

PCQA - Plano Controlo Qualidade da Água para Consumo Humano
 1º Trimestre

Data	Zona Abastecimento	Nº Análises Previstas no PCQA	% de Análises Realizadas	Unidades	Valor Paramétrico	Valor Recomendado	Valores Máximos Obtidos	Valores Mínimos Obtidos	% de Análises que cumprem a legislação	2-jan		15-jan		29-jan		12-fev		19-fev		26-fev		12-mar		19-mar		26-mar		
										ZA1_TC_20_14	ZA2_TC_20_14	ZA1_TC_20_14	ZA2_TC_20_14	ZA2_TC_20_14	ZA1_TC_20_14	ZA2_TC_20_14	ZA1_TC_20_14	ZA2_TC_20_14	ZA1_TC_20_14	ZA2_TC_20_14	ZA1_TC_20_14	ZA2_TC_20_14	ZA1_TC_20_14	ZA2_TC_20_14	ZA1_TC_20_14	ZA2_TC_20_14	ZA1_TC_20_14	ZA2_TC_20_14
										ZA1_TC_A_1A_Pastelaria Bom Pecado	ZA_2_3_4_5_TC_4A_Baleal Surf Camp	ZA1_TC_S_5A_Casa Sr Joaquim A. Marques Silva	ZA_2_3_4_5_TC_10A_Casa Sr Dª Olga Luis	ZA_2_3_4_5_TC_12A_Lavandaria Baleia	ZA1_TC_S_6A_Casa do Sr. Néilson Inácio	ZA_2_3_4_5_TC_15A_Casa Sr. David Jorge Martins Brás	ZA1_TC_S_7A_Residencial Katekero II	ZA1_TC_S_8A_Clinica Médica Dr. Vítor Moreira	ZA_2_3_4_5_TC_16A_Mini mercado Praia Mar	ZA1_TC_S_9A_Casa Profª Ana Varela Pena	ZA_2_3_4_5_TC_18A_Casa Sr. Rui Filipe Mili-Homens Quinta	ZA1_TC_A_1A_Lavandaria Beane	ZA_2_3_4_5_TC_20A_Casa do Sr. Paulo Jorge	ZA1_TC_S_5A_Pastelaria Férola de Peniche	ZA_2_3_4_5_TC_21A_Casa Sr. Luciano Jesus Ferreira	ZA_2_3_4_5_TC_21A_Oficina Sr. Vítor Gaspar	ZA1_TC_S_6A_Clinica Médica da Ajuda	
CR1	Bactérias coliformes	18	100	N/100ml	0	---	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	E. coli	18	100	N/100 ml	0	---	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Cloro residual livre	18	100	mg/l	---	> 0,2 e < 0,6	1,5	0,2	100	1,5	0,4	0,4	0,5	0,4	0,2	0,4	0,3	0,2	0,3	0,2	0,4	0,2	0,4	0,3	0,2	0,2	0,3	
CR2	Alumínio	9	100	µg/l Al	200	---	<50 (LQ)	<50 (LQ)	100	< 50	< 50	---	---	< 50	< 50	< 50	---	---	---	< 50	< 50	---	---	---	---	< 50	< 50	
	Amónio	9	100	mg/l NH4	0,5	---	0,07	<0,03 (LQ)	100	0,1	0,06	---	---	< 0,03	< 0,03	0,07	---	---	---	0,04	< 0,03	---	---	---	---	0,04	0,03	
	Cheiro	9	100	Factor de diluição	3	---	<1 (LQ)	<1 (LQ)	100	< 1	< 1	---	---	< 1	< 1	< 1	---	---	---	< 1	< 1	---	---	---	---	< 1	< 1	
	Clostridium perfringens	9	100	N/100ml	0	---	0	0	100	0	0	---	---	0	0	0	---	---	---	0	0	---	---	---	---	0	0	
	Condutividade	9	100	µS/cm a 20°C	2500	---	610	160	100	610	160	---	---	250	250	230	---	---	---	320	340	---	---	---	---	---	210	320
	Cor	9	100	mg/l PtCo	20	---	<5 (LQ)	<5 (LQ)	100	< 5	< 5	---	---	< 5	< 5	< 5	---	---	---	< 5	< 5	---	---	---	---	< 5	< 5	
	Manganés	9	100	µg/l Mn	50	---	<10 (LQ)	<5,0 (LQ)	100	< 5,0	< 5,0	---	---	< 10	< 10	< 10	---	---	---	< 10	< 10	---	---	---	---	< 10	< 10	
	Nitratos	9	100	mg/l NO3	50	---	13	3,1	100	4,5	3,1	---	---	7	6	7	---	---	---	11	13	---	---	---	---	7,7	7,8	
	Número total de Germes a 22°C	9	100	UFC/1ml	SAA ²	100	---	14	<1 (LQ)	100	6,0	14	---	---	< 1	< 1	2	---	---	< 1	< 1	---	---	---	---	7	< 1	
	Número total de Germes a 37°C	9	100	UFC/1 ml	SAA ²	20	---	11	1	100	1,0	11	---	---	< 1	< 1	< 1	---	---	< 1	< 1	---	---	---	---	< 1	< 1	
	pH	9	100	Unidades de pH	>=6,5 e < 9	---	---	8,3	7,5	100	7,5	8,3	---	---	7,9	7,8	7,9	---	---	---	7,7	7,6	---	---	---	---	7,8	7,7
	Turvação, NTU	9	100	NTU	4	---	0,5	<0,2 (LQ)	100	< 0,2	< 0,2	---	---	< 0,2	< 0,2	< 0,2	---	---	---	< 0,2	< 0,2	---	---	---	---	< 0,2	0,5	
	Oxidabilidade	9	100	mg/ L	5	---	<1,5 (LQ)	<1,5 (LQ)	100	< 1,5	< 1,5	---	---	< 1,5	< 1,5	< 1,5	---	---	---	< 1,5	< 1,5	---	---	---	---	< 1,5	1,5	
	Sabor	9	100	Factor de diluição	3	---	<1 (LQ)	<1 (LQ)	100	< 1	< 1	---	---	< 1	< 1	< 1	---	---	---	< 1	< 1	---	---	---	---	< 1	< 1	
1,2-dicloetano	2	100	µg/l	---	---	<1,0 (LQ)	<1,0 (LQ)	100	---	---	---	---	---	---	---	---	---	---	---	<1,0	---	---	---	---	---	< 1,0		
Acetilamida	2	100	µg/l	0,1	---	<0,10 (LQ)	<0,10 (LQ)	100	---	---	---	---	---	---	---	---	---	---	---	< 0,10	---	---	---	---	---	< 0,10		
Antimónio	2	100	µg/l Sb	5	---	<2,5 (LQ)	<2,5 (LQ)	100	---	---	---	---	---	---	---	---	---	---	---	< 2,5	---	---	---	---	---	< 2,5		
Arsénio	2	100	µg/l As	10	---	<1,0 (LQ)	<1,0 (LQ)	100	---	---	---	---	---	---	---	---	---	---	---	<1,0	---	---	---	---	---	<1,0		
Benzeno	2	100	µg/l	1	---	<1,0 (LQ)	<1,0 (LQ)	100	---	---	---	---	---	---	---	---	---	---	---	<1,0	---	---	---	---	---	<1,0		
Benzo(a)pireno	2	100	µg/l	0,01	---	<0,006 (LQ)	<0,006 (LQ)	100	---	---	---	---	---	---	---	---	---	---	---	< 0,006	---	---	---	---	---	< 0,006		
Boro	2	100	mg/l B	1	---	0,05	<0,03(LQ)	100	---	---	---	---	---	---	---	---	---	---	---	< 0,03	---	---	---	---	---	0,05		
Bromatos	2	100	µg/l BrO3	10	---	<5 (LQ)	<5 (LQ)	100	---	---	---	---	---	---	---	---	---	---	---	< 5	---	---	---	---	---	< 5		
Cádmio	2	100	µg/l Cd	5	---	<0,5 (LQ)	<0,5 (LQ)	100	---	---	---	---	---	---	---	---	---	---	---	< 0,5	---	---	---	---	---	< 0,5		
Cálcio	2	100	mg/l Ca	---	---	<100	49	44	100	---	---	---	---	---	---	---	---	---	---	---	49	---	---	---	---	44		
Chumbo	2	100	µg/l Pb	25	---	<2,0 (LQ)	<2,0 (LQ)	100	---	---	---	---	---	---	---	---	---	---	---	< 2,0	---	---	---	---	---	< 2,0		
Cianetos	2	100	µg/l CN	50	---	<10 (LQ)	<10 (LQ)	100	---	---	---	---	---	---	---	---	---	---	---	< 10	---	---	---	---	---	< 10		
Cloretos	2	100	mg/l	250	---	36	31	100	---	---	---	---	---	---	---	---	---	---	---	---	31	---	---	---	---	36		
Cobre	2	100	mg/l	2,0	---	<0,01 (LQ)	<0,01 (LQ)	100	---	---	---	---	---	---	---	---	---	---	---	< 0,01	---	---	---	---	---	< 0,01		
Carbono orgânico total (COT)	2	100	mg/l	---	---	SAA ²	4,1	<1,5 (LQ)	100	---	---	---	---	---	---	---	---	---	---	< 1,5	---	---	---	---	---	4,1		
Crómio	2	100	µg/l Cr	50	---	<10 (LQ)	<10 (LQ)	100	---	---	---	---	---	---	---	---	---	---	---	< 10	---	---	---	---	---	< 10		
Dureza total	2	100	mg/l CaCO3	---	---	150	140	100	---	---	---	---	---	---	---	---	---	---	---	---	150	---	---	---	---	140		
Enterococos	2	100	N/100 ml	0	---	0	0	100	---	---	---	---	---	---	---	---	---	---	---	---	0	---	---	---	---	0		
Ferro	2	100	µg/l Fe	200	---	44	<10 (LQ)	100	---	---	---	---	---	---	---	---	---	---	---	---	44	---	---	---	---	<10		
Fluoretos	2	100	mg/l F	1,5	---	0,1	0,1	100	---	---	---	---	---	---	---	---	---	---	---	---	0,1	---	---	---	---	0,1		

CI	Hidrocarbonetos Aromáticos Policíclicos ⁶ (HAP)	2	100	µg/l	0,1	--	<0,015 (LQ mais elevado)	<0,015 (LQ mais elevado)	100	--	--	--	--	--	--	--	--	--	< 0,015	--	--	--	--	< 0,015
	Benzo(b)fluoranteno ⁶	2	100	µg/l	--	--	<0,015	<0,015	100	--	--	--	--	--	--	--	--	--	< 0,015	--	--	--	--	< 0,015
	Benzo(g,h,i)perileno ⁶	2	100	µg/l	--	--	<0,015	<0,015	100	--	--	--	--	--	--	--	--	--	< 0,015	--	--	--	--	< 0,015
	Benzo(k)fluoranteno ⁶	2	100	µg/l	--	--	<0,015	<0,015	100	--	--	--	--	--	--	--	--	--	< 0,015	--	--	--	--	< 0,015
	Indeno(1,2,3-cd)perileno ⁶	2	100	µg/l	--	--	<0,015	<0,015	100	--	--	--	--	--	--	--	--	--	< 0,015	--	--	--	--	< 0,015
	Magnésio	2	100	mg/l	--	50	7,7	6,4	100	--	--	--	--	--	--	--	--	--	6,4	--	--	--	--	7,7
	Mercurio	2	100	µg/l Hg	1	--	<0,3 (LQ)	<0,3 (LQ)	100	--	--	--	--	--	--	--	--	--	< 0,3	--	--	--	--	< 0,3
	Níquel	2	100	µg/l Ni	--	--	<2,0 (LQ)	<2,0 (LQ)	100	--	--	--	--	--	--	--	--	--	< 2,0	--	--	--	--	< 2,0
	Nitritos	2	100	mg/L NO2	0,5	--	<0,05 (LQ)	<0,05 (LQ)	100	--	--	--	--	--	--	--	--	--	< 0,05	--	--	--	--	< 0,05
	Pesticidas totais ⁵	2	100	µg/l	0,5	--	<0,05 (LQ mais elevado)	<0,05 (LQ mais elevado)	100	--	--	--	--	--	--	--	--	--	< 0,05	--	--	--	--	< 0,05
	Selénio	2	100	µg/l Se	10	--	<1,0 (LQ)	<1,0 (LQ)	100	--	--	--	--	--	--	--	--	--	< 1,0	--	--	--	--	< 1,0
	Sódio	2	100	mg/l Na	200	--	26	26	100	--	--	--	--	--	--	--	--	--	26	--	--	--	--	26
	Linurão ^b	2	100	µg/l	0,1	--	<0,05 (LQ)	<0,05 (LQ)	100	--	--	--	--	--	--	--	--	--	< 0,05	--	--	--	--	< 0,05
	Sulfatos	2	100	mg/l SO4	250	--	48	23	100	--	--	--	--	--	--	--	--	--	23	--	--	--	--	48
	Terbutilazina ^b	2	100	µg/l	0,1	--	<0,05 (LQ)	<0,05 (LQ)	100	--	--	--	--	--	--	--	--	--	< 0,05	--	--	--	--	< 0,05
	Tetracloroetano	2	100	µg/l	--	--	<1,0 (LQ)	<1,0 (LQ)	100	--	--	--	--	--	--	--	--	--	< 1,0	--	--	--	--	< 1,0
	Desetilterbutilazina ^b	2	100	µg/l	0,1	--	<0,05 (LQ)	<0,05 (LQ)	100	--	--	--	--	--	--	--	--	--	< 0,05	--	--	--	--	< 0,05
	Tricloroetano	2	100	µg/l	--	--	<1,0 (LQ)	<1,0 (LQ)	100	--	--	--	--	--	--	--	--	--	< 1,0	--	--	--	--	< 1,0
	Trihalometanos Total ⁴	2	100	µg/l	100	--	43	39	100	--	--	--	--	--	--	--	--	--	39	--	--	--	--	43
	Clorofórmio ^a	2	100	µg/l	--	--	18	15	100	--	--	--	--	--	--	--	--	--	15	--	--	--	--	18
Bromofórmio ^a	2	100	µg/l	--	--	8	7	100	--	--	--	--	--	--	--	--	--	7	--	--	--	--	8	
Bromodiclorometano ^a	2	100	µg/l	--	--	8	8	100	--	--	--	--	--	--	--	--	--	8	--	--	--	--	8	
Dibromoclorometano ^a	2	100	µg/l	--	--	9	9	100	--	--	--	--	--	--	--	--	--	9	--	--	--	--	9	
TOTAL		266																						

Legenda

> Valor superior ao Limite de Quantificação
< Valor inferior ao Limite de Quantificação

Abc Valor superior ao limite permitido por lei (valor paramétrico)

Abc Valor superior / inferior ao recomendado por lei (parâmetros indicadores)

1 Valor inferior ao Limite de Detecção

2 Sem alteração anormal

3 Parâmetros não obrigatórios

4 Somatório das espécies (a)

5 Somatório das espécies (b)

6 Somatório das 2 espécies

7 Somatório das espécies (c)

8 Somatório das espécies (d)

Metodologia de averiguação de causas relativas a incumprimentos:

Não se registaram incumprimentos.

Observações:

Os valores a **laranja** referentes a Cloro Residual Livre não representam incumprimentos mas sim desvios ao valor recomendado (indicador) para o parâmetro.

O valor superior ao Valor Recomendado, obtido no dia 2 de janeiro na ZA1 é concordante com o valor de 1,3 mg/l CL obtido no mesmo dia no ponto de Controlo Operacional Externo. (1A_Largo do Pocinho).

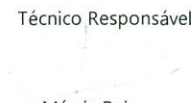
Causas relativas a incumprimentos:

Não se registaram incumprimentos.

Medidas corretivas implementadas:

Não se registaram incumprimentos.


O Diretor-Delegado,
João Vilhena Raminhos


Técnico Responsável
Márcia Reis