

SERVIÇOS MUNICIPALIZADOS DE PENICHE		DADOS DO CONTROLO DA QUALIDADE DA ÁGUA PARA CONSUMO HUMANA NO CONCELHO DE: PENICHE								3º Trimestre	
		Zona de Abastecimento: ZA4_TC_2022								2022	
Em conformidade com o Decreto-Lei n.º 306/2007, de 27 de agosto, alterado pelo Decreto-Lei n.º 152/2007, de 7 de dezembro, procedeu-se à verificação da qualidade da água da rede pública, através de análises periódicas na tomeira 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	Bactérias coliformes	6	6	100	UFC/100mL	0	---	0	0	0	100
	Cloro residual livre	6	6	100	mg/L Cl ₂	---	≥ 0,2 e ≤ 0,5	0,6	0,4	---	100
	E. coli	6	6	100	UFC/100mL	0	---	0	0	0	100
	Alumínio	3	3	100	µg/L Al	200	---	19,2	17,6	0	100
	Amónio	3	3	100	mg/L NH ₄ ⁺	0,50	---	<0,05	<0,05	0	100
	Cheiro	3	3	100	Factor diluição	3	---	<1	<1	0	100
	Clostridium perfringens (incluindo esporos)	3	3	100	UFC/100mL	0	---	0	0	0	100
	Condutividade	3	3	100	µS/cm a 20°C	2500	---	574	110	0	100
	Carbono orgânico total (COT)	3	3	100	mg/L C	SAA	---	1,67	1,22	0	100
	Cor	3	3	100	mg/L PtCo	20	---	<3,0	<3,0	0	100
	Enterococos	3	3	100	UFC/100mL	0	---	0	0	0	100
	Ferro	3	3	100	µg/L Fe	200	---	43,0	<20,0	0	100
	Manganês	3	3	100	µg/L Mn	50	---	<4,0	<4,0	0	100
	Nitratos	3	3	100	mg/L NO ₃	50	25	12,7	5,1	0	100
	Nitritos	3	3	100	mg/L NO ₂	0,1	---	<0,10	<0,10	0	100
	Número total de Germes a 22°C	3	3	100	UFC/mL	SAA	100	0	0	0	100
	Número total de Germes a 37°C	3	3	100	UFC/mL	SAA	20	0	0	0	100
	Oxidabilidade	3	3	100	mg/L O ₂	5	---	2,5	<1,0	0	100
pH	3	3	100	Unidades de pH	≥ 6,5 e ≤ 9,5	---	8,3	7,6	0	100	
Sabor	3	3	100	Factor diluição	3	---	<1	<1	0	100	
CR2	Trihalometanos Total	3	3	100	µg/L	100	---	50,4	26,3	0	100
	Bromofórmio	3	3	100	µg/L	---	---	17,1	5,64	---	100
	Clorofórmio	3	3	100	µg/L	---	---	11,6	6,87	---	100
	Bromodlorometano	3	3	100	µg/L	---	---	11,0	6,52	---	100
	Dibromoclorometano	3	3	100	µg/L	---	---	14,6	7,29	---	100
	Turvação	3	3	100	NTU	≤ 1	---	<0,20	<0,20	0	100
	1,2-diclorometano	0	0	---	µg/L	3	---	---	---	0	---
	Alfa total	0	0	---	Bq/L	0,1	---	---	---	0	---
	Antimónio	0	0	---	µg/L Sb	5	---	---	---	0	---
	Ársénio	0	0	---	µg/L As	10	---	---	---	0	---
	Benzeno	0	0	---	µg/L	1	---	---	---	0	---
	Benzof(a)pireno	0	0	---	µg/L	0,01	---	---	---	0	---
	Boro	0	0	---	mg/L B	1	---	---	---	0	---
	Bromatos	0	0	---	µg/L BrO ₃	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	---
	Cianetos	0	0	---	µg/L CN	50	---	---	---	0	---
Cloratos	0	0	---	mg/L Cl	250	---	---	---	0	---	
Cobre	0	0	---	mg/L Cu	2,0	---	---	---	0	---	
Crómio	0	0	---	µg/L Cr	50	---	---	---	0	---	
Dose Indicativa total	0	0	---	mSv/ano	0,1	---	---	---	0	---	
Dureza total	0	0	---	mg/L CaCO ₃	---	≥ 150 e ≤ 500	---	---	---	---	
Fluoretos	0	0	---	mg/L F	1,5	---	---	---	0	---	
Hidrocarbonetos Aromáticos Policíclicos (HAP)	0	0	---	µg/L	0,1	---	---	---	0	---	
Benz(b)fluoranteno	0	0	---	µg/L	0,1	---	---	---	0	---	
Benz(k)fluoranteno	0	0	---	µg/L	0,1	---	---	---	0	---	
Benz(a,h,i)perileno	0	0	---	µg/L	0,1	---	---	---	0	---	
Indeno(1,2,3-cd)pireno	0	0	---	µg/L	0,1	---	---	---	0	---	
Magnésio	0	0	---	mg/L Mg	---	≤ 50	---	---	0	---	
Mercurio	0	0	---	µg/L Hg	1	---	---	---	0	---	
Níquel	0	0	---	µg/L Ni	20	---	---	---	0	---	
C	Pesticidas totais	0	0	---	µg/L	0,5	---	---	---	0	---
	Alacloro	0	0	---	µg/L	---	---	---	---	0	---
	Benlazona	0	0	---	µg/L	---	---	---	---	0	---
	Clorpirifos	1	1	100	µg/L	0,1	---	<0,0300	<0,0300	0	100
	Dimetoato	1	1	100	µg/L	0,1	---	<0,030	<0,030	0	100
	Ormeotato	1	1	100	µg/L	0,1	---	<0,030	<0,030	0	100
	Diurão	1	1	100	µg/L	0,1	---	<0,030	<0,030	0	100
	Imidaclopride	1	1	100	µg/L	0,1	---	<0,030	<0,030	0	100
	Isoprotrurão	0	0	---	µg/L	---	---	---	---	0	---
	Linurão	0	0	---	µg/L	0,1	---	---	---	0	---
	MCPA	0	0	---	µg/L	0,1	---	---	---	0	---
	Metaxil / Metalxil-M	0	0	---	µg/L	0,1	---	---	---	0	---
	Metolacoro	1	1	100	µg/L	0,1	---	<0,030	<0,030	0	100
	Oxamil	1	1	100	µg/L	0,1	---	<0,050	<0,050	0	100
	Simazina	0	0	---	µg/L	0,1	---	---	---	0	---
	Desetilsimazina	0	0	---	µg/L	0,1	---	---	---	0	---
	Terbutilazina	0	0	---	µg/L	0,1	---	---	---	0	---
	Desetilterbutilazina	0	0	---	µg/L	0,1	---	---	---	0	---
Polónio-210	0	0	---	Bq/L	---	9,1	---	---	0	---	
Radão	0	0	---	Bq/L	500	---	---	---	0	---	
Rádio-226	0	0	---	Bq/L	---	0,5	---	---	0	---	
Selénio	0	0	---	µg/L Se	10	---	---	---	0	---	
Sódio	0	0	---	mg/L Na	200	---	---	---	0	---	
Sulfatos	0	0	---	mg/L SO ₄	250	---	---	---	0	---	
Tetracloroetano	0	0	---	µg/L	10	---	---	---	0	---	
Tricloroetileno	0	0	---	µg/L	10	---	---	---	0	---	
Urânio-234	0	0	---	Bq/L	---	2,8	---	---	0	---	
Urânio-238	0	0	---	Bq/L	---	---	---	---	0	---	
TOTAL		94	94	100							

Legenda
 >/< 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:
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O Presidente do Conselho de Administração, Henrique Bettina Batista Antunes
 O Diretor Delegado, Samuel Dias (eng)
 Técnico Responsável, Márcia Reis (eng)