

## Water Quality Report for Irrigation EFMA Primary Network

Responsible Laboratory: ALS Life Sciences Portu	· · · · · · · · · · · · · · · · · · ·		6963/2025)	Water Quality for Irrigation (annex XVI, DL n.° 236/98)
Parameters	Units		Results	Conformity
Alkalinity	mg/L CaC		117	
Ammonium	mg/L NF		0,061	
Nitrogen Kjeldahl	mg/L N		0,87	
Total Nitrogen	mg/L N		0,64	
Bicarbonates	mg/L CO3		143	(a)
Boron	mg/L B	<l.q.< td=""><td>0,1</td><td></td></l.q.<>	0,1	
Calcium	mg/L Ca	ì	32,7	
Chloride	mg/L C		50,4	
Total Hardness	mg/L CaC	03	147	
Dissolved Iron	mg/L Fe	9	0,036	
Phosphates	mg/L P20	)5	0,18	
Total Phosphorus	mg/L P		0,077	
Magnesium	mg/L M	9	16	
Manganese	mg/L Mi	า	0,0142	
Nitrates	mg/L NC	3 <l.q.< td=""><td>2</td><td></td></l.q.<>	2	
Nitrites	mg/L NC	2 <l.q.< td=""><td>0,01</td><td></td></l.q.<>	0,01	
Potassium	mg/L K		5,9	
Ratio of Sodium Absorption (SAR)	, , , , , , , , , , , , , , , , , , ,		1,06	
Ratio of Sodium Absorption adjusted (SARai)			1,11	_
Sodium	mg/L Na	3	29,7	
Total Dissolved Solids (TDS)	mg/L		272	
Total Suspended Solids (TSS)	mg/L		4.3	
Sulphates	mg/L CO	4	35.5	
Total Coliforms	UFC/100 r		0	
Fecal Coliforms	UFC/100 i		0	•

**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		°C	22,9	
pH		Escala Sorensen	8,60	
Conductivity		μS/cm	472	

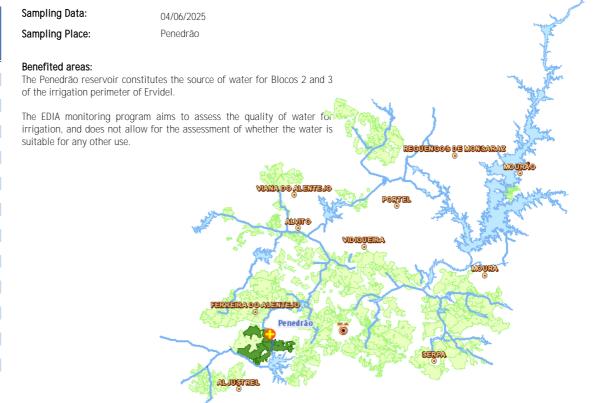
Lower than the VMR (Maximum Value Recommended).

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) In the Integrated Production Standards, the previously recommended value for bicarbonates, in most crops, was 90 mg/L.



## Comments:

The pH result exceeds the Recommended Maximum Value range for water quality for irrigation (VMR: [6.5-8.4]). This may be due to an increase in the biological activity of algae. High pH values can affect the plant's ability to absorb nutrients and promote the precipitation of iron, calcium, magnesium and phosphate ions, which may promote the clogging of drip irrigation systems.

The bicarbonates results are higher than the maximum value previously 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.

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



