THAMES WATER UTILITIES
WATER QUALITY REPORT - 2014 DATA

Water Supply Zone: NLE34 HOLLOWAY **Zone No.:** 373

Population: 66748

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	0.006	1	169	1	0.6
E. coli	no./100ml	0	0	0	0	169	0	0
Enterococci	no./100ml	0	0	0	0	8	0	0
Clostridium perfringens	no./100ml	0	0	0	0	783	0	0
Colony count 22°C	cfu/ml	-	0	3.534	68	58	0	0
Colony count 37°C	cfu/ml	-	0	1.776	22	58	0	0
Residual Disinfectant	mg/l	-	0.22	0.536	0.85	170	0	0
Colour (Pt/Co scale)	mg/lPt/Co	20	<0.800	1.352	4.9	54	0	0
Hydrogen Ion	pH	6.50-9.50	7.5	7.743	7.9	54	0	0
Turbidity	FTU	4	<0.060	0.074	0.21	54	0	0
Conductivity at 20°C	uS/cm	2500	546	580.426	625	54	0	0
Ammonium as NH4	mg/l	0.5	0.03	0.128	0.21	53	0	0
Chloride as Cl	mg/l	250	37.19	43.608	51.04	8	0	0
Sodium as Na	mg/l	200	24.9	29.48	33.6	10	0	0
Sulphate as SO4	mg/l	250	43.3	46.425	50.2	8	0	0
Nitrate as NO3	mg/l	50	19.1	24.155	30.1	53	0	0
Nitrite as NO2	mg/l	0.5	0.01	0.065	0.29	53	0	0
Nitrate/Nitrite calculation	mg/l	1	0.41	0.505	0.61	53	0	0
Total Organic Carbon as C	mg/l	-	1.5	2.124	3.1	72	0	0
Total Hardness as CaCO3	mg/l	N/A	253	262	267	4	0	0
Odour (quantatative)	dilution no.	0	0	0	0	31	0	0
Taste (quantatative)	dilution no.	0	0	0	0	31	0	0
Iron as Fe	ug/l	200	<2.000	2.755	17.7	55	0	0
Manganese as Mn	ug/l	50	<0.200	0.807	2.2	55	0	0
Aluminium as Al	ug/l	200	<1.400	5.856	9.4	55	0	0
Antimony as Sb	ug/l	5	<0.700	<0.790	<0.800	10	0	0
Arsenic as As	ug/l	10	0.8	1.1	1.4	10	0	0
Cadmium as Cd	ug/l	5	<0.100	<0.100	<0.100	10	0	0
Chromium as Cr	ug/l	50	<0.900	<0.930	<1.200	10	0	0
Copper as Cu	mg/l	2	0.004	0.039	0.183	10	0	0
Lead as Pb	ug/l	10	<0.200	1.11	3.6	10	0	0
Mercury as Hg	ug/l	1	<0.040	<0.087	<0.120	72	0	0
Nickel as Ni	ug/l	20	<1.300	1.51	2.3	10	0	0
Fluoride as F	mg/l	1.5	0.123	0.148	0.172	9	0	0
Selenium as Se	ug/l	10	<0.800	0.83	1	10	0	0
Boron as B	mg/l	1	0.053	0.058	0.074	10	0	0
Bromate as BrO3	ug/l	10	<0.700	1.015	2	72	0	0
Cyanide as CN	ug/l	50	<0.700	0.707	1.1	72	0	0
PAHs (Sum of 4 substances)	ug/l	0.1	0	0	0.002	10	0	0
Benzo (a) pyrene	ug/l	0.01	<0.001	<0.001	<0.001	10	0	0
Trihalomethanes	ug/l	100	15.1	18.61	23.2	10	0	0
Tetra- & Trichloroethene calc	ug/l	10	0	0	0	10	0	0
Tetrachloromethane	ug/l	3	<0.200	<0.200	<0.200	10	0	0
1,2 dichloroethane	ug/l	3	<0.200	<0.250	<0.300	10	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	10	0	0
Atrazine	ug/l	0.1	<0.005	0.005	0.01	73	0	0
Bentazone	ug/l	0.1	<0.005	0.005	0.007	72	0	0
Bromoxynil	ug/l	0.1	<0.002	<0.005	<0.005	72	0	0
Carbetamide	ug/l	0.1	<0.003	0.004	0.008	73	0	0
Chlortoluron	ug/l	0.1	<0.003	<0.003	<0.003	73	0	0
Clopyralid	ug/l	0.1	<0.009	0.01	0.013	72	0	0
2,4-D	ug/l	0.1	<0.003	<0.004	<0.004	72	0	0
Dicamba	ug/l	0.1	<0.007	<0.007	<0.007	72	0	0
Dichlorprop	ug/l	0.1	<0.002	<0.004	<0.004	72	0	0
Diuron	ug/l	0.1	<0.003	0.003	0.01	73	0	0
Fluroxypyr	ug/l	0.1	<0.003	<0.006	<0.006	72	0	0
Isoproturon	ug/l	0.1	<0.004	<0.004	<0.004	73	0	0
Ioxynil	ug/l	0.1	<0.002	<0.005	<0.005	72	0	0
Linuron	ug/l	0.1	<0.004	<0.004	<0.004	73	0	0
Mecoprop	ug/l	0.1	<0.003	<0.007	<0.008	72	0	0
MCPA	ug/l	0.1	<0.002	<0.006	<0.006	72	0	0
MCPB	ug/l	0.1	<0.004	<0.005	<0.008	72	0	0
Pentachlorophenol	ug/l	0.1	<0.002	<0.004	<0.004	72	0	0
Propazine	ug/l	0.1	<0.002	<0.002	<0.002	72	0	0
Prometryn	ug/l	0.1	<0.002	<0.002	<0.002	72	0	0
Propyzamide	ug/l	0.1	<0.004	0.007	0.025	73	0	0
Simazine	ug/l	0.1	<0.005	0.005	0.007	73	0	0
2,4,5-T	ug/l	0.1	<0.003	<0.005	<0.005	72	0	0
Terbutryn	ug/l	0.1	<0.003	<0.003	<0.003	72	0	0
2,4-DB	ug/l	0.1	<0.004	<0.005	<0.005	72	0	0
Fenoprop	ug/l	0.1	<0.003	<0.004	<0.004	72	0	0
Monuron	ug/l	0.1	<0.003	<0.003	<0.003	73	0	0
Picloram	ug/l	0.1	<0.005	0.008	0.01	72	0	0
Triclopyr	ug/l	0.1	<0.003	<0.005	<0.005	72	0	0
Tebuthiuron	ug/l	0.1	<0.002	<0.002	<0.002	72	0	0
Ametryne	ug/l	0.1	<0.002	<0.002	<0.002	72	0	0
Carbendazim	ug/l	0.1	<0.002	0.006	0.259	73	1	1.4
Metaldehyde	ug/l	0.1	0.018	0.049	0.138	72	6	8.3
Metazachlor	ug/l	0.1	<0.002	0.003	0.015	72	0	0
Quinmerac	ug/l	0.1	<0.004	0.008	0.021	73	0	0
Total Pesticides	ug/l	0.5	0	0.069	0.354	75	0	0

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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 coliforms. Our investigations showed the infringements for metaldehyde and carbendazim were transitory at our supplying assets, and the infringement for coliforms 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.