

Water Quality Report for Irrigation EFMA Primary Network

| Lab results Responsible Laboratory: ALS Life Sciences Portugal, S.A. Parameters | (Bulletin Units | n° 196962/2025) Results | Water Quality for Irrigation (annex XVI, DL n.° 236/98) Conformity |
|---|--------------------|------------------------------------|---|
| Alkalinity | mg/L CaCO3 | 166 | oomommiy |
| Ammonium | mg/L NH4 | 0.06 | |
| Nitrogen Kjeldahl | mg/L N | 0,96 | |
| Total Nitrogen | mg/L N | 1,22 | |
| Bicarbonates | mg/L CO3H- | 202 | (a) |
| Boron | mg/L B | 0,0322 | |
| Calcium | mg/L Ca | 51,4 | |
| Chloride | mg/L CI | 65 | |
| Total Hardness | mg/L CaCO3 | 204 | |
| Dissolved Iron | mg/L Fe | 0,065 | |
| Phosphates | mg/L P205 | 0,14 | |
| Total Phosphorus | mg/L P | 0,062 | |
| Magnesium | mg/L Mg | 18,4 | |
| Manganese | mg/L Mn | 0,0773 | |
| Nitrates | mg/L NO3 | <l.q. 2<="" td=""><td></td></l.q.> | |
| Nitrites | mg/L NO2 | 0,093 | |
| Potassium | mg/L K | 6,02 | |
| Ratio of Sodium Absorption (SAR) | | 1,2 | |
| Ratio of Sodium Absorption adjusted (SARaj) | | 1,33 | |
| Sodium | mg/L Na | 39,4 | |
| Total Dissolved Solids (TDS) | mg/L | 346 | |
| Total Suspended Solids (TSS) | mg/L | 3,3 | |
| Sulphates | mg/L CO4 | 37,3 | |
| Total Coliforms | UFC/100 mL | 22 | |
| Fecal Coliforms | UFC/100 mL | 19 | |

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.° 236/98) |
|--------------|---|-----------------|---------|---|
| | Parameters | Units | Results | Conformity |
| Temperature | | °C | 20,3 | |
| рН | | Escala Sorensen | 7,9 | |
| Conductivity | | μS/cm | 613 | |

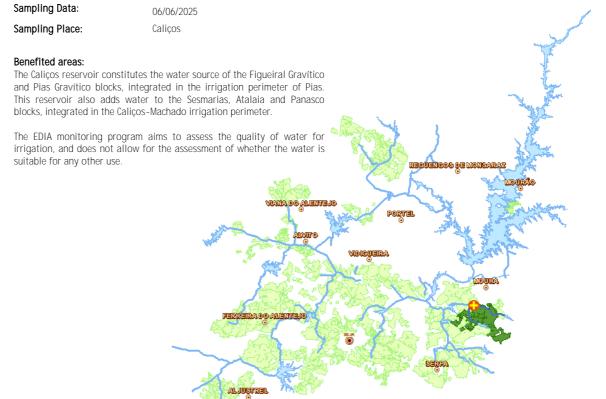
Lower than the VMR (Maximum Value Recommended).

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 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.



