

THAMES WATER UTILITIES
WATER QUALITY REPORT - 2014 DATA

Water Supply Zone: S22 SWINDON NORTH			Zone No.: 279			Population: 64185		
Time Period: 01/01/2014 to 31/12/2014			Concentration or Value			No. of Samples		
Date extracted: 10/04/2015			(all samples)					
Parameter	Units	PCV	Min.	Mean	Max.	Total	Contra-vening	% of samples contravening PCV
Coliform bacteria	no./100ml	0	0	0	0	168	0	0
<i>E. coli</i>	no./100ml	0	0	0	0	168	0	0
<i>Enterococci</i>	no./100ml	0	0	0	0	8	0	0
<i>Clostridium perfringens</i>	no./100ml	0	0	0	0	216	0	0
Colony count 22°C	cfu/ml	-	0	1.981	40	53	0	0
Colony count 37°C	cfu/ml	-	0	2.755	78	53	0	0
Residual Disinfectant	mg/l	-	0.09	0.343	0.61	169	0	0
Colour (Pt/Co scale)	mg/lPt/Co	20	<0.200	0.794	1.7	52	0	0
Hydrogen Ion	pH	6.50-9.50	7	7.404	8	53	0	0
Turbidity	FTU	4	<0.060	0.078	0.25	53	0	0
Conductivity at 20°C	uS/cm	2500	486	553.642	715	53	0	0
Ammonium as NH ₄	mg/l	0.5	<0.020	0.03	0.03	53	0	0
Chloride as Cl	mg/l	250	26.75	30.831	34.28	8	0	0
Sodium as Na	mg/l	200	16.2	19.138	21.1	8	0	0
Sulphate as SO ₄	mg/l	250	51.7	59.7	65.4	8	0	0
Nitrate as NO ₃	mg/l	50	14.4	18.763	22.7	8	0	0
Nitrite as NO ₂	mg/l	0.5	<0.010	<0.010	<0.010	8	0	0
Nitrate/Nitrite calculation	mg/l	1	0.29	0.376	0.46	8	0	0
Total Organic Carbon as C	mg/l	-	0.5	1.19	2	20	0	0
Total Hardness as CaCO ₃	mg/l	N/A	271	273	274	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	<1.000	3.148	20	52	0	0
Manganese as Mn	ug/l	50	<0.200	0.788	2.1	52	0	0
Aluminium as Al	ug/l	200	<1.400	7.873	38.3	52	0	0
Antimony as Sb	ug/l	5	<0.500	<0.763	<0.800	8	0	0
Arsenic as As	ug/l	10	0.4	0.463	0.6	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	0.014	0.03	8	0	0
Lead as Pb	ug/l	10	<0.200	0.225	0.3	8	0	0
Mercury as Hg	ug/l	1	<0.090	<0.092	<0.120	20	0	0
Nickel as Ni	ug/l	20	<1.300	1.4	1.8	8	0	0
Fluoride as F	mg/l	1.5	0.113	0.146	0.185	8	0	0
Selenium as Se	ug/l	10	<0.800	0.813	0.9	8	0	0
Boron as B	mg/l	1	0.039	0.045	0.049	8	0	0
Bromate as BrO ₃	ug/l	10	<0.700	0.735	1.1	20	0	0
Cyanide as CN	ug/l	50	<0.700	0.735	1.1	20	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	10	0	0
Trihalomethanes	ug/l	100	13.2	15.238	21	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			(all 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	20	0	0
Bentazone	ug/l	0.1	<0.005	<0.005	<0.005	20	0	0
Bromoxynil	ug/l	0.1	<0.002	<0.005	<0.005	20	0	0
Carbetamide	ug/l	0.1	<0.003	<0.003	<0.003	20	0	0
Chlortoluron	ug/l	0.1	<0.003	<0.003	<0.003	20	0	0
Clopyralid	ug/l	0.1	<0.009	<0.010	<0.010	20	0	0
2,4-D	ug/l	0.1	<0.003	<0.004	<0.004	20	0	0
Dicamba	ug/l	0.1	<0.007	<0.007	<0.007	20	0	0
Dichlorprop	ug/l	0.1	<0.002	<0.004	<0.006	20	0	0
Diuron	ug/l	0.1	<0.003	<0.003	<0.003	20	0	0
Fluroxypyr	ug/l	0.1	<0.003	<0.006	<0.006	20	0	0
Isoproturon	ug/l	0.1	<0.004	<0.004	<0.004	20	0	0
Ioxynil	ug/l	0.1	<0.002	<0.005	<0.005	20	0	0
Linuron	ug/l	0.1	<0.004	<0.004	<0.004	20	0	0
Mecoprop	ug/l	0.1	<0.003	<0.008	<0.008	20	0	0
MCPA	ug/l	0.1	<0.002	<0.006	<0.006	20	0	0
MCPB	ug/l	0.1	<0.004	<0.005	<0.008	20	0	0
Pentachlorophenol	ug/l	0.1	<0.002	<0.004	<0.004	20	0	0
Propazine	ug/l	0.1	<0.002	<0.002	<0.002	20	0	0
Prometryn	ug/l	0.1	<0.002	<0.002	<0.002	20	0	0
Propyzamide	ug/l	0.1	<0.003	<0.004	<0.004	20	0	0
Simazine	ug/l	0.1	<0.005	<0.005	<0.005	20	0	0
2,4,5-T	ug/l	0.1	<0.003	<0.005	<0.005	20	0	0
Terbutryn	ug/l	0.1	<0.003	<0.003	<0.003	20	0	0
2,4-DB	ug/l	0.1	<0.004	<0.005	<0.005	20	0	0
Fenoprop	ug/l	0.1	<0.003	<0.004	<0.004	20	0	0
Monuron	ug/l	0.1	<0.003	<0.003	<0.003	20	0	0
Picloram	ug/l	0.1	<0.005	<0.008	<0.008	20	0	0
Triclopyr	ug/l	0.1	<0.003	<0.005	<0.005	20	0	0
Tebuthiuron	ug/l	0.1	<0.002	<0.002	<0.002	20	0	0
Ametryne	ug/l	0.1	<0.002	<0.002	<0.002	20	0	0
Carbendazim	ug/l	0.1	<0.002	<0.002	<0.002	20	0	0
Metaldehyde	ug/l	0.1	<0.005	0.014	0.045	21	0	0
Metazachlor	ug/l	0.1	<0.002	<0.002	<0.002	12	0	0
Quinmerac	ug/l	0.1	<0.004	<0.004	<0.004	12	0	0
Total Pesticides	ug/l	0.5	0	0.012	0.045	22	0	0
Gross alpha activity	Bq/l	0.1	<0.040	<0.040	<0.040	12	0	0
Gross beta activity	Bq/l	1	0.09	0.251	1.82	12	1	8.3

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			Population:	64185
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Date extracted: 10/04/2015				

Commentary on Water Quality:

Very good water quality, however one infringement to report for gross beta activity. Our investigations (in conjunction with the Environment Agency) showed the infringement for gross beta activity was anomalous at one of our supplying assets (and not likely to recur), and 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