

THAMES WATER UTILITIES
WATER QUALITY REPORT - 2014 DATA

Water Supply Zone: S 3			CIRENCESTER			Zone No.: 210		
						Population: 28996		
Time Period: 01/01/2014 to 31/12/2014			Concentration or Value			No. of Samples		% of samples contravening PCV
Date extracted: 10/04/2015			(all samples)			Total	Contra- vening	
Parameter	Units	PCV	Min.	Mean	Max.	Total	Contra- vening	% of samples contravening PCV
Coliform bacteria	no./100ml	0	0	2.792	>201	72	1	1.4
<i>E. coli</i>	no./100ml	0	0	0	0	72	0	0
<i>Enterococci</i>	no./100ml	0	0	0	0	8	0	0
<i>Clostridium perfringens</i>	no./100ml	0	0	0	0	13	0	0
Colony count 22°C	cfu/ml	-	0	1	12	24	0	0
Colony count 37°C	cfu/ml	-	0	0.625	8	24	0	0
Residual Disinfectant	mg/l	-	0.1	0.399	0.75	72	0	0
Colour (Pt/Co scale)	mg/lPt/Co	20	<0.400	<0.767	<0.800	24	0	0
Hydrogen Ion	pH	6.50-9.50	7.2	7.35	7.6	24	0	0
Turbidity	FTU	4	<0.060	0.078	0.14	24	0	0
Conductivity at 20°C	uS/cm	2500	563	614.875	637	24	0	0
Ammonium as NH ₄	mg/l	0.5	0.03	0.03	0.03	25	0	0
Chloride as Cl	mg/l	250	23	25.953	28.02	8	0	0
Sodium as Na	mg/l	200	12	17.138	20.1	8	0	0
Sulphate as SO ₄	mg/l	250	53	59.375	64.4	8	0	0
Nitrate as NO ₃	mg/l	50	4.2	7.05	12.8	8	0	0
Nitrite as NO ₂	mg/l	0.5	<0.010	<0.010	<0.010	8	0	0
Nitrate/Nitrite calculation	mg/l	1	0.09	0.141	0.26	8	0	0
Total Organic Carbon as C	mg/l	-	0.5	0.785	2	13	0	0
Total Hardness as CaCO ₃	mg/l	N/A	328	330	332	3	0	0
Odour (quantatative)	dilution no.	0	0	0	0	12	0	0
Taste (quantatative)	dilution no.	0	0	0	0	12	0	0
Iron as Fe	ug/l	200	<2.000	13.642	29.4	12	0	0
Manganese as Mn	ug/l	50	<0.800	0.938	1.5	8	0	0
Aluminium as Al	ug/l	200	<1.400	<3.088	<6.300	8	0	0
Antimony as Sb	ug/l	5	<0.500	<0.763	<0.800	8	0	0
Arsenic as As	ug/l	10	<0.300	<0.300	<0.300	8	0	0
Cadmium as Cd	ug/l	5	<0.100	<0.113	<0.200	8	0	0
Chromium as Cr	ug/l	50	<0.900	<0.938	<1.200	8	0	0
Copper as Cu	mg/l	2	0.011	0.056	0.109	8	0	0
Lead as Pb	ug/l	10	0.2	0.85	4.1	8	0	0
Mercury as Hg	ug/l	1	<0.090	<0.090	<0.090	13	0	0
Nickel as Ni	ug/l	20	<1.300	<1.338	<1.600	8	0	0
Fluoride as F	mg/l	1.5	0.26	0.356	0.417	8	0	0
Selenium as Se	ug/l	10	<0.800	<0.800	<0.800	8	0	0
Boron as B	mg/l	1	0.048	0.062	0.072	8	0	0
Bromate as BrO ₃	ug/l	10	<0.700	<0.700	<0.700	13	0	0
Cyanide as CN	ug/l	50	<0.700	0.754	1.1	13	0	0
PAHs (Sum of 4 substances)	ug/l	0.1	0	0	0	8	0	0
Benzo (a) pyrene	ug/l	0.01	<0.001	<0.001	<0.001	8	0	0
Trihalomethanes	ug/l	100	6.7	8.375	11	8	0	0
Tetra- & Trichloroethene calc	ug/l	10	0	0	0	8	0	0
Tetrachloromethane	ug/l	3	<0.200	<0.200	<0.200	8	0	0
1,2 dichloroethane	ug/l	3	<0.200	<0.263	<0.300	8	0	0

NOTE: PCV = Prescribed Concentration or Value

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Benzene	ug/l	1	<0.100	<0.100	<0.100	8	0	0
Atrazine	ug/l	0.1	<0.005	<0.005	<0.005	13	0	0
Bentazone	ug/l	0.1	<0.005	<0.005	<0.005	13	0	0
Bromoxynil	ug/l	0.1	<0.004	<0.005	<0.005	13	0	0
Carbetamide	ug/l	0.1	<0.003	<0.003	<0.003	13	0	0
Chlortoluron	ug/l	0.1	<0.003	<0.003	<0.003	13	0	0
Clopyralid	ug/l	0.1	<0.009	<0.010	<0.010	13	0	0
2,4-D	ug/l	0.1	<0.003	<0.004	<0.004	13	0	0
Dicamba	ug/l	0.1	<0.007	<0.007	<0.007	13	0	0
Dichlorprop	ug/l	0.1	<0.003	<0.004	<0.006	13	0	0
Diuron	ug/l	0.1	<0.003	<0.003	<0.003	13	0	0
Fluroxypyr	ug/l	0.1	<0.003	<0.006	<0.006	13	0	0
Isoproturon	ug/l	0.1	<0.004	<0.004	<0.004	13	0	0
Ioxynil	ug/l	0.1	<0.004	<0.005	<0.005	13	0	0
Linuron	ug/l	0.1	<0.004	<0.004	<0.004	13	0	0
Mecoprop	ug/l	0.1	<0.003	<0.007	<0.008	13	0	0
MCPA	ug/l	0.1	<0.004	<0.006	<0.006	13	0	0
MCPB	ug/l	0.1	<0.004	<0.005	<0.008	13	0	0
Pentachlorophenol	ug/l	0.1	<0.003	<0.004	<0.004	13	0	0
Propazine	ug/l	0.1	<0.002	<0.002	<0.002	13	0	0
Prometryn	ug/l	0.1	<0.002	<0.002	<0.002	13	0	0
Propyzamide	ug/l	0.1	<0.004	<0.004	<0.004	13	0	0
Simazine	ug/l	0.1	<0.005	<0.005	<0.005	13	0	0
2,4,5-T	ug/l	0.1	<0.005	<0.005	<0.005	13	0	0
Terbutryn	ug/l	0.1	<0.003	<0.003	<0.003	13	0	0
2,4-DB	ug/l	0.1	<0.004	<0.005	<0.005	13	0	0
Fenoprop	ug/l	0.1	<0.003	<0.004	<0.004	13	0	0
Monuron	ug/l	0.1	<0.003	<0.003	<0.003	13	0	0
Picloram	ug/l	0.1	<0.005	<0.008	<0.008	13	0	0
Triclopyr	ug/l	0.1	<0.005	<0.005	<0.005	13	0	0
Tebuthiuron	ug/l	0.1	<0.002	<0.002	<0.002	13	0	0
Ametryne	ug/l	0.1	<0.002	<0.002	<0.002	13	0	0
Carbendazim	ug/l	0.1	<0.002	<0.002	<0.002	13	0	0
Metaldehyde	ug/l	0.1	<0.005	0.007	0.012	14	0	0
Total Pesticides	ug/l	0.5	0	0.002	0.012	15	0	0

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Commentary on Water Quality:

Very good water quality, however one infringement to report for coliforms. Our investigations showed the infringement for coliforms was transitory and not indicative of the quality of water supplied to this zone.

NOTES:

For some parameters, monitoring occurs at the supplying Water Treatment Works rather than the Water Supply Zone