THAMES WATER UTILITIES
WATER QUALITY REPORT - 2014 DATA

Water Supply Zone: S35 SWINDON SOUTHWEST **Zone No.:** 310

Population: 28239

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**
Coliform bacteria	no./100ml	0	0	0	0	84	0	0
E. coli	no./100ml	0	0	0	0	84	0	0
Enterococci	no./100ml	0	0	0	0	8	0	0
Clostridium perfringens	no./100ml	0	0	0	0	16	0	0
Colony count 22°C	cfu/ml	-	0	9.639	>300.000	36	0	0
Colony count 37°C	cfu/ml	-	0	8.378	>300.000	37	0	0
Residual Disinfectant	mg/l	-	0.11	0.272	0.52	84	0	0
Colour (Pt/Co scale)	mg/lPt/Co	20	0.5	0.819	1.2	36	0	0
Hydrogen Ion	pH	6.50-9.50	7.2	7.342	7.6	36	0	0
Turbidity	FTU	4	<0.060	0.071	0.11	36	0	0
Conductivity at 20°C	uS/cm	2500	521	575.361	685	36	0	0
Ammonium as NH4	mg/l	0.5	0.03	0.03	0.03	36	0	0
Chloride as Cl	mg/l	250	15.86	24.451	35.26	8	0	0
Sodium as Na	mg/l	200	5.3	12.8	20	8	0	0
Sulphate as SO4	mg/l	250	17	40.425	68.5	8	0	0
Nitrate as NO3	mg/l	50	14.7	30.513	42.5	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	0.29	0.61	0.85	8	0	0
Total Organic Carbon as C	mg/l	-	0.5	0.931	1.5	16	0	0
Total Hardness as CaCO3	mg/l	N/A	300	324	347	2	0	0
Odour (quantatative)	dilution no.	0	0	0	0	36	0	0
Taste (quantatative)	dilution no.	0	0	0	0	36	0	0
Iron as Fe	ug/l	200	1.1	2.225	5.3	12	0	0
Manganese as Mn	ug/l	50	<0.200	<0.725	<0.800	8	0	0
Aluminium as Al	ug/l	200	2.7	5.488	10.9	8	0	0
Antimony as Sb	ug/l	5	<0.500	<0.763	<0.800	8	0	0
Arsenic as As	ug/l	10	<0.300	0.563	0.7	8	0	0
Cadmium as Cd	ug/l	5	<0.100	<0.113	<0.200	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	0.024	0.076	8	0	0
Lead as Pb	ug/l	10	<0.200	0.325	0.6	8	0	0
Mercury as Hg	ug/l	1	<0.040	<0.084	<0.090	16	0	0
Nickel as Ni	ug/l	20	<1.300	<1.338	<1.600	8	0	0
Fluoride as F	mg/l	1.5	0.076	0.126	0.192	8	0	0
Selenium as Se	ug/l	10	<0.800	0.838	1	8	0	0
Boron as B	mg/l	1	0.013	0.033	0.05	8	0	0
Bromate as BrO3	ug/l	10	<0.700	<0.700	<0.700	16	0	0
Cyanide as CN	ug/l	50	<0.700	<0.700	<0.700	16	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	9	0	0
Trihalomethanes	ug/l	100	1.1	13.5	22.8	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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			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	16	0	0
Bentazone	ug/l	0.1	<0.005	<0.005	<0.005	16	0	0
Bromoxynil	ug/l	0.1	<0.002	<0.005	<0.005	16	0	0
Carbetamide	ug/l	0.1	<0.003	<0.003	<0.003	16	0	0
Chlortoluron	ug/l	0.1	<0.003	<0.003	<0.003	16	0	0
Clopyralid	ug/l	0.1	<0.009	<0.010	<0.010	16	0	0
2,4-D	ug/l	0.1	<0.003	<0.004	<0.004	16	0	0
Dicamba	ug/l	0.1	<0.007	<0.007	<0.007	16	0	0
Dichlorprop	ug/l	0.1	<0.002	<0.004	<0.006	16	0	0
Diuron	ug/l	0.1	<0.003	<0.003	<0.003	16	0	0
Fluroxypyr	ug/l	0.1	<0.003	<0.005	<0.006	16	0	0
Isoproturon	ug/l	0.1	<0.004	<0.004	<0.004	16	0	0
Ioxynil	ug/l	0.1	<0.002	<0.005	<0.005	16	0	0
Linuron	ug/l	0.1	<0.004	<0.004	<0.004	16	0	0
Mecoprop	ug/l	0.1	<0.003	<0.007	<0.008	16	0	0
MCPA	ug/l	0.1	<0.002	<0.005	<0.006	16	0	0
MCPB	ug/l	0.1	<0.004	<0.005	<0.008	16	0	0
Pentachlorophenol	ug/l	0.1	<0.002	<0.004	<0.004	16	0	0
Propazine	ug/l	0.1	<0.002	<0.002	<0.002	16	0	0
Prometryn	ug/l	0.1	<0.002	<0.002	<0.002	16	0	0
Propyzamide	ug/l	0.1	<0.004	<0.004	<0.004	16	0	0
Simazine	ug/l	0.1	<0.005	<0.005	<0.005	16	0	0
2,4,5-T	ug/l	0.1	<0.003	<0.005	<0.005	16	0	0
Terbutryn	ug/l	0.1	<0.003	<0.003	<0.003	16	0	0
2,4-DB	ug/l	0.1	<0.004	<0.005	<0.005	16	0	0
Fenoprop	ug/l	0.1	<0.003	<0.004	<0.004	16	0	0
Monuron	ug/l	0.1	<0.003	<0.003	<0.003	16	0	0
Picloram	ug/l	0.1	<0.005	<0.007	<0.008	16	0	0
Triclopyr	ug/l	0.1	<0.003	<0.005	<0.005	16	0	0
Tebuthiuron	ug/l	0.1	<0.002	<0.002	<0.002	16	0	0
Ametryne	ug/l	0.1	<0.002	<0.002	<0.002	16	0	0
Carbendazim	ug/l	0.1	<0.002	<0.002	<0.002	16	0	0
Metaldehyde	ug/l	0.1	<0.005	0.006	0.008	16	0	0
Total Pesticides	ug/l	0.5	0	0.001	0.008	16	0	0
Gross alpha activity	Bq/l	0.1	<0.040	0.041	0.05	9	0	0
Gross beta activity	Bq/l	1	<0.030	0.031	0.04	8	0	0

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			Population:	28239

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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

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