

**THAMES WATER UTILITIES**  
**WATER QUALITY REPORT - 2014 DATA**

<b>Water Supply Zone:</b> SLW 4 Esher & Chessington			<b>Zone No.:</b> 96			<b>Population:</b> 61469		
<b>Time Period:</b> 01/01/2014 to 31/12/2014			<b>Concentration or Value (all samples)</b>			<b>No. of Samples</b>		
<b>Date extracted:</b> 10/04/2015								
Parameter	Units	PCV	Min.	Mean	Max.	Total	Contra-vening	% of samples contravening PCV
Coliform bacteria	no./100ml	0	0	0.064	6	156	2	1.3
<i>E. coli</i>	no./100ml	0	0	0	0	156	0	0
<i>Enterococci</i>	no./100ml	0	0	0	0	8	0	0
<i>Clostridium perfringens</i>	no./100ml	0	0	0	0	322	0	0
Colony count 22°C	cfu/ml	-	0	7.192	202	52	0	0
Colony count 37°C	cfu/ml	-	0	3.865	124	52	0	0
Residual Disinfectant	mg/l	-	0.19	0.504	0.81	156	0	0
Colour (Pt/Co scale)	mg/lPt/Co	20	<0.800	1.258	3.5	52	0	0
Hydrogen Ion	pH	6.50-9.50	7.4	7.625	8.1	52	0	0
Turbidity	FTU	4	<0.060	0.078	0.15	52	0	0
Conductivity at 20°C	uS/cm	2500	525	560.058	606	52	0	0
Ammonium as NH <sub>4</sub>	mg/l	0.5	<0.030	0.119	0.24	52	0	0
Chloride as Cl	mg/l	250	34.62	39.959	45.19	8	0	0
Sodium as Na	mg/l	200	22.2	26.9	31.3	8	0	0
Sulphate as SO <sub>4</sub>	mg/l	250	39.4	44.65	52.2	8	0	0
Nitrate as NO <sub>3</sub>	mg/l	50	18.7	23.608	27.8	52	0	0
Nitrite as NO <sub>2</sub>	mg/l	0.5	<0.010	0.019	0.09	52	0	0
Nitrate/Nitrite calculation	mg/l	1	0.37	0.477	0.57	52	0	0
Total Organic Carbon as C	mg/l	-	0.5	1.672	3.8	18	0	0
Total Hardness as CaCO <sub>3</sub>	mg/l	N/A	241	256	270	2	0	0
Odour (quantatative)	dilution no.	0	0	0	0	32	0	0
Taste (quantatative)	dilution no.	0	0	0	0	32	0	0
Iron as Fe	ug/l	200	<2.000	3.937	12.1	52	0	0
Manganese as Mn	ug/l	50	<0.200	<0.756	<0.800	52	0	0
Aluminium as Al	ug/l	200	<1.400	5.242	8.4	52	0	0
Antimony as Sb	ug/l	5	<0.700	<0.788	<0.800	8	0	0
Arsenic as As	ug/l	10	0.5	0.813	1.2	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	0.003	0.043	0.257	8	0	0
Lead as Pb	ug/l	10	<0.200	2.05	5.9	8	0	0
Mercury as Hg	ug/l	1	<0.040	<0.089	<0.120	18	0	0
Nickel as Ni	ug/l	20	<1.300	1.538	2.1	8	0	0
Fluoride as F	mg/l	1.5	0.113	0.151	0.178	8	0	0
Selenium as Se	ug/l	10	<0.800	0.813	0.9	8	0	0
Boron as B	mg/l	1	0.046	0.051	0.055	8	0	0
Bromate as BrO <sub>3</sub>	ug/l	10	<0.700	2.468	14.5	19	1	5.3
Cyanide as CN	ug/l	50	<0.700	0.756	1.3	18	0	0
PAHs (Sum of 4 substances)	ug/l	0.1	0	0.001	0.003	8	0	0
Benzo (a) pyrene	ug/l	0.01	<0.001	<0.001	<0.001	8	0	0
Trihalomethanes	ug/l	100	11.9	16.8	23.5	10	0	0
Tetra- & Trichloroethene calc	ug/l	10	0	0	0	9	0	0
Tetrachloromethane	ug/l	3	<0.200	<0.200	<0.200	10	0	0
1,2 dichloroethane	ug/l	3	<0.200	<0.270	<0.300	10	0	0

NOTE: PCV = Prescribed Concentration or Value

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						<b>Population:</b> 61469		
<b>Time Period:</b> 01/01/2014 to 31/12/2014			<b>Concentration or Value</b>			<b>No. of Samples</b>		
<b>Date extracted:</b> 10/04/2015			<b>(all samples)</b>					
Parameter	Units	PCV	Min.	Mean	Max.	Total	Contra-vening	% of samples contravening PCV
Benzene	ug/l	1	<0.100	<0.100	<0.100	10	0	0
Atrazine	ug/l	0.1	<0.005	0.015	0.041	18	0	0
Bentazone	ug/l	0.1	<0.005	<0.005	<0.005	19	0	0
Bromoxynil	ug/l	0.1	<0.002	<0.005	<0.005	19	0	0
Carbetamide	ug/l	0.1	<0.003	<0.003	<0.003	18	0	0
Chlortoluron	ug/l	0.1	<0.003	<0.003	<0.003	18	0	0
Clopyralid	ug/l	0.1	<0.009	<0.010	<0.010	19	0	0
2,4-D	ug/l	0.1	<0.003	<0.004	<0.004	19	0	0
Dicamba	ug/l	0.1	<0.007	<0.007	<0.007	19	0	0
Dichlorprop	ug/l	0.1	<0.002	<0.004	<0.004	19	0	0
Diuron	ug/l	0.1	<0.003	0.004	0.008	18	0	0
Fluroxypyr	ug/l	0.1	<0.003	<0.006	<0.006	19	0	0
Isoproturon	ug/l	0.1	<0.004	<0.004	<0.004	18	0	0
Ioxynil	ug/l	0.1	<0.002	<0.005	<0.005	19	0	0
Linuron	ug/l	0.1	<0.004	<0.004	<0.004	18	0	0
Mecoprop	ug/l	0.1	<0.003	<0.007	<0.008	19	0	0
MCPA	ug/l	0.1	<0.002	<0.006	<0.006	19	0	0
MCPB	ug/l	0.1	<0.004	<0.005	<0.008	19	0	0
Pentachlorophenol	ug/l	0.1	<0.002	<0.004	<0.004	19	0	0
Propazine	ug/l	0.1	<0.002	0.002	0.003	18	0	0
Prometryn	ug/l	0.1	<0.002	<0.002	<0.002	18	0	0
Propyzamide	ug/l	0.1	<0.004	<0.004	<0.004	18	0	0
Simazine	ug/l	0.1	<0.005	0.007	0.013	18	0	0
2,4,5-T	ug/l	0.1	<0.003	<0.005	<0.005	19	0	0
Terbutryn	ug/l	0.1	<0.003	<0.003	<0.003	18	0	0
2,4-DB	ug/l	0.1	<0.004	<0.005	<0.005	19	0	0
Fenoprop	ug/l	0.1	<0.003	<0.004	<0.004	19	0	0
Monuron	ug/l	0.1	<0.003	0.005	0.01	18	0	0
Picloram	ug/l	0.1	<0.005	0.008	0.014	19	0	0
Triclopyr	ug/l	0.1	<0.003	<0.005	<0.005	19	0	0
Tebuthiuron	ug/l	0.1	<0.002	<0.002	<0.002	18	0	0
Ametryne	ug/l	0.1	<0.002	<0.002	<0.002	18	0	0
Carbendazim	ug/l	0.1	<0.002	<0.002	<0.002	18	0	0
Metaldehyde	ug/l	0.1	<0.005	0.026	0.066	18	0	0
Metazachlor	ug/l	0.1	<0.002	<0.002	<0.002	10	0	0
Quinmerac	ug/l	0.1	<0.004	<0.004	<0.004	10	0	0
Total Pesticides	ug/l	0.5	0	0.041	0.099	21	0	0

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<b>Date extracted:</b> 10/04/2015			

**Commentary on Water Quality:**

Very good water quality, however one infringement to report for bromate and two infringement to report for coliforms. Our investigations showed the infringement for bromate was transitory at a supplying asset, one infringement for coliforms was transitory and the other infringement for coliforms was due to customer plumbing. Neither of these infringements were 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