

THAMES WATER UTILITIES
WATER QUALITY REPORT - 2014 DATA

Water Supply Zone: NLE 3 WOODFORD			Zone No.: 3			Population: 47930		
Time Period: 01/01/2014 to 31/12/2014			Concentration or Value (all samples)			No. of Samples		% of samples contravening PCV
Date extracted: 10/04/2015			Min.	Mean	Max.	Total	Contra- vening	
Parameter	Units	PCV						
Coliform bacteria	no./100ml	0	0	0	0	120	0	0
<i>E. coli</i>	no./100ml	0	0	0	0	120	0	0
<i>Enterococci</i>	no./100ml	0	0	0	0	8	0	0
<i>Clostridium perfringens</i>	no./100ml	0	0	0	0	401	0	0
Colony count 22°C	cfu/ml	-	0	2.378	38	37	0	0
Colony count 37°C	cfu/ml	-	0	2.243	28	37	0	0
Residual Disinfectant	mg/l	-	0.27	0.537	0.76	121	0	0
Colour (Pt/Co scale)	mg/lPt/Co	20	<0.800	1.086	2	36	0	0
Hydrogen Ion	pH	6.50-9.50	7.5	7.665	7.9	37	0	0
Turbidity	FTU	4	<0.060	0.071	0.11	36	0	0
Conductivity at 20°C	uS/cm	2500	568	606.917	640	36	0	0
Ammonium as NH ₄	mg/l	0.5	0.08	0.152	0.23	36	0	0
Chloride as Cl	mg/l	250	44.57	49.839	56.31	8	0	0
Sodium as Na	mg/l	200	28.7	32.322	36.5	9	0	0
Sulphate as SO ₄	mg/l	250	48	49.9	53.9	8	0	0
Nitrate as NO ₃	mg/l	50	18	25.653	31.1	36	0	0
Nitrite as NO ₂	mg/l	0.5	0.01	0.071	0.2	36	0	0
Nitrate/Nitrite calculation	mg/l	1	0.38	0.537	0.65	36	0	0
Total Organic Carbon as C	mg/l	-	1.5	2.117	3.1	36	0	0
Total Hardness as CaCO ₃	mg/l	N/A	265	266	267	2	0	0
Odour (quantatative)	dilution no.	0	0	0	0	18	0	0
Taste (quantatative)	dilution no.	0	0	0	0	18	0	0
Iron as Fe	ug/l	200	<2.000	2.408	10.2	37	0	0
Manganese as Mn	ug/l	50	<0.200	<0.751	<0.800	37	0	0
Aluminium as Al	ug/l	200	<1.400	5.651	9.2	37	0	0
Antimony as Sb	ug/l	5	<0.500	<0.770	<0.800	10	0	0
Arsenic as As	ug/l	10	0.9	1.12	1.3	10	0	0
Cadmium as Cd	ug/l	5	<0.100	<0.111	<0.200	9	0	0
Chromium as Cr	ug/l	50	<0.900	<0.938	<1.200	8	0	0
Copper as Cu	mg/l	2	0.007	0.035	0.132	8	0	0
Lead as Pb	ug/l	10	<0.200	2.4	11.7	8	1	12.5
Mercury as Hg	ug/l	1	<0.040	<0.086	<0.090	36	0	0
Nickel as Ni	ug/l	20	1.3	1.8	2.7	8	0	0
Fluoride as F	mg/l	1.5	0.131	0.152	0.184	8	0	0
Selenium as Se	ug/l	10	0.8	1	1.5	10	0	0
Boron as B	mg/l	1	0.06	0.068	0.072	8	0	0
Bromate as BrO ₃	ug/l	10	<0.700	1.311	2	36	0	0
Cyanide as CN	ug/l	50	<0.700	0.703	0.8	36	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	16.9	18.825	20.4	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	0.01	36	0	0
Bentazone	ug/l	0.1	<0.005	<0.005	<0.005	36	0	0
Bromoxynil	ug/l	0.1	<0.002	<0.005	<0.005	36	0	0
Carbetamide	ug/l	0.1	<0.003	0.003	0.005	36	0	0
Chlortoluron	ug/l	0.1	<0.003	<0.003	<0.003	36	0	0
Clopyralid	ug/l	0.1	<0.009	0.011	0.013	36	0	0
2,4-D	ug/l	0.1	<0.003	<0.004	<0.004	36	0	0
Dicamba	ug/l	0.1	<0.007	<0.007	<0.007	36	0	0
Dichlorprop	ug/l	0.1	<0.002	<0.004	<0.004	36	0	0
Diuron	ug/l	0.1	<0.003	0.003	0.01	36	0	0
Fluroxypyr	ug/l	0.1	<0.003	<0.006	<0.006	36	0	0
Isoproturon	ug/l	0.1	<0.004	<0.004	<0.004	36	0	0
Ioxynil	ug/l	0.1	<0.002	<0.005	<0.005	36	0	0
Linuron	ug/l	0.1	<0.004	<0.004	<0.004	36	0	0
Mecoprop	ug/l	0.1	<0.003	<0.007	<0.008	36	0	0
MCPA	ug/l	0.1	<0.002	<0.006	<0.006	36	0	0
MCPB	ug/l	0.1	<0.004	<0.005	<0.008	36	0	0
Pentachlorophenol	ug/l	0.1	<0.002	<0.004	<0.004	36	0	0
Propazine	ug/l	0.1	<0.002	<0.002	<0.002	36	0	0
Prometryn	ug/l	0.1	<0.002	<0.002	<0.002	36	0	0
Propyzamide	ug/l	0.1	<0.004	0.006	0.011	36	0	0
Simazine	ug/l	0.1	<0.005	0.005	0.007	36	0	0
2,4,5-T	ug/l	0.1	<0.003	<0.005	<0.005	36	0	0
Terbutryn	ug/l	0.1	<0.003	<0.003	<0.003	36	0	0
2,4-DB	ug/l	0.1	<0.004	<0.005	<0.005	36	0	0
Fenoprop	ug/l	0.1	<0.003	<0.004	<0.004	36	0	0
Monuron	ug/l	0.1	<0.003	<0.003	<0.003	36	0	0
Picloram	ug/l	0.1	<0.005	<0.008	<0.008	36	0	0
Triclopyr	ug/l	0.1	<0.003	<0.005	<0.005	36	0	0
Tebuthiuron	ug/l	0.1	<0.002	<0.002	<0.002	36	0	0
Ametryne	ug/l	0.1	<0.002	<0.002	<0.002	36	0	0
Carbendazim	ug/l	0.1	<0.002	0.009	0.259	36	1	2.8
Metaldehyde	ug/l	0.1	0.025	0.057	0.138	36	6	16.7
Metazachlor	ug/l	0.1	0.002	0.003	0.015	36	0	0
Quinmerac	ug/l	0.1	<0.004	0.007	0.021	36	0	0
Total Pesticides	ug/l	0.5	0.03	0.083	0.354	36	0	0

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Date extracted: 10/04/2015				

Commentary on Water Quality:

Very good water quality, however six infringements to report for metaldehyde*, one infringement to report for carbendazim and one infringement to report for lead. Our investigations showed the infringements for metaldehyde and carbendazim were transitory at our supplying assets and the infringement for lead was 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

* 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.