

THAMES WATER UTILITIES
WATER QUALITY REPORT - 2014 DATA

Water Supply Zone:		S23	FAIRFORD & BIBURY			Zone No.:		288
						Population:		11327
Time Period: 01/01/2014 to 31/12/2014			Concentration or Value (all samples)			No. of Samples		
Date extracted: 10/04/2015								
Parameter	Units	PCV	Min.	Mean	Max.	Total	Contra-vening	% of samples contravening PCV
Coliform bacteria	no./100ml	0	0	0	0	37	0	0
<i>E. coli</i>	no./100ml	0	0	0	0	37	0	0
<i>Enterococci</i>	no./100ml	0	0	0	0	8	0	0
<i>Clostridium perfringens</i>	no./100ml	0	0	0	0	21	0	0
Colony count 22°C	cfu/ml	-	0	0.08	2	25	0	0
Colony count 37°C	cfu/ml	-	0	0.04	1	25	0	0
Residual Disinfectant	mg/l	-	0.17	0.351	0.57	37	0	0
Colour (Pt/Co scale)	mg/lPt/Co	20	<0.200	0.763	1.1	24	0	0
Hydrogen Ion	pH	6.50-9.50	7.2	7.421	7.7	24	0	0
Turbidity	FTU	4	<0.060	0.068	0.08	24	0	0
Conductivity at 20°C	uS/cm	2500	503	520.417	637	24	0	0
Ammonium as NH4	mg/l	0.5	<0.030	<0.030	<0.030	24	0	0
Chloride as Cl	mg/l	250	14.67	17.145	27.74	8	0	0
Sodium as Na	mg/l	200	9	10.913	19.2	8	0	0
Sulphate as SO4	mg/l	250	41.2	46.263	63	8	0	0
Nitrate as NO3	mg/l	50	7.5	11.975	15.9	8	0	0
Nitrite as NO2	mg/l	0.5	<0.010	<0.010	<0.010	8	0	0
Nitrate/Nitrite calculation	mg/l	1	0.15	0.239	0.32	8	0	0
Total Organic Carbon as C	mg/l	-	0.5	0.705	2	21	0	0
Total Hardness as CaCO3	mg/l	N/A	279	281	282	2	0	0
Odour (quantatative)	dilution no.	0	0	0	0	13	0	0
Taste (quantatative)	dilution no.	0	0	0	0	13	0	0
Iron as Fe	ug/l	200	1.3	3.267	17.9	12	0	0
Manganese as Mn	ug/l	50	<0.200	<0.725	<0.800	8	0	0
Aluminium as Al	ug/l	200	<1.400	2.588	3.8	8	0	0
Antimony as Sb	ug/l	5	<0.700	<0.788	<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	<0.100	<0.100	8	0	0
Chromium as Cr	ug/l	50	<0.900	<0.938	<1.200	8	0	0
Copper as Cu	mg/l	2	0.012	0.027	0.04	8	0	0
Lead as Pb	ug/l	10	<0.200	0.65	2.5	8	0	0
Mercury as Hg	ug/l	1	<0.040	<0.088	<0.090	21	0	0
Nickel as Ni	ug/l	20	<1.300	<1.338	<1.600	8	0	0
Fluoride as F	mg/l	1.5	0.148	0.2	0.319	8	0	0
Selenium as Se	ug/l	10	<0.800	<0.800	<0.800	8	0	0
Boron as B	mg/l	1	0.014	0.023	0.064	8	0	0
Bromate as BrO3	ug/l	10	<0.700	0.795	1.9	21	0	0
Cyanide as CN	ug/l	50	<0.700	0.738	1.1	21	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	10	0	0
Trihalomethanes	ug/l	100	0.8	5.788	10.3	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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						Population: 11327		
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Date extracted: 10/04/2015			(all samples)					
Parameter	Units	PCV	Min.	Mean	Max.	Total	Contra-vening	% of samples contravening PCV
Benzene	ug/l	1	<0.100	<0.100	<0.100	8	0	0
Atrazine	ug/l	0.1	<0.005	<0.005	<0.005	21	0	0
Bentazone	ug/l	0.1	<0.005	<0.005	<0.005	21	0	0
Bromoxynil	ug/l	0.1	<0.002	<0.005	<0.005	21	0	0
Carbetamide	ug/l	0.1	<0.003	<0.003	<0.003	21	0	0
Chlortoluron	ug/l	0.1	<0.003	<0.003	<0.003	21	0	0
Clopyralid	ug/l	0.1	<0.009	<0.010	<0.010	21	0	0
2,4-D	ug/l	0.1	<0.003	<0.004	<0.004	21	0	0
Dicamba	ug/l	0.1	<0.007	<0.007	<0.007	21	0	0
Dichlorprop	ug/l	0.1	<0.002	<0.004	<0.006	21	0	0
Diuron	ug/l	0.1	<0.003	<0.003	<0.003	21	0	0
Fluroxypyr	ug/l	0.1	<0.003	<0.006	<0.006	21	0	0
Isoproturon	ug/l	0.1	<0.004	<0.004	<0.004	21	0	0
Ioxynil	ug/l	0.1	<0.002	<0.005	<0.005	21	0	0
Linuron	ug/l	0.1	<0.004	<0.004	<0.004	21	0	0
Mecoprop	ug/l	0.1	<0.003	<0.007	<0.008	21	0	0
MCPA	ug/l	0.1	<0.002	<0.006	<0.006	21	0	0
MCPB	ug/l	0.1	<0.004	<0.005	<0.008	21	0	0
Pentachlorophenol	ug/l	0.1	<0.002	<0.004	<0.004	21	0	0
Propazine	ug/l	0.1	<0.002	<0.002	<0.002	21	0	0
Prometryn	ug/l	0.1	<0.002	<0.002	<0.002	21	0	0
Propyzamide	ug/l	0.1	<0.004	<0.004	<0.004	21	0	0
Simazine	ug/l	0.1	<0.005	<0.005	<0.005	21	0	0
2,4,5-T	ug/l	0.1	<0.003	<0.005	<0.005	21	0	0
Terbutryn	ug/l	0.1	<0.003	<0.003	<0.003	21	0	0
2,4-DB	ug/l	0.1	<0.004	<0.005	<0.005	21	0	0
Fenoprop	ug/l	0.1	<0.003	<0.004	<0.004	21	0	0
Monuron	ug/l	0.1	<0.003	<0.003	<0.003	21	0	0
Picloram	ug/l	0.1	<0.005	<0.007	<0.008	21	0	0
Triclopyr	ug/l	0.1	<0.003	<0.005	<0.005	21	0	0
Tebuthiuron	ug/l	0.1	<0.002	<0.002	<0.002	21	0	0
Ametryne	ug/l	0.1	<0.002	<0.002	<0.002	21	0	0
Carbendazim	ug/l	0.1	<0.002	<0.002	<0.002	21	0	0
Metaldehyde	ug/l	0.1	<0.005	0.006	0.012	22	0	0
Total Pesticides	ug/l	0.5	0	0.002	0.012	23	0	0

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Date extracted: 10/04/2015				

Commentary on Water Quality:

Excellent quality water with no infringements to report for the Water Supply Zone.

NOTES:

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