

THAMES WATER UTILITIES
WATER QUALITY REPORT - 2014 DATA

Water Supply Zone: NLE20 WANSTEAD PARK			Zone No.: 20			Population: 31753		
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	0	0	84	0	0
E. coli	no./100ml	0	0	0	0	84	0	0
Enterococci	no./100ml	0	0	0	0	8	0	0
Clostridium perfringens	no./100ml	0	0	0	0	407	0	0
Colony count 22°C	cfu/ml	-	0	3.333	39	36	0	0
Colony count 37°C	cfu/ml	-	0	1.5	13	36	0	0
Residual Disinfectant	mg/l	-	0.27	0.554	0.75	84	0	0
Colour (Pt/Co scale)	mg/lPt/Co	20	0.8	0.958	2.2	36	0	0
Hydrogen Ion	pH	6.50-9.50	7.4	7.639	7.9	36	0	0
Turbidity	FTU	4	<0.060	0.072	0.23	36	0	0
Conductivity at 20°C	uS/cm	2500	576	664.611	775	36	0	0
Ammonium as NH4	mg/l	0.5	0.09	0.157	0.22	36	0	0
Chloride as Cl	mg/l	250	45.45	48.938	55.48	8	0	0
Sodium as Na	mg/l	200	27.4	38.963	70.9	8	0	0
Sulphate as SO4	mg/l	250	49.6	68.7	124.8	8	0	0
Nitrate as NO3	mg/l	50	0.5	15.919	28.8	36	0	0
Nitrite as NO2	mg/l	0.5	0.01	0.055	0.18	36	0	0
Nitrate/Nitrite calculation	mg/l	1	<0.020	0.337	0.63	36	0	0
Total Organic Carbon as C	mg/l	-	0.9	1.964	3.1	42	0	0
Total Hardness as CaCO3	mg/l	N/A	250	259	268	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	2.792	6	36	0	0
Manganese as Mn	ug/l	50	<0.200	<0.750	<0.800	36	0	0
Aluminium as Al	ug/l	200	<1.400	5.128	11.4	36	0	0
Antimony as Sb	ug/l	5	<0.700	<0.788	<0.800	8	0	0
Arsenic as As	ug/l	10	0.3	0.888	1.4	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	0.988	1.3	8	0	0
Copper as Cu	mg/l	2	0.004	0.022	0.039	8	0	0
Lead as Pb	ug/l	10	0.4	1.375	2.7	8	0	0
Mercury as Hg	ug/l	1	<0.040	<0.086	<0.090	42	0	0
Nickel as Ni	ug/l	20	<1.300	3.25	5.7	8	0	0
Fluoride as F	mg/l	1.5	0.148	0.308	0.671	8	0	0
Selenium as Se	ug/l	10	<0.800	0.863	1	8	0	0
Boron as B	mg/l	1	0.064	0.094	0.161	8	0	0
Bromate as BrO3	ug/l	10	0.7	1.34	2.3	42	0	0
Cyanide as CN	ug/l	50	<0.700	0.702	0.8	42	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	9	0	0
Trihalomethanes	ug/l	100	5.7	14.878	22.1	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	9	0	0
1,2 dichloroethane	ug/l	3	<0.200	<0.267	<0.300	9	0	0

NOTE: PCV = Prescribed Concentration or Value

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Parameter	Units	PCV	Min.	Mean	Max.	Total	Contra-vening	% of samples contravening PCV
Benzene	ug/l	1	<0.100	<0.100	<0.100	9	0	0
Atrazine	ug/l	0.1	<0.005	0.005	0.01	42	0	0
Bentazone	ug/l	0.1	<0.005	<0.005	<0.005	42	0	0
Bromoxynil	ug/l	0.1	<0.002	<0.005	<0.005	42	0	0
Carbetamide	ug/l	0.1	<0.003	0.003	0.005	42	0	0
Chlortoluron	ug/l	0.1	<0.003	<0.003	<0.003	42	0	0
Clopyralid	ug/l	0.1	<0.009	0.01	0.013	42	0	0
2,4-D	ug/l	0.1	<0.003	<0.004	<0.004	42	0	0
Dicamba	ug/l	0.1	<0.007	<0.007	<0.007	42	0	0
Dichlorprop	ug/l	0.1	<0.002	<0.004	<0.004	42	0	0
Diuron	ug/l	0.1	<0.003	0.003	0.01	42	0	0
Fluroxypyr	ug/l	0.1	<0.003	<0.006	<0.006	42	0	0
Isoproturon	ug/l	0.1	<0.004	<0.004	<0.004	42	0	0
Ioxynil	ug/l	0.1	<0.002	<0.005	<0.005	42	0	0
Linuron	ug/l	0.1	<0.004	<0.004	<0.004	42	0	0
Mecoprop	ug/l	0.1	<0.003	<0.007	<0.008	42	0	0
MCPA	ug/l	0.1	<0.002	<0.006	<0.006	42	0	0
MCPB	ug/l	0.1	<0.004	<0.005	<0.008	42	0	0
Pentachlorophenol	ug/l	0.1	<0.002	<0.004	<0.004	42	0	0
Propazine	ug/l	0.1	<0.002	<0.002	<0.002	42	0	0
Prometryn	ug/l	0.1	<0.002	<0.002	<0.002	42	0	0
Propyzamide	ug/l	0.1	<0.004	0.006	0.011	42	0	0
Simazine	ug/l	0.1	<0.005	0.005	0.007	42	0	0
2,4,5-T	ug/l	0.1	<0.003	<0.005	<0.005	42	0	0
Terbutryn	ug/l	0.1	<0.003	<0.003	<0.003	42	0	0
2,4-DB	ug/l	0.1	<0.004	<0.005	<0.005	42	0	0
Fenoprop	ug/l	0.1	<0.003	<0.004	<0.004	42	0	0
Monuron	ug/l	0.1	<0.003	<0.003	<0.003	42	0	0
Picloram	ug/l	0.1	<0.005	<0.008	<0.008	42	0	0
Triclopyr	ug/l	0.1	<0.003	<0.005	<0.005	42	0	0
Tebuthiuron	ug/l	0.1	<0.002	<0.002	<0.002	42	0	0
Ametryne	ug/l	0.1	<0.002	<0.002	<0.002	42	0	0
Carbendazim	ug/l	0.1	<0.002	0.008	0.259	42	1	2.4
Metaldehyde	ug/l	0.1	<0.006	0.05	0.138	42	6	14.3
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	0.072	0.354	42	0	0
Gross alpha activity	Bq/l	0.1	<0.040	0.042	0.05	6	0	0
Gross beta activity	Bq/l	1	0.23	0.238	0.26	6	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* 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.