

THAMES WATER UTILITIES
WATER QUALITY REPORT - 2014 DATA

Water Supply Zone: SLW33 BERRYLANDS & LONG DITTON			Zone No.: 330			Population: 55614		
Time Period: 01/01/2014 to 31/12/2014 Date extracted: 10/04/2015			Concentration or Value (all samples)			No. of Samples		% of samples contravening PCV
Parameter	Units	PCV	Min.	Mean	Max.	Total	Contra- vening	
Coliform bacteria	no./100ml	0	0	0.144	19	132	1	0.8
<i>E. coli</i>	no./100ml	0	0	0	0	132	0	0
<i>Enterococci</i>	no./100ml	0	0	0	0	8	0	0
<i>Clostridium perfringens</i>	no./100ml	0	0	0	0	1425	0	0
Colony count 22°C	cfu/ml	-	0	1.151	26	53	0	0
Colony count 37°C	cfu/ml	-	0	1.642	32	53	0	0
Residual Disinfectant	mg/l	-	0.16	0.557	0.78	132	0	0
Colour (Pt/Co scale)	mg/lPt/Co	20	<0.800	1.369	3.8	52	0	0
Hydrogen Ion	pH	6.50-9.50	7.5	7.663	7.8	52	0	0
Turbidity	FTU	4	<0.060	0.074	0.16	52	0	0
Conductivity at 20°C	uS/cm	2500	528	560.423	602	52	0	0
Ammonium as NH4	mg/l	0.5	<0.030	0.128	0.18	52	0	0
Chloride as Cl	mg/l	250	35.61	39.639	44.93	8	0	0
Sodium as Na	mg/l	200	23.8	26.7	31.9	8	0	0
Sulphate as SO4	mg/l	250	42.3	44.688	47	8	0	0
Nitrate as NO3	mg/l	50	18.9	23.602	26.9	52	0	0
Nitrite as NO2	mg/l	0.5	<0.010	0.016	0.11	52	0	0
Nitrate/Nitrite calculation	mg/l	1	0.38	0.475	0.54	52	0	0
Total Organic Carbon as C	mg/l	-	0.5	2.002	3.8	122	0	0
Total Hardness as CaCO3	mg/l	N/A	241	254	266	2	0	0
Odour (quantatative)	dilution no.	0	0	0	0	26	0	0
Taste (quantatative)	dilution no.	0	0	0	0	26	0	0
Iron as Fe	ug/l	200	<2.000	3.65	15.1	52	0	0
Manganese as Mn	ug/l	50	<0.200	<0.754	<0.800	52	0	0
Aluminium as Al	ug/l	200	<1.400	5.048	8.6	52	0	0
Antimony as Sb	ug/l	5	<0.700	<0.788	<0.800	8	0	0
Arsenic as As	ug/l	10	0.6	0.913	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	0.012	0.039	8	0	0
Lead as Pb	ug/l	10	<0.200	2.15	10	8	0	0
Mercury as Hg	ug/l	1	<0.040	<0.087	<0.120	122	0	0
Nickel as Ni	ug/l	20	<1.300	1.313	1.4	8	0	0
Fluoride as F	mg/l	1.5	<0.060	0.131	0.176	8	0	0
Selenium as Se	ug/l	10	<0.800	0.838	1	8	0	0
Boron as B	mg/l	1	0.046	0.052	0.054	8	0	0
Bromate as BrO3	ug/l	10	<0.700	1.029	14.5	123	1	0.8
Cyanide as CN	ug/l	50	<0.700	0.719	1.3	122	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	0	15	24.6	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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Date extracted: 10/04/2015								
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Benzene	ug/l	1	<0.100	<0.100	<0.100	8	0	0
Atrazine	ug/l	0.1	<0.005	0.008	0.042	123	0	0
Bentazone	ug/l	0.1	<0.005	0.005	0.007	123	0	0
Bromoxynil	ug/l	0.1	<0.002	<0.005	<0.005	123	0	0
Carbetamide	ug/l	0.1	<0.003	0.003	0.008	123	0	0
Chlortoluron	ug/l	0.1	<0.003	<0.003	<0.003	123	0	0
Clopyralid	ug/l	0.1	<0.009	<0.010	<0.010	123	0	0
2,4-D	ug/l	0.1	<0.003	<0.004	<0.004	123	0	0
Dicamba	ug/l	0.1	<0.007	<0.007	<0.007	123	0	0
Dichlorprop	ug/l	0.1	<0.002	<0.004	<0.006	123	0	0
Diuron	ug/l	0.1	<0.003	0.003	0.008	123	0	0
Fluroxypyr	ug/l	0.1	<0.003	<0.006	<0.006	123	0	0
Isoproturon	ug/l	0.1	<0.004	<0.004	<0.004	123	0	0
Ioxynil	ug/l	0.1	<0.002	<0.005	<0.005	123	0	0
Linuron	ug/l	0.1	<0.004	<0.004	<0.004	123	0	0
Mecoprop	ug/l	0.1	<0.003	<0.007	<0.008	123	0	0
MCPA	ug/l	0.1	<0.002	<0.006	<0.006	123	0	0
MCPB	ug/l	0.1	<0.004	<0.005	<0.008	123	0	0
Pentachlorophenol	ug/l	0.1	<0.002	<0.004	<0.004	123	0	0
Propazine	ug/l	0.1	<0.002	0.002	0.003	122	0	0
Prometryn	ug/l	0.1	<0.002	<0.002	<0.002	122	0	0
Propyzamide	ug/l	0.1	<0.004	0.007	0.033	123	0	0
Simazine	ug/l	0.1	<0.005	0.006	0.014	123	0	0
2,4,5-T	ug/l	0.1	<0.003	<0.005	<0.005	123	0	0
Terbutryn	ug/l	0.1	<0.003	<0.003	<0.003	122	0	0
2,4-DB	ug/l	0.1	<0.004	<0.005	<0.005	123	0	0
Fenoprop	ug/l	0.1	<0.003	<0.004	<0.004	123	0	0
Monuron	ug/l	0.1	<0.003	0.004	0.011	123	0	0
Picloram	ug/l	0.1	<0.005	0.008	0.014	123	0	0
Triclopyr	ug/l	0.1	<0.003	<0.005	<0.005	123	0	0
Tebuthiuron	ug/l	0.1	<0.002	<0.002	<0.002	122	0	0
Ametryne	ug/l	0.1	<0.002	<0.002	<0.002	122	0	0
Carbendazim	ug/l	0.1	<0.002	0.002	0.008	123	0	0
Metaldehyde	ug/l	0.1	<0.005	0.035	0.083	122	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	0.049	0.134	130	0	0

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Commentary on Water Quality:

Very good water quality, however one infringement to report for bromate and one infringement to report for coliforms. Our investigations showed the infringement for bromate was transitory at a supplying asset and the 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