

THAMES WATER UTILITIES
WATER QUALITY REPORT - 2014 DATA

Water Supply Zone: SLE14 PETTS WOOD			Zone No.: 72			Population: 60628		
Time Period: 01/01/2014 to 31/12/2014			Concentration or Value (all samples)			No. of Samples		% of samples contravening PCV
Date extracted: 10/04/2015			Min.	Mean	Max.	Total	Contra- vening	
Parameter	Units	PCV						
Coliform bacteria	no./100ml	0	0	0	0	156	0	0
<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	1461	0	0
Colony count 22°C	cfu/ml	-	0	0.615	9	52	0	0
Colony count 37°C	cfu/ml	-	0	1.423	31	52	0	0
Residual Disinfectant	mg/l	-	0.11	0.336	0.6	156	0	0
Colour (Pt/Co scale)	mg/lPt/Co	20	<0.200	0.851	2.8	53	0	0
Hydrogen Ion	pH	6.50-9.50	7.1	7.265	7.6	52	0	0
Turbidity	FTU	4	<0.060	0.071	0.2	52	0	0
Conductivity at 20°C	uS/cm	2500	572	730.057	932	53	0	0
Ammonium as NH4	mg/l	0.5	<0.030	0.041	0.09	52	0	0
Chloride as Cl	mg/l	250	33.92	57.939	115	8	0	0
Sodium as Na	mg/l	200	17.4	34.138	61.3	8	0	0
Sulphate as SO4	mg/l	250	40.8	45.613	56.3	8	0	0
Nitrate as NO3	mg/l	50	22	28.829	35.7	52	0	0
Nitrite as NO2	mg/l	0.5	<0.010	<0.010	<0.010	52	0	0
Nitrate/Nitrite calculation	mg/l	1	0.44	0.577	0.71	52	0	0
Total Organic Carbon as C	mg/l	-	0.3	1.915	3.8	130	0	0
Total Hardness as CaCO3	mg/l	N/A	329	339	349	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	1.4	6.558	75.6	52	0	0
Manganese as Mn	ug/l	50	<0.200	0.763	0.9	52	0	0
Aluminium as Al	ug/l	200	<1.400	4.498	30.6	52	0	0
Antimony as Sb	ug/l	5	<0.700	<0.788	<0.800	8	0	0
Arsenic as As	ug/l	10	0.3	0.475	0.7	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	1.013	1.5	8	0	0
Copper as Cu	mg/l	2	0.005	0.016	0.033	8	0	0
Lead as Pb	ug/l	10	<0.200	1.113	2.4	8	0	0
Mercury as Hg	ug/l	1	<0.040	<0.088	<0.120	130	0	0
Nickel as Ni	ug/l	20	<1.300	<1.300	<1.300	8	0	0
Fluoride as F	mg/l	1.5	0.087	0.12	0.176	8	0	0
Selenium as Se	ug/l	10	<0.800	1.35	2.5	8	0	0
Boron as B	mg/l	1	0.041	0.05	0.062	8	0	0
Bromate as BrO3	ug/l	10	<0.700	1.009	14.5	131	1	0.8
Cyanide as CN	ug/l	50	<0.700	0.882	5.5	130	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	2.3	8.438	12.1	8	0	0
Tetra- & Trichloroethene calc	ug/l	10	0	0.538	1.1	8	0	0
Tetrachloromethane	ug/l	3	<0.100	<0.188	<0.200	8	0	0
1,2 dichloroethane	ug/l	3	<0.200	<0.250	<0.300	8	0	0

NOTE: PCV = Prescribed Concentration or Value

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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	0.006	0.019	131	0	0
Bentazone	ug/l	0.1	<0.005	0.005	0.007	131	0	0
Bromoxynil	ug/l	0.1	<0.002	<0.005	<0.005	131	0	0
Carbetamide	ug/l	0.1	<0.003	0.003	0.008	131	0	0
Chlortoluron	ug/l	0.1	<0.003	0.003	0.007	131	0	0
Clopyralid	ug/l	0.1	<0.009	<0.010	<0.010	131	0	0
2,4-D	ug/l	0.1	<0.003	<0.004	<0.004	131	0	0
Dicamba	ug/l	0.1	<0.007	<0.007	<0.007	131	0	0
Dichlorprop	ug/l	0.1	<0.002	<0.004	<0.006	131	0	0
Diuron	ug/l	0.1	<0.003	0.004	0.013	131	0	0
Fluroxypyr	ug/l	0.1	<0.003	<0.006	<0.006	131	0	0
Isoproturon	ug/l	0.1	<0.004	<0.004	<0.004	131	0	0
Ioxynil	ug/l	0.1	<0.002	<0.005	<0.005	131	0	0
Linuron	ug/l	0.1	<0.004	<0.004	<0.004	131	0	0
Mecoprop	ug/l	0.1	<0.003	<0.007	<0.008	131	0	0
MCPA	ug/l	0.1	<0.002	<0.006	<0.006	131	0	0
MCPB	ug/l	0.1	<0.004	<0.005	<0.008	131	0	0
Pentachlorophenol	ug/l	0.1	<0.002	<0.004	<0.004	131	0	0
Propazine	ug/l	0.1	<0.002	<0.002	<0.002	130	0	0
Prometryn	ug/l	0.1	<0.002	<0.002	<0.002	130	0	0
Propyzamide	ug/l	0.1	<0.004	0.007	0.033	131	0	0
Simazine	ug/l	0.1	<0.005	0.006	0.018	131	0	0
2,4,5-T	ug/l	0.1	<0.003	<0.005	<0.005	131	0	0
Terbutryn	ug/l	0.1	<0.003	<0.003	<0.003	130	0	0
2,4-DB	ug/l	0.1	<0.004	<0.005	<0.005	131	0	0
Fenoprop	ug/l	0.1	<0.003	<0.004	<0.004	131	0	0
Monuron	ug/l	0.1	<0.003	0.003	0.004	131	0	0
Picloram	ug/l	0.1	<0.005	0.008	0.01	131	0	0
Triclopyr	ug/l	0.1	<0.003	<0.005	<0.005	131	0	0
Tebuthiuron	ug/l	0.1	<0.002	<0.002	<0.002	130	0	0
Ametryne	ug/l	0.1	<0.002	<0.002	<0.002	130	0	0
Carbendazim	ug/l	0.1	<0.002	0.002	0.008	131	0	0
Metaldehyde	ug/l	0.1	<0.005	0.033	0.083	130	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	0.044	0.134	140	0	0

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			Population:	60628
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