

THAMES WATER UTILITIES
WATER QUALITY REPORT - 2014 DATA

Water Supply Zone: OX 6 CHIPPING NORTON			Zone No.: 198			Population: 6555		
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	3.458	83	24	1	4.2
E. coli	no./100ml	0	0	0.042	1	24	1	4.2
Enterococci	no./100ml	0	0	0	0	8	0	0
Clostridium perfringens	no./100ml	0	0	0	0	417	0	0
Colony count 22°C	cfu/ml	-	0	5.667	64	12	0	0
Colony count 37°C	cfu/ml	-	0	2.083	14	12	0	0
Residual Disinfectant	mg/l	-	0.12	0.334	0.68	24	0	0
Colour (Pt/Co scale)	mg/lPt/Co	20	<0.400	<0.767	<0.800	12	0	0
Hydrogen Ion	pH	6.50-9.50	7.3	7.45	7.6	12	0	0
Turbidity	FTU	4	<0.060	0.094	0.15	12	0	0
Conductivity at 20°C	uS/cm	2500	450	505.5	555	12	0	0
Ammonium as NH4	mg/l	0.5	<0.030	<0.030	<0.030	12	0	0
Chloride as Cl	mg/l	250	29.08	32.39	35.5	8	0	0
Sodium as Na	mg/l	200	16.4	18.589	22.1	9	0	0
Sulphate as SO4	mg/l	250	47.3	64.625	76.5	8	0	0
Nitrate as NO3	mg/l	50	11	13.85	17.9	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	0.22	0.278	0.36	8	0	0
Total Organic Carbon as C	mg/l	-	0.9	1.367	1.6	24	0	0
Total Hardness as CaCO3	mg/l	N/A	203	229	255	2	0	0
Odour (quantatative)	dilution no.	0	0	0	0	6	0	0
Taste (quantatative)	dilution no.	0	0	0	0	6	0	0
Iron as Fe	ug/l	200	6.3	11.758	37.9	12	0	0
Manganese as Mn	ug/l	50	<0.200	0.783	1.2	12	0	0
Aluminium as Al	ug/l	200	3.2	11.017	14	12	0	0
Antimony as Sb	ug/l	5	<0.700	<0.788	<0.800	8	0	0
Arsenic as As	ug/l	10	0.5	0.575	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	<0.938	<1.200	8	0	0
Copper as Cu	mg/l	2	<0.004	0.023	0.054	8	0	0
Lead as Pb	ug/l	10	<0.200	0.288	0.8	8	0	0
Mercury as Hg	ug/l	1	<0.090	<0.093	<0.120	24	0	0
Nickel as Ni	ug/l	20	<1.300	1.363	1.7	8	0	0
Fluoride as F	mg/l	1.5	0.097	0.116	0.13	8	0	0
Selenium as Se	ug/l	10	<0.800	<0.800	<0.800	8	0	0
Boron as B	mg/l	1	0.038	0.043	0.047	8	0	0
Bromate as BrO3	ug/l	10	<0.700	0.917	1.6	24	0	0
Cyanide as CN	ug/l	50	<0.700	0.729	1.1	24	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	8	0	0
Trihalomethanes	ug/l	100	12.8	19.65	26.6	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								
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	24	0	0
Bentazone	ug/l	0.1	<0.005	<0.005	<0.005	24	0	0
Bromoxynil	ug/l	0.1	<0.002	<0.005	<0.005	24	0	0
Carbetamide	ug/l	0.1	<0.003	<0.003	<0.003	24	0	0
Chlortoluron	ug/l	0.1	<0.003	<0.003	<0.003	24	0	0
Clopyralid	ug/l	0.1	<0.009	<0.010	<0.010	24	0	0
2,4-D	ug/l	0.1	<0.003	<0.004	<0.004	24	0	0
Dicamba	ug/l	0.1	<0.007	<0.007	<0.007	24	0	0
Dichlorprop	ug/l	0.1	<0.002	<0.004	<0.006	24	0	0
Diuron	ug/l	0.1	<0.003	<0.003	<0.003	24	0	0
Fluroxypyr	ug/l	0.1	<0.003	<0.006	<0.006	24	0	0
Isoproturon	ug/l	0.1	<0.004	<0.004	<0.004	24	0	0
Ioxynil	ug/l	0.1	<0.002	<0.005	<0.005	24	0	0
Linuron	ug/l	0.1	<0.004	<0.004	<0.004	24	0	0
Mecoprop	ug/l	0.1	<0.003	<0.008	<0.008	24	0	0
MCPA	ug/l	0.1	<0.002	<0.006	<0.006	24	0	0
MCPB	ug/l	0.1	<0.004	<0.005	<0.008	24	0	0
Pentachlorophenol	ug/l	0.1	<0.002	<0.004	<0.004	24	0	0
Propazine	ug/l	0.1	<0.002	<0.002	<0.003	24	0	0
Prometryn	ug/l	0.1	<0.002	<0.002	<0.003	24	0	0
Propyzamide	ug/l	0.1	<0.003	<0.004	<0.004	24	0	0
Simazine	ug/l	0.1	<0.005	<0.005	<0.005	24	0	0
2,4,5-T	ug/l	0.1	<0.003	<0.005	<0.005	24	0	0
Terbutryn	ug/l	0.1	<0.003	<0.003	<0.003	24	0	0
2,4-DB	ug/l	0.1	<0.004	<0.005	<0.005	24	0	0
Fenoprop	ug/l	0.1	<0.003	<0.004	<0.004	24	0	0
Monuron	ug/l	0.1	<0.003	<0.003	<0.003	24	0	0
Picloram	ug/l	0.1	<0.005	<0.008	<0.008	24	0	0
Triclopyr	ug/l	0.1	<0.003	<0.005	<0.005	24	0	0
Tebuthiuron	ug/l	0.1	<0.002	<0.002	<0.003	24	0	0
Ametryne	ug/l	0.1	<0.002	<0.002	<0.003	24	0	0
Carbendazim	ug/l	0.1	<0.002	<0.002	<0.003	24	0	0
Metaldehyde	ug/l	0.1	<0.006	0.02	0.045	24	0	0
Metazachlor	ug/l	0.1	<0.002	<0.002	<0.002	24	0	0
Quinmerac	ug/l	0.1	<0.004	<0.004	<0.004	24	0	0
Total Pesticides	ug/l	0.5	0	0.019	0.045	24	0	0
Gross alpha activity	Bq/l	0.1	<0.040	0.041	0.05	24	0	0
Gross beta activity	Bq/l	1	0.09	0.182	1.82	24	1	4.2

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Water Supply Zone:	OX 6	CHIPPING NORTON	Zone No.:	198
			Population:	6555
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 gross beta activity, one infringement to report for coliforms and one infringement to report for *E. coli*. 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 the infringements for coliforms and *E. coli* were transitory. None 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