

**THAMES WATER UTILITIES**  
**WATER QUALITY REPORT - 2014 DATA**

<b>Water Supply Zone:</b> LV 2			GOFFS OAK			<b>Zone No.:</b> 125		
						<b>Population:</b> 25681		
<b>Time Period: 01/01/2014 to 31/12/2014</b>			<b>Concentration or Value (all samples)</b>			<b>No. of Samples</b>		
<b>Date extracted: 10/04/2015</b>			<b>Min.</b>	<b>Mean</b>	<b>Max.</b>	<b>Total</b>	<b>Contra-vening</b>	<b>% of samples contravening PCV</b>
Coliform bacteria	no./100ml	0	0	0	0	72	0	0
<i>E. coli</i>	no./100ml	0	0	0	0	72	0	0
<i>Enterococci</i>	no./100ml	0	0	0	0	8	0	0
<i>Clostridium perfringens</i>	no./100ml	0	0	0	0	461	0	0
Colony count 22°C	cfu/ml	-	0	1.292	9	24	0	0
Colony count 37°C	cfu/ml	-	0	1.958	12	24	0	0
Residual Disinfectant	mg/l	-	0.07	0.312	0.69	72	0	0
Colour (Pt/Co scale)	mg/lPt/Co	20	<0.800	1.008	2.1	24	0	0
Hydrogen Ion	pH	6.50-9.50	7.1	7.538	7.8	24	0	0
Turbidity	FTU	4	0.04	0.083	0.15	24	0	0
Conductivity at 20°C	uS/cm	2500	595	629.875	672	24	0	0
Ammonium as NH <sub>4</sub>	mg/l	0.5	<0.030	0.067	0.16	24	0	0
Chloride as Cl	mg/l	250	44.08	49.474	58.52	8	0	0
Sodium as Na	mg/l	200	29.4	33.3	37.9	8	0	0
Sulphate as SO <sub>4</sub>	mg/l	250	50.5	65.2	97.8	8	0	0
Nitrate as NO <sub>3</sub>	mg/l	50	9.2	20.579	32.1	24	0	0
Nitrite as NO <sub>2</sub>	mg/l	0.5	0.01	0.107	0.24	24	0	0
Nitrate/Nitrite calculation	mg/l	1	0.22	0.447	0.66	24	0	0
Total Organic Carbon as C	mg/l	-	1.5	2.004	3.1	49	0	0
Total Hardness as CaCO <sub>3</sub>	mg/l	N/A	280	281	281	2	0	0
Odour (quantatative)	dilution no.	0	0	0	0	12	0	0
Taste (quantatative)	dilution no.	0	0	0	0	12	0	0
Iron as Fe	ug/l	200	<2.000	5.004	10.4	24	0	0
Manganese as Mn	ug/l	50	<0.200	<0.750	<0.800	24	0	0
Aluminium as Al	ug/l	200	<1.400	6.967	18.7	24	0	0
Antimony as Sb	ug/l	5	<0.500	<0.763	<0.800	8	0	0
Arsenic as As	ug/l	10	0.6	0.975	1.3	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	0.054	0.204	8	0	0
Lead as Pb	ug/l	10	<0.200	0.938	2.7	8	0	0
Mercury as Hg	ug/l	1	<0.040	<0.087	<0.090	48	0	0
Nickel as Ni	ug/l	20	<1.300	2.025	4.5	8	0	0
Fluoride as F	mg/l	1.5	0.158	0.223	0.415	9	0	0
Selenium as Se	ug/l	10	<0.800	0.975	1.4	8	0	0
Boron as B	mg/l	1	0.068	0.074	0.08	8	0	0
Bromate as BrO <sub>3</sub>	ug/l	10	<0.700	1.467	3.4	48	0	0
Cyanide as CN	ug/l	50	<0.700	0.702	0.8	49	0	0
PAHs (Sum of 4 substances)	ug/l	0.1	0	0	0.001	8	0	0
Benzo (a) pyrene	ug/l	0.01	<0.001	<0.001	<0.001	8	0	0
Trihalomethanes	ug/l	100	12.4	16.8	20.1	9	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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						<b>Population:</b> 25681		
<b>Time Period:</b> 01/01/2014 to 31/12/2014			<b>Concentration or Value</b>			<b>No. of Samples</b>		
<b>Date extracted:</b> 10/04/2015			<b>(all samples)</b>					
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	0.01	49	0	0
Bentazone	ug/l	0.1	<0.005	<0.005	<0.005	48	0	0
Bromoxynil	ug/l	0.1	<0.002	<0.005	<0.005	48	0	0
Carbetamide	ug/l	0.1	<0.003	0.003	0.005	49	0	0
Chlortoluron	ug/l	0.1	<0.003	<0.003	<0.003	49	0	0
Clopyralid	ug/l	0.1	<0.009	0.01	0.013	48	0	0
2,4-D	ug/l	0.1	<0.003	<0.004	<0.004	48	0	0
Dicamba	ug/l	0.1	<0.007	<0.007	<0.007	48	0	0
Dichlorprop	ug/l	0.1	<0.002	<0.004	<0.004	48	0	0
Diuron	ug/l	0.1	<0.003	0.003	0.01	49	0	0
Fluroxypyr	ug/l	0.1	<0.003	<0.006	<0.006	48	0	0
Isoproturon	ug/l	0.1	<0.004	<0.004	<0.004	49	0	0
Ioxynil	ug/l	0.1	<0.002	<0.005	<0.005	48	0	0
Linuron	ug/l	0.1	<0.004	<0.004	<0.004	49	0	0
Mecoprop	ug/l	0.1	<0.003	<0.007	<0.008	48	0	0
MCPA	ug/l	0.1	<0.002	<0.006	<0.006	48	0	0
MCPB	ug/l	0.1	<0.004	<0.005	<0.008	48	0	0
Pentachlorophenol	ug/l	0.1	<0.002	<0.004	<0.004	48	0	0
Propazine	ug/l	0.1	<0.002	<0.002	<0.002	48	0	0
Prometryn	ug/l	0.1	<0.002	<0.002	<0.002	48	0	0
Propyzamide	ug/l	0.1	<0.004	0.005	0.011	49	0	0
Simazine	ug/l	0.1	<0.005	0.005	0.007	49	0	0
2,4,5-T	ug/l	0.1	<0.003	<0.005	<0.005	48	0	0
Terbutryn	ug/l	0.1	<0.003	<0.003	<0.003	48	0	0
2,4-DB	ug/l	0.1	<0.004	<0.005	<0.005	48	0	0
Fenoprop	ug/l	0.1	<0.003	<0.004	<0.004	48	0	0
Monuron	ug/l	0.1	<0.003	<0.003	<0.003	49	0	0
Picloram	ug/l	0.1	<0.005	<0.008	<0.008	48	0	0
Triclopyr	ug/l	0.1	<0.003	<0.005	<0.005	48	0	0
Tebuthiuron	ug/l	0.1	<0.002	<0.002	<0.002	48	0	0
Ametryne	ug/l	0.1	<0.002	<0.002	<0.002	48	0	0
Carbendazim	ug/l	0.1	<0.002	0.007	0.259	49	1	2
Metaldehyde	ug/l	0.1	0.025	0.054	0.138	49	6	12.2
Metazachlor	ug/l	0.1	0.002	0.003	0.015	42	0	0
Quinmerac	ug/l	0.1	<0.004	0.007	0.021	42	0	0
Total Pesticides	ug/l	0.5	0.005	0.072	0.354	50	0	0
Gross alpha activity	Bq/l	0.1	0.04	0.043	0.05	12	0	0
Gross beta activity	Bq/l	1	0.08	0.155	0.18	12	0	0

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			<b>Population:</b>	25681
<b>Time Period:</b> 01/01/2014 to 31/12/2014				
<b>Date extracted:</b> 10/04/2015				

**Commentary on Water Quality:**

Very good water quality, however six infringements to report for metaldehyde\* and one infringement to report for carbendazim. Our investigations showed the infringements for metaldehyde and carbendazim 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.