THAMES WATER UTILITIES
WATER QUALITY REPORT - 2014 DATA

Water Supply Zone: OX25 FINMERE GODINGTON & LONG MARSTON **Zone No.:** 292 **Population:** 1706

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	12	0	0
E. coli	no./100ml	0	0	0	0	12	0	0
Enterococci	no./100ml	0	0	0	0	4	0	0
Clostridium perfringens	no./100ml	0	0	0	0	4	0	0
Colony count 22°C	cfu/ml	-	0	1.4	5	5	0	0
Colony count 37°C	cfu/ml	-	0	0.8	2	5	0	0
Residual Disinfectant	mg/l	-	0.11	0.23	0.45	12	0	0
Colour (Pt/Co scale)	mg/lPt/Co	20	<0.800	0.825	0.9	4	0	0
Hydrogen Ion	pH	6.50-9.50	7.4	7.525	7.7	4	0	0
Turbidity	FTU	4	0.07	0.09	0.11	4	0	0
Conductivity at 20°C	uS/cm	2500	611	636.25	663	4	0	0
Ammonium as NH4	mg/l	0.5	<0.030	0.085	0.22	4	0	0
Chloride as Cl	mg/l	250	61.81	63.475	64.65	4	0	0
Sodium as Na	mg/l	200	37.6	39.64	41.8	5	0	0
Sulphate as SO4	mg/l	250	106.4	109.725	114.8	4	0	0
Nitrate as NO3	mg/l	50	9.8	13.75	17.8	4	0	0
Nitrite as NO2	mg/l	0.5	0.01	0.12	0.27	4	0	0
Nitrate/Nitrite calculation	mg/l	1	0.23	0.318	0.39	4	0	0
Total Organic Carbon as C	mg/l	-	2.8	3.025	3.3	4	0	0
Total Hardness as CaCO3	mg/l	N/A	244	251	257	2	0	0
Odour (quantatative)	dilution no.	0	0	0	0	2	0	0
Taste (quantatative)	dilution no.	0	0	0	0	2	0	0
Iron as Fe	ug/l	200	8.5	14.883	21	12	0	0
Manganese as Mn	ug/l	50	<0.800	<0.800	<0.800	5	0	0
Aluminium as Al	ug/l	200	<1.400	2.78	4.3	5	0	0
Antimony as Sb	ug/l	5	<0.800	<0.800	<0.800	4	0	0
Arsenic as As	ug/l	10	0.3	0.425	0.5	4	0	0
Cadmium as Cd	ug/l	5	<0.100	<0.100	<0.100	4	0	0
Chromium as Cr	ug/l	50	<0.900	0.92	1	5	0	0
Copper as Cu	mg/l	2	0.007	0.034	0.083	4	0	0
Lead as Pb	ug/l	10	<0.200	0.925	3.1	4	0	0
Mercury as Hg	ug/l	1	<0.090	<0.090	<0.090	4	0	0
Nickel as Ni	ug/l	20	<1.300	2.025	3.2	4	0	0
Fluoride as F	mg/l	1.5	0.223	0.238	0.251	4	0	0
Selenium as Se	ug/l	10	<0.800	0.825	0.9	4	0	0
Boron as B	mg/l	1	0.085	0.089	0.093	5	0	0
Bromate as BrO3	ug/l	10	1.5	2.25	3.3	4	0	0
Cyanide as CN	ug/l	50	<0.700	1.125	2.4	4	0	0
PAHs (Sum of 4 substances)	ug/l	0.1	0	0	0	4	0	0
Benzo (a) pyrene	ug/l	0.01	<0.001	<0.001	<0.001	4	0	0
Trihalomethanes	ug/l	100	12.6	19.35	24.7	4	0	0
Tetra- & Trichloroethene calc	ug/l	10	0	0	0	4	0	0
Tetrachloromethane	ug/l	3	<0.200	<0.200	<0.200	4	0	0
1,2 dichloroethane	ug/l	3	<0.200	<0.250	<0.300	4	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	4	0	0
Atrazine	ug/l	0.1	<0.005	<0.005	<0.005	4	0	0
Bentazone	ug/l	0.1	<0.005	<0.005	<0.005	4	0	0
Bromoxynil	ug/l	0.1	<0.005	<0.005	<0.005	4	0	0
Carbetamide	ug/l	0.1	0.007	0.01	0.012	4	0	0
Chlortoluron	ug/l	0.1	<0.003	<0.003	<0.003	4	0	0
Clopyralid	ug/l	0.1	0.027	0.032	0.04	4	0	0
2,4-D	ug/l	0.1	<0.004	<0.004	<0.004	4	0	0
Dicamba	ug/l	0.1	<0.007	<0.007	<0.007	4	0	0
Dichlorprop	ug/l	0.1	<0.004	<0.004	<0.004	4	0	0
Diuron	ug/l	0.1	<0.003	<0.003	<0.003	4	0	0
Fluroxypyr	ug/l	0.1	<0.006	<0.006	<0.006	4	0	0
Isoproturon	ug/l	0.1	<0.004	<0.004	<0.004	4	0	0
Ioxynil	ug/l	0.1	<0.005	<0.005	<0.005	4	0	0
Linuron	ug/l	0.1	<0.004	<0.004	<0.004	4	0	0
Mecoprop	ug/l	0.1	<0.008	<0.008	<0.008	4	0	0
MCPA	ug/l	0.1	<0.006	<0.006	<0.006	4	0	0
MCPB	ug/l	0.1	<0.004	<0.005	<0.008	4	0	0
Pentachlorophenol	ug/l	0.1	<0.004	<0.004	<0.004	4	0	0
Propazine	ug/l	0.1	<0.002	<0.002	<0.002	4	0	0
Prometryn	ug/l	0.1	<0.002	<0.002	<0.002	4	0	0
Propyzamide	ug/l	0.1	0.007	0.01	0.013	4	0	0
Simazine	ug/l	0.1	<0.005	<0.005	<0.005	4	0	0
2,4,5-T	ug/l	0.1	<0.005	<0.005	<0.005	4	0	0
Terbutryn	ug/l	0.1	<0.003	<0.003	<0.003	4	0	0
2,4-DB	ug/l	0.1	<0.005	<0.005	<0.005	4	0	0
Fenoprop	ug/l	0.1	<0.004	<0.004	<0.004	4	0	0
Monuron	ug/l	0.1	<0.003	<0.003	<0.003	4	0	0
Picloram	ug/l	0.1	<0.008	<0.008	<0.008	4	0	0
Triclopyr	ug/l	0.1	<0.005	<0.005	<0.005	4	0	0
Tebuthiuron	ug/l	0.1	<0.002	<0.002	<0.002	4	0	0
Ametryne	ug/l	0.1	<0.002	<0.002	<0.002	4	0	0
Carbendazim	ug/l	0.1	<0.002	<0.002	<0.002	4	0	0
Metaldehyde	ug/l	0.1	0.081	0.105	0.139	4	2	50
Metazachlor	ug/l	0.1	<0.002	0.004	0.006	4	0	0
Heptachlor	ug/l	0.03	<0.004	<0.004	<0.004	4	0	0
Aldrin	ug/l	0.03	<0.003	<0.003	<0.003	4	0	0
Heptachlor epoxide	ug/l	0.03	<0.002	<0.002	<0.002	4	0	0
Dieldrin	ug/l	0.03	<0.003	<0.003	<0.003	4	0	0
Quinmerac	ug/l	0.1	0.016	0.02	0.025	4	0	0
Total Pesticides	ug/l	0.5	0.154	0.179	0.203	4	0	0
Gross alpha activity	Bq/l	0.1	<0.040	<0.040	<0.040	4	0	0
Gross beta activity	Bq/l	1	0.06	0.175	0.22	4	0	0

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Commentary on Water Quality:

Very good water quality, however two infringements to report for metaldehyde*. Our investigations showed the infringements for metaldehyde were transitory at our supplying assets 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

* Metaldehyde is used by farmers to protect crops from slugs and snails. It can enter watercourses through 'run-off' from fields when rainfall occurs after slug pellets have been applied to agricultural land in the autumn.

Unlike other pesticides, metaldehyde is not easily removed from surface water by conventional treatment process, and as a result has been identified at levels which exceed the regulatory limit in treated water. These concentrations detected are well below levels that pose a risk to health.

Metaldehyde in treated water is an industry-wide issue which we are collectively working with our regulator, the Drinking Water Inspectorate, and users of metaldehyde in order to reduce the amount in water that is being treated.