## THAMES WATER UTILITIES WATER QUALITY REPORT - 2014 DATA

Time Period: 01/01/2014 to 31/12/2014  Date extracted: 10/04/2015  Concentration or Value (all samples)  Contra- % of samples	Water Supply Zone: SLW10 BARNES Zone No.: 102									
Parameter   Units	Time Beriod, 04/04/2044 to 3	Population: 46548					1			
Parameter							No. of Samples			
E. coli	Parameter	Units	PCV	Min.	Mean	Max.	Total		% of samples contravening PCV	
Enterococci	Coliform bacteria	no./100ml	0	0	0	0	120	0	0	
Clostridium perfringens   no./100ml   0   0   0   0   0   1393   0   0   0   Colony count 22°C   cfu/ml   -   0   8.676   >300.000   37   0   0   0   0   0   0   0   0   0	E. coli	no./100ml	0	0	0	0	120	0	0	
Colony count 2°C   Ctu/ml   -   0   8.676   >300.000   37   0   0	Enterococci	no./100ml	0	0	0	0	8	0	0	
Colony count 37°C   Ctu/ml   -   0   9.108   >300.000   37   0   0	Clostridium perfringens	no./100ml	0	0	0	0	1393	0	0	
Residual Disinfectant	Colony count 22°C	cfu/ml	-	0	8.676	>300.000	37	0	0	
Colour (Pt/Co scale)   mg/Pt/Co   20   <0.800   1.675   3.8   36   0   0	Colony count 37°C	cfu/ml	•	0	9.108	>300.000	37	0	0	
Hydrogen Ion	Residual Disinfectant	mg/l	-	0.34	0.57	0.79	121	0	0	
Turbidity	Colour (Pt/Co scale)	mg/IPt/Co	20	<0.800	1.675	3.8	36	0	0	
Conductivity at 20°C   US/cm   2500   508   559.167   610   36   0   0	Hydrogen Ion	рН	6.50-9.50	7.5	7.697	8.2	37	0	0	
Ammonium as NH4         mg/l         0.5         0.06         0.137         0.19         36         0         0           Chloride as Cl         mg/l         250         32.51         38.591         44.58         8         0         0           Sodium as Na         mg/l         200         21.7         26.122         31.8         9         0         0           Sulphate as SO4         mg/l         250         40.6         43.563         46.2         8         0         0           Nitrate as NO3         mg/l         50         21.6         24.253         28.5         36         0         0           Nitrate as NO2         mg/l         0.5         0.01         0.016         0.09         36         0         0           Nitrate/Nitrite calculation         mg/l         1         0.43         0.488         0.58         36         0         0           Total Hardness as CaCO3         mg/l         -         1.4         2.206         3.8         106         0         0           Total Hardness as CaCO3         mg/l         N/A         233         255         276         2         0         0           Total Hardness as Ma	Turbidity	FTU	4	<0.060	0.069	0.1	37	0	0	
Chloride as CI         mg/I         250         32.51         38.591         44.58         8         0         0           Sodium as Na         mg/I         200         21.7         26.122         31.8         9         0         0           Sulphate as SO4         mg/I         250         40.6         43.563         46.2         8         0         0           Nitrate as NO2         mg/I         50         21.6         24.253         28.5         36         0         0           Nitrate All Noc         mg/I         1         0.43         0.488         0.58         36         0         0           Nitrate/Nitrite calculation         mg/I         1         0.43         0.488         0.58         36         0         0           Total Organic Carbon as C         mg/I         -         1.4         2.206         3.8         106         0         0           Total Hardness as CaCO3         mg/I         N/A         233         255         276         2         0         0           Odour (quantatative)         dilution no.         0         0         0         18         0         0           Iron as Ee         ug/I	Conductivity at 20°C	uS/cm	2500	508	559.167	610	36	0	0	
Sodium as Na	Ammonium as NH4	mg/l	0.5	0.06	0.137	0.19	36	0	0	
Sulphate as SO4   mg/l   250   40.6   43.563   46.2   8   0   0	Chloride as Cl	mg/l	250	32.51	38.591	44.58	8	0	0	
Nitrate as NO3	Sodium as Na	mg/l	200	21.7	26.122	31.8	9	0	0	
Nitrite as NO2	Sulphate as SO4	mg/l	250	40.6	43.563	46.2	8	0	0	
Nitrate/Nitrite calculation   mg/l   1   0.43   0.488   0.58   36   0   0	Nitrate as NO3	mg/l	50	21.6	24.253	28.5	36	0	0	
Nitrate/Nitrite calculation   mg/l   1   0.43   0.488   0.58   36   0   0   0	Nitrite as NO2		0.5	0.01	0.016	0.09	36	0	0	
Total Organic Carbon as C         mg/l         -         1.4         2.206         3.8         106         0         0           Total Hardness as CaCO3         mg/l         N/A         233         255         276         2         0         0           Odour (quantatative)         dilution no.         0         0         0         0         18         0         0           Iron as Fe         ug/l         200         <2.000	Nitrate/Nitrite calculation	-	1	0.43	0.488	0.58	36	0	0	
Total Hardness as CaCO3         mg/l         N/A         233         255         276         2         0         0           Odour (quantatative)         dilution no.         0         0         0         0         18         0         0           Taste (quantatative)         dilution no.         0         0         0         0         18         0         0           Iron as Fe         ug/l         200         <2.000	Total Organic Carbon as C		-	1.4	2.206	3.8	106	0	0	
Odour (quantatative)         dilution no.         0         0         0         18         0         0           Taste (quantatative)         dilution no.         0         0         0         0         18         0         0           Iron as Fe         ug/l         200         <2.000		_	N/A	233	255	276	2	0	0	
Taste (quantatative)         dilution no.         0         0         0         18         0         0           Iron as Fe         ug/l         200         <2.000	Odour (quantatative)		0					0	0	
Iron as Fe		dilution no.	0	0	0	0	18	0	0	
Manganese as Mn         ug/l         50         <0.200         <0.767         <0.800         36         0         0           Aluminium as Al         ug/l         200         <1.400		ug/l	200	<2.000	3.464	12.7	36	0	0	
Aluminium as Al         ug/l         200         <1.400         6.114         16.6         36         0         0           Antimony as Sb         ug/l         5         <0.700	Manganese as Mn		50	<0.200	<0.767	<0.800	36	0		
Antimony as Sb ug/l 5 <0.700 <0.788 <0.800 8 0 0  Arsenic as As ug/l 10 0.8 1.013 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 0.004 0.022 0.098 8 0 0  Lead as Pb ug/l 10 <0.200 1.15 4.1 8 0 0  Mercury as Hg ug/l 1 <0.040 <0.088 <0.120 106 0 0  Nickel as Ni ug/l 20 <1.300 <1.388 <1.600 8 0 0  Fluoride as F mg/l 1.5 0.117 0.149 0.196 8 0 0  Selenium as Se ug/l 10 <0.800 <0.800 <0.800 8 0 0  Boron as B mg/l 1 0.045 0.052 0.055 8 0 0  Bromate as BrO3 ug/l 10 <0.700 1.079 14.5 107 1 0.9  Cyanide as CN ug/l 0.1 0 0 0.001 8 0 0  Fatra- & Trichloroethene calc ug/l 100 13.7 19 24.4 8 0 0  Tetra- & Trichloroethene calc ug/l 10 0 0 0 8 0 0	· · · · · · · · · · · · · · · · · · ·		200	<1.400	6.114	16.6	36	0	0	
Arsenic as As         ug/l         10         0.8         1.013         1.2         8         0         0           Cadmium as Cd         ug/l         5         <0.100	Antimony as Sb	T T	5	<0.700	<0.788	<0.800	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	•	T T	10				8	0	0	
Chromium as Cr         ug/l         50         <0.900         <0.938         <1.200         8         0         0           Copper as Cu         mg/l         2         0.004         0.022         0.098         8         0         0           Lead as Pb         ug/l         10         <0.200	Cadmium as Cd	1					8	0	0	
Copper as Cu         mg/l         2         0.004         0.022         0.098         8         0         0           Lead as Pb         ug/l         10         <0.200		T T	50				8	0	0	
Lead as Pb         ug/l         10         <0.200         1.15         4.1         8         0         0           Mercury as Hg         ug/l         1         <0.040	Copper as Cu	1	2	0.004	0.022	0.098	8	0	0	
Mercury as Hg         ug/l         1         <0.040         <0.088         <0.120         106         0         0           Nickel as Ni         ug/l         20         <1.300	• • • • • • • • • • • • • • • • • • • •	_		<0.200			8	0	0	
Nickel as Ni         ug/l         20         <1.300         <1.388         <1.600         8         0         0           Fluoride as F         mg/l         1.5         0.117         0.149         0.196         8         0         0           Selenium as Se         ug/l         10         <0.800	Mercury as Hg									
Fluoride as F         mg/l         1.5         0.117         0.149         0.196         8         0         0           Selenium as Se         ug/l         10         <0.800			20							
Selenium as Se         ug/l         10         <0.800         <0.800         <0.800         8         0         0           Boron as B         mg/l         1         0.045         0.052         0.055         8         0         0           Bromate as BrO3         ug/l         10         <0.700							8			
Boron as B         mg/l         1         0.045         0.052         0.055         8         0         0           Bromate as BrO3         ug/l         10         <0.700		·					8	0	0	
Bromate as BrO3         ug/l         10         <0.700         1.079         14.5         107         1         0.9           Cyanide as CN         ug/l         50         <0.700										
Cyanide as CN         ug/l         50         <0.700         0.715         1.1         106         0         0           PAHs (Sum of 4 substances)         ug/l         0.1         0         0         0.001         8         0         0           Benzo (a) pyrene         ug/l         0.01         <0.001		·								
PAHs (Sum of 4 substances)         ug/l         0.1         0         0.001         8         0         0           Benzo (a) pyrene         ug/l         0.01         <0.001		1								
Benzo (a) pyrene         ug/l         0.01         <0.001         <0.001         <0.001         8         0         0           Trihalomethanes         ug/l         100         13.7         19         24.4         8         0         0           Tetra- & Trichloroethene calc         ug/l         10         0         0         8         0         0	•									
Trihalomethanes         ug/l         100         13.7         19         24.4         8         0         0           Tetra- & Trichloroethene calc         ug/l         10         0         0         8         0         0	,	T T								
Tetra- & Trichloroethene calc ug/l 10 0 0 0 8 0 0										
		·								
10.200 10.200 0 0										
1,2 dichloroethane ug/l 3 <0.200 <0.263 <0.300 8 0 0										

## THAMES WATER UTILITIES WATER QUALITY REPORT - 2014 DATA

Water Supply Zone:	SLW10	BARNES	<b>Zone No.:</b> 102						
Popula							46548		
Time Period: 01/01/2014 to 31/12/2014 Date extracted: 10/04/2015			Concentration or Value (all samples)			No. of 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	107	0	0	
Bentazone	ug/l	0.1	<0.005	0.005	0.007	107	0	0	
Bromoxynil	ug/l	0.1	<0.002	<0.005	<0.005	107	0	0	
Carbetamide	ug/l	0.1	<0.003	0.003	0.008	107	0	0	
Chlortoluron	ug/l	0.1	<0.003	<0.003	<0.003	107	0	0	
Clopyralid	ug/l	0.1	<0.009	<0.010	<0.010	107	0	0	
2,4-D	ug/l	0.1	<0.003	<0.004	<0.004	107	0	0	
Dicamba	ug/l	0.1	<0.007	<0.007	<0.007	107	0	0	
Dichlorprop	ug/l	0.1	<0.002	<0.004	<0.006	107	0	0	
Diuron	ug/l	0.1	<0.003	<0.003	<0.003	107	0	0	
Fluroxypyr	ug/l	0.1	<0.003	<0.006	<0.006	107	0	0	
Isoproturon	ug/l	0.1	<0.004	<0.004	<0.004	107	0	0	
loxynil	ug/l	0.1	<0.002	<0.005	<0.005	107	0	0	
Linuron	ug/l	0.1	<0.004	<0.004	<0.004	107	0	0	
Mecoprop	ug/l	0.1	<0.003	<0.007	<0.008	107	0	0	
MCPA	ug/l	0.1	<0.002	<0.006	<0.006	107	0	0	
MCPB	ug/l	0.1	<0.004	<0.005	<0.008	107	0	0	
Pentachlorophenol	ug/l	0.1	<0.002	<0.004	<0.004	107	0	0	
Propazine	ug/l	0.1	<0.002	<0.002	<0.002	106	0	0	
Prometryn	ug/l	0.1	<0.002	<0.002	<0.002	106	0	0	
Propyzamide	ug/l	0.1	<0.004	0.007	0.033	107	0	0	
Simazine	ug/l	0.1	<0.005	<0.005	<0.005	107	0	0	
2,4,5-T	ug/l	0.1	<0.003	<0.005	<0.005	107	0	0	
Terbutryn	ug/l	0.1	<0.003	<0.003	<0.003	106	0	0	
2,4-DB	ug/l	0.1	<0.004	<0.005	<0.005	107	0	0	
Fenoprop	ug/l	0.1	<0.003	<0.004	<0.004	107	0	0	
Monuron	ug/l	0.1	<0.003	<0.003	<0.003	107	0	0	
Picloram	ug/l	0.1	<0.005	0.008	0.01	107	0	0	
Triclopyr	ug/l	0.1	<0.003	<0.005	<0.005	107	0	0	
Tebuthiuron	ug/l	0.1	<0.002	<0.002	<0.002	106	0	0	
Ametryne	ug/l	0.1	<0.002	<0.002	<0.002	106	0	0	
Carbendazim	ug/l	0.1	<0.002	0.002	0.008	107	0	0	
Metaldehyde	ug/l	0.1	0.018	0.039	0.083	106	0	0	
Metazachlor	ug/l	0.1	<0.002	0.003	0.008	106	0	0	
Quinmerac	ug/l	0.1	<0.004	0.006	0.017	107	0	0	
Total Pesticides	ug/l	0.5	0	0.048	0.134	114	0	0	

## THAMES WATER UTILITIES WATER QUALITY REPORT - 2014 DATA

Water Supply Zone: SLW10 **BARNES** Zone No.: 102 Population: 46548 Time Period: 01/01/2014 to 31/12/2014 Date extracted: 10/04/2015 Commentary on Water Quality: Very good water quality, however one infringement to report for bromate. Our investigations showed the infringement for bromate was transitory at a supplying asset and is 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