- Higher than VMR and below the VMA (Maximum Permitted Value).
- Higher than VMR. For this parameter is not defined one VMA.
- Higher than the VMA.
- (a) The maximum value recommended in the Integrated Production Standards, for most crops, is 90 mg / L.
- (b) The VMA in Annex XVI of the Decree-Law nº 236/98 refers to the dissolved iron (5 mg/L Fe).

Sampling Data: 24/01/2024
Sampling Place: Brinches

Benefited areas:

The reservoir of Brinches is the source of water for the blocks of Pias Brinches Sul, Cangueiros and Navegadas, all of them integrated in the irrigation perimeter of Brinches. This reservoir also adds water to the Serpa-Pias 1 block, integrated in the Brinches-Enxoé perimeter.



Comments:

The bicarbonate values exceed the maximum value recommended in the Integrated Production Standards. High concentrations of bicarbonates can affect crop yields, making it difficult to absorb some mineral nutrients.

The results of the remaining elements are within the range of expected values for this typology of water bodies.

MUSEUDNLUZ

In the document "Water Quality - Complementary Information", EDIA recommends some general measures to reduce the concentration of salts in the water bodies.



