

15/05/2026

| SERVIÇOS MUNICIPALIZADOS DE PENICHE   |   | DADOS DO CONTROLO DA QUALIDADE DA ÁGUA PARA CONSUMO HUMANO NO CONCELHO DE: PENICHE |                        |                          |                                   |                        |                               |                    | 1º Trimestre |                              |                               |     |
|---|---|--|------------------------|--------------------------|-----------------------------------|------------------------|-------------------------------|--------------------|--------------|------------------------------|-------------------------------|-----|
|   |   | Zona de Abastecimento: ZA1_TC_2026   |                        |                          |                                   |                        |                               |                    | 2026         |                              |                               |     |
| Em conformidade com o Decreto-Lei n.º 69/2023, de 21 de agosto, procedeu-se à verificação da qualidade da água da rede pública, através de análises periódicas na torneira do consumidor, segundo o Programa de Controlo da Qualidade da Água (PCQA) aprovado pela autoridade competente (ERSAR). |   |  |                        |                          |                                   |                        |                               |                    |              |                              |                               |     |
| Grupo   | Parâmetro                                   | Nº Amostras PCQA   |                        |                          | Unidades                          | Valor Paramétrico (VP) | Valor Recomendado (Indicador) | Resultados Obtidos |              | Nº amostras superiores ao VP | Análises que cumprem o VP (%) |     |
|   |   | Nº Análises Previstas  | Nº Análises Realizadas | % de Análises Realizadas |                                   |                        |                               | Máximos            | Mínimos      |                              |                               |     |
| CR1   | Bacteriais coliformes                       | 5  | 5                      | 100                      | UFC/100ml                         | 5                      | ---                           | 0                  | 0            | 0                            | 100                           |     |
|   | Cloro residual livre                        | 5  | 5                      | 100                      | mg/L Cl <sub>2</sub>              | ---                    | ≥ 0,2 e ≤ 0,5                 | 0,6                | 0,4          | 0                            | 100                           |     |
|   | E. coli                                     | 5  | 5                      | 100                      | UFC/100ml                         | 5                      | ---                           | 0                  | 0            | 0                            | 100                           |     |
|   | Alumínio                                    | 2  | 2                      | 100                      | µg/L Al                           | 200                    | ---                           | 44                 | 19,1         | 0                            | 100                           |     |
|   | Amónia                                      | 2  | 2                      | 100                      | mg/L NH <sub>4</sub> <sup>+</sup> | 2,50                   | ---                           | <0,05              | <0,05        | 0                            | 100                           |     |
|   | AMPA  | 2  | 2                      | 100                      | µg/L                              | 0,1                    | ---                           | <0,030             | <0,030       | 0                            | 100                           |     |
|   | Chumbo                                      | 2  | 2                      | 100                      | Factor diluição                   | 5                      | ---                           | <1                 | <1           | 0                            | 100                           |     |
|   | Clostridium perfringens (incluindo esporos) | 2  | 2                      | 100                      | UFC/100mL                         | 0                      | ---                           | 0                  | 0            | 0                            | 100                           |     |
|   | Condutividade                               | 2  | 2                      | 100                      | µS/cm a 25°C                      | 2500                   | ---                           | 650                | 187          | 0                            | 100                           |     |
|   | Carbono orgânico total (COT)                | 2  | 2                      | 100                      | mg/L C                            | SAA                    | ---                           | 2,06               | 1,30         | 0                            | 100                           |     |
| CR2   | Col   | 2  | 2                      | 100                      | mg/L IndC                         | 20                     | ---                           | <3,0               | <3,0         | 0                            | 100                           |     |
|   | Enterococos intestinais                     | 2  | 2                      | 100                      | UFC/100mL                         | 0                      | ---                           | 0                  | 0            | 0                            | 100                           |     |
|   | Ferro                                       | 2  | 2                      | 100                      | µg/L Fe                           | 200                    | ---                           | 65                 | 36,2         | 0                            | 100                           |     |
|   | Glicose                                     | 2  | 2                      | 100                      | µg/L                              | 0,1                    | ---                           | <0,030             | <0,030       | 0                            | 100                           |     |
|   | Manganês                                    | 2  | 2                      | 100                      | µg/L Mn                           | 50                     | ---                           | <5,0               | <5,0         | 0                            | 100                           |     |
|   | Mercurio                                    | 2  | 2                      | 100                      | µg/L Hg                           | 1                      | ---                           | 0,0507             | <0,0100      | 0                            | 100                           |     |
|   | Nitrato                                     | 2  | 2                      | 100                      | mg/L NO <sub>3</sub> <sup>-</sup> | 50                     | ---                           | 33,7               | 5,6          | 0                            | 100                           |     |
|   | Nitrito                                     | 2  | 2                      | 100                      | mg/L NO <sub>2</sub> <sup>-</sup> | 0,1                    | ---                           | <0,10              | <0,10        | 0                            | 100                           |     |
|   | Número de colónias a 22°C                   | 2  | 2                      | 100                      | UFC/mL                            | SAA                    | ---                           | 1,1                | 0            | 0                            | 100                           |     |
|   | pH  | 2  | 2                      | 100                      | Unidades de pH                    | ≥ 6,5 e ≤ 9,5          | ---                           | 7,8                | 6,5          | 0                            | 100                           |     |
|   | Sabor                                       | 2  | 2                      | 100                      | Factor diluição                   | 5                      | ---                           | <1                 | <1           | 0                            | 100                           |     |
|   | Trihalometanos total (THM)                  | 2  | 2                      | 100                      | µg/L                              | 100                    | ---                           | 52,4               | 52,4         | 0                            | 100                           |     |
|   | Bromoformo                                  | 2  | 2                      | 100                      | µg/L                              | ---                    | ---                           | 16,2               | <0,20        | 0                            | 100                           |     |
|   | Bromodiclorometano                          | 2  | 2                      | 100                      | µg/L                              | ---                    | ---                           | 10,8               | 10,7         | 0                            | 100                           |     |
|   | Dicloroetano                                | 2  | 2                      | 100                      | µg/L                              | ---                    | ---                           | 26,9               | 2,57         | 0                            | 100                           |     |
|   | Dibromoclorometano                          | 2  | 2                      | 100                      | µg/L                              | ---                    | ---                           | 22,6               | 2,36         | 0                            | 100                           |     |
|   | Turvação                                    | 2  | 2                      | 100                      | NFU                               | 4,4                    | ---                           | <1,0               | <1,0         | 0                            | 100                           |     |
|   | CI  | 1,2-dicloroetano   | 0                      | 0                        | ---                               | µg/L                   | 3                             | ---                | ---          | ---                          | 0                             | --- |
|   |   | Alfa total   | 0                      | 0                        | ---                               | µg/L                   | 0,3                           | ---                | ---          | ---                          | 0                             | --- |
|   |   | Ácidos haloacéticos totais (HAAs)  | 0                      | 0                        | ---                               | µg/L                   | ---                           | ---                | ---          | ---                          | 0                             | --- |
| Ácido monobromoaacético   |   | 0  | 0                      | ---                      | µg/L                              | ---                    | ---                           | ---                | ---          | 0                            | ---                           |     |
| Ácido dibromoaacético   |   | 0  | 0                      | ---                      | µg/L                              | ---                    | ---                           | ---                | ---          | 0                            | ---                           |     |
| Ácido tricloroaacético  |   | 0  | 0                      | ---                      | µg/L                              | ---                    | ---                           | ---                | ---          | 0                            | ---                           |     |
| Ácido dibromoaacético   |   | 0  | 0                      | ---                      | µg/L                              | ---                    | ---                           | ---                | ---          | 0                            | ---                           |     |
| Ácido tricloroaacético  |   | 0  | 0                      | ---                      | µg/L                              | ---                    | ---                           | ---                | ---          | 0                            | ---                           |     |
| Antibióticos  |   | 0  | 0                      | ---                      | µg/L Sb                           | 5                      | ---                           | ---                | ---          | 0                            | ---                           |     |
| Arsénio   |   | 0  | 0                      | ---                      | µg/L As                           | 10                     | ---                           | ---                | ---          | 0                            | ---                           |     |
| Benzeno   |   | 0  | 0                      | ---                      | µg/L                              | 1                      | ---                           | ---                | ---          | 0                            | ---                           |     |
| Benzo(a)pireno  |   | 0  | 0                      | ---                      | µg/L                              | ---                    | ---                           | ---                | ---          | 0                            | ---                           |     |
| Bisfenol A  |   | 0  | 0                      | ---                      | µg/L                              | 2,5                    | ---                           | ---                | ---          | 0                            | ---                           |     |
| Boro  |   | 0  | 0                      | ---                      | mg/L B                            | 1                      | ---                           | ---                | ---          | 0                            | ---                           |     |
| Bromados  |   | 0  | 0                      | ---                      | µg/L Br <sub>2</sub>              | 10                     | ---                           | ---                | ---          | 0                            | ---                           |     |
| Cádmio  |   | 0  | 0                      | ---                      | µg/L Cd                           | 5                      | ---                           | ---                | ---          | 0                            | ---                           |     |
| Cálcio  |   | 0  | 0                      | ---                      | mg/L Ca                           | > 100                  | ---                           | ---                | ---          | 0                            | ---                           |     |
| Chumbo  |   | 0  | 0                      | ---                      | µg/L Pb                           | 10                     | ---                           | ---                | ---          | 0                            | ---                           |     |
| Cianeto   |   | 0  | 0                      | ---                      | µg/L CN                           | 50                     | ---                           | ---                | ---          | 0                            | ---                           |     |
| Cloratos  |   | 0  | 0                      | ---                      | mg/L Cl <sub>2</sub>              | 0,7                    | ---                           | ---                | ---          | 0                            | ---                           |     |
| Clorato   |   | 0  | 0                      | ---                      | mg/L Cl <sub>2</sub>              | 200                    | ---                           | ---                | ---          | 0                            | ---                           |     |
| Cloritos  |   | 0  | 0                      | ---                      | mg/L Cl <sub>2</sub>              | 0,7                    | ---                           | ---                | ---          | 0                            | ---                           |     |
| Cobalto   |   | 0  | 0                      | ---                      | mg/L Co                           | 2                      | ---                           | ---                | ---          | 0                            | ---                           |     |
| Crómio  |   | 0  | 0                      | ---                      | µg/L Cr                           | 50                     | ---                           | ---                | ---          | 0                            | ---                           |     |
| Dose Indicativa total   |   | 0  | 0                      | ---                      | mS/cm                             | 0,1                    | ---                           | ---                | ---          | 0                            | ---                           |     |
| Dureza total  |   | 0  | 0                      | ---                      | mg/L CaCO <sub>3</sub>            | ---                    | ≥ 150 e ≤ 500                 | ---                | ---          | 0                            | ---                           |     |
| Fluoretos   |   | 0  | 0                      | ---                      | mg/L F                            | 1,5                    | ---                           | ---                | ---          | 0                            | ---                           |     |
| Hidrocarbonetos aromáticos policíclicos (HAP)   |   | 0  | 0                      | ---                      | µg/L                              | 0,1                    | ---                           | ---                | ---          | 0                            | ---                           |     |
| Benzo(a)fluoranteno   |   | 0  | 0                      | ---                      | µg/L                              | ---                    | ---                           | ---                | ---          | 0                            | ---                           |     |
| Benzo(k)fluoranteno   |   | 0  | 0                      | ---                      | µg/L                              | ---                    | ---                           | ---                | ---          | 0                            | ---                           |     |
| Benzo(g,h,i)perileno  | 0   | 0  | ---                    | µg/L                     | ---                               | ---                    | ---                           | ---                | 0            | ---                          |                               |     |
| Indeno(1,2,3-cd)pireno  | 0   | 0  | ---                    | µg/L                     | ---                               | ---                    | ---                           | ---                | 0            | ---                          |                               |     |
| Magnésio  | 0   | 0  | ---                    | mg/L Mg                  | > 50                              | ---                    | ---                           | ---                | 0            | ---                          |                               |     |
| Níquel  | 0   | 0  | ---                    | µg/L Ni                  | 20                                | ---                    | ---                           | ---                | 0            | ---                          |                               |     |
| Oxidabilidade   | 0   | 0  | ---                    | mg/L O <sub>2</sub>      | 5                                 | ---                    | ---                           | ---                | 0            | ---                          |                               |     |
| Pesticidas totais   | 0   | 1  | ---                    | µg/L                     | 0,50                              | ---                    | <0,03                         | <0,03              | 0            | 100                          |                               |     |
| Aléobro   | 0   | 0  | ---                    | µg/L                     | 0,1                               | ---                    | ---                           | ---                | 0            | ---                          |                               |     |
| Bentazona   | 0   | 0  | ---                    | µg/L                     | 0,1                               | ---                    | ---                           | ---                | 0            | ---                          |                               |     |
| Carbofent   | 0   | 0  | ---                    | µg/L                     | 0,1                               | ---                    | ---                           | ---                | 0            | ---                          |                               |     |
| Dimetiamida-P   | 0   | 0  | ---                    | µg/L                     | 0,1                               | ---                    | ---                           | ---                | 0            | ---                          |                               |     |
| Metolachlor   | 0   | 0  | ---                    | µg/L                     | 0,2                               | ---                    | ---                           | ---                | 0            | ---                          |                               |     |
| Dimetoato   | 0   | 0  | ---                    | µg/L                     | 0,1                               | ---                    | ---                           | ---                | 0            | ---                          |                               |     |
| Dimeteno  | 0   | 0  | ---                    | µg/L                     | 0,1                               | ---                    | ---                           | ---                | 0            | ---                          |                               |     |
| Dicloro   | 0   | 0  | ---                    | µg/L                     | 0,1                               | ---                    | ---                           | ---                | 0            | ---                          |                               |     |
| Imazacriptol  | 0   | 0  | ---                    | µg/L                     | 0,1                               | ---                    | ---                           | ---                | 0            | ---                          |                               |     |
| MCPA  | 0   | 0  | ---                    | µg/L                     | 0,1                               | ---                    | ---                           | ---                | 0            | ---                          |                               |     |
| Metolachlor / Metolachlor-M   | 0   | 0  | ---                    | µg/L                     | 0,1                               | ---                    | ---                           | ---                | 0            | ---                          |                               |     |
| Metolachlor / S-Metolachlor   | 0   | 0  | ---                    | µg/L                     | 0,1                               | ---                    | ---                           | ---                | 0            | ---                          |                               |     |
| Methidatop  | 0   | 0  | ---                    | µg/L                     | 0,1                               | ---                    | ---                           | ---                | 0            | ---                          |                               |     |
| Simazina  | 0   | 0  | ---                    | µg/L                     | 0,1                               | ---                    | ---                           | ---                | 0            | ---                          |                               |     |
| Dimetilmazina   | 0   | 0  | ---                    | µg/L                     | 0,1                               | ---                    | ---                           | ---                | 0            | ---                          |                               |     |
| Tebuconazol   | 0   | 0  | ---                    | µg/L                     | 0,1                               | ---                    | ---                           | ---                | 0            | ---                          |                               |     |
| Tebuconazol   | 0   | 0  | ---                    | µg/L                     | 0,1                               | ---                    | ---                           | ---                | 0            | ---                          |                               |     |
| Desatíferbutilazina   | 0   | 0  | ---                    | µg/L                     | 0,1                               | ---                    | ---                           | ---                | 0            | ---                          |                               |     |
| Total os PFAS   | 0   | 0  | ---                    | µg/L                     | 0,5                               | ---                    | ---                           | ---                | 0            | ---                          |                               |     |
| Soma de PFAS  | 0   | 0  | ---                    | µg/L                     | ---                               | ---                    | ---                           | ---                | 0            | ---                          |                               |     |
| Dúdmio-210  | 0   | 0  | ---                    | Bq/L                     | 0,1                               | ---                    | ---                           | ---                | 0            | ---                          |                               |     |
| Potássio  | 0   | 0  | ---                    | mg/L K                   | SAA                               | ---                    | ---                           | ---                | 0            | ---                          |                               |     |
| Rádio   | 0   | 0  | ---                    | Bq/L                     | 500                               | ---                    | ---                           | ---                | 0            | ---                          |                               |     |
| Rádio-226   | 0   | 0  | ---                    | Bq/L                     | 0,5                               | ---                    | ---                           | ---                | 0            | ---                          |                               |     |
| Rádio   | 0   | 0  | ---                    | µg/L Sr                  | 10                                | ---                    | ---                           | ---                | 0            | ---                          |                               |     |
| Sódio   | 0   | 0  | ---                    | mg/L Na                  | 200                               | ---                    | ---                           | ---                | 0            | ---                          |                               |     |
| Sulfato   | 0   | 0  | ---                    | mg/L SO <sub>4</sub>     | 250                               | ---                    | ---                           | ---                | 0            | ---                          |                               |     |
| Tetracloroetano e Tricloroetano   | 0   | 0  | ---                    | µg/L                     | 10                                | ---                    | ---                           | ---                | 0            | ---                          |                               |     |
| Urânio-234  | 0   | 0  | ---                    | Bq/L                     | 2,8                               | ---                    | ---                           | ---                | 0            | ---                          |                               |     |
| Urânio-238  | 0   | 0  | ---                    | Bq/L                     | 3                                 | ---                    | ---                           | ---                | 0            | ---                          |                               |     |
| <b>TOTAL</b>  |   | <b>63</b>  | <b>64</b>              |                          |                                   |                        |                               |                    |              |                              |                               |     |

**Legenda**  
 >C Valor superior ou inferior ao Limite de Quantificação  
 SAA Sem alteração anormal  
 Abc Valor superior ao limite permitido por lei (valor paramétrico)  
 Abc Valor superior / inferior ao recomendado por lei (parâmetros indicadores)  
 a) A realizar apenas quando o resultado dos parâmetros "alfa total" > 0,10 Bq/L e "Dose Indicativa total" > 0,1 mSv

|  |                                    |                                   |
|--|------------------------------------|-----------------------------------|
| Metodologia de averiguação de causas relativas a incumprimentos: | Causas relativas a incumprimentos: | Medidas corretivas implementadas: |
|--|------------------------------------|-----------------------------------|

O Presidente do Conselho de Administração, O Diretor Delegado, Técnico Responsável  
 Pedro Henrique Lourenço Barata, Sílvia (eng), Mercia Reis (eng)