THAMES WATER UTILITIES
WATER QUALITY REPORT - 2014 DATA

Water Supply Zone: LV18 BOWES PARK **Zone No.:** 141

Population: 23360

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	72	0	0
E. coli	no./100ml	0	0	0	0	72	0	0
Enterococci	no./100ml	0	0	0	0	8	0	0
Clostridium perfringens	no./100ml	0	0	0	0	1765	0	0
Colony count 22°C	cfu/ml	-	0	6.875	93	24	0	0
Colony count 37°C	cfu/ml	-	0	5.042	67	24	0	0
Residual Disinfectant	mg/l	-	0.28	0.567	0.76	72	0	0
Colour (Pt/Co scale)	mg/lPt/Co	20	0.8	1.258	2.3	24	0	0
Hydrogen Ion	pH	6.50-9.50	7.5	7.671	7.9	24	0	0
Turbidity	FTU	4	<0.060	0.072	0.09	24	0	0
Conductivity at 20°C	uS/cm	2500	551	601	687	24	0	0
Ammonium as NH4	mg/l	0.5	0.1	0.153	0.21	24	0	0
Chloride as Cl	mg/l	250	36.09	46.681	54.13	8	0	0
Sodium as Na	mg/l	200	26.7	31.05	35.1	8	0	0
Sulphate as SO4	mg/l	250	43.7	47.963	51.4	8	0	0
Nitrate as NO3	mg/l	50	19.9	24.654	31.5	24	0	0
Nitrite as NO2	mg/l	0.5	0.01	0.042	0.13	24	0	0
Nitrate/Nitrite calculation	mg/l	1	0.41	0.507	0.63	24	0	0
Total Organic Carbon as C	mg/l	-	0.8	2.173	3.8	143	0	0
Total Hardness as CaCO3	mg/l	N/A	248	257	265	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	2.238	5.7	24	0	0
Manganese as Mn	ug/l	50	<0.200	<0.750	<0.800	24	0	0
Aluminium as Al	ug/l	200	2.4	6.458	14.6	24	0	0
Antimony as Sb	ug/l	5	<0.700	<0.788	<0.800	8	0	0
Arsenic as As	ug/l	10	0.9	1.113	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	<0.938	<1.200	8	0	0
Copper as Cu	mg/l	2	0.005	0.023	0.075	8	0	0
Lead as Pb	ug/l	10	<0.200	1.113	3.2	8	0	0
Mercury as Hg	ug/l	1	<0.040	<0.087	<0.120	143	0	0
Nickel as Ni	ug/l	20	<1.300	1.588	2.1	8	0	0
Fluoride as F	mg/l	1.5	0.121	0.146	0.169	8	0	0
Selenium as Se	ug/l	10	0.8	0.95	1.4	8	0	0
Boron as B	mg/l	1	0.048	0.063	0.07	8	0	0
Bromate as BrO3	ug/l	10	<0.700	1.123	14.5	151	1	0.7
Cyanide as CN	ug/l	50	<0.700	0.712	1.1	143	0	0
PAHs (Sum of 4 substances)	ug/l	0.1	0	0	0	9	0	0
Benzo (a) pyrene	ug/l	0.01	<0.001	<0.001	<0.001	9	0	0
Trihalomethanes	ug/l	100	5.1	16.778	21.3	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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			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	8	0	0
Atrazine	ug/l	0.1	<0.005	0.005	0.01	144	0	0
Bentazone	ug/l	0.1	<0.005	0.005	0.007	144	0	0
Bromoxynil	ug/l	0.1	<0.002	<0.005	<0.005	144	0	0
Carbetamide	ug/l	0.1	<0.003	0.003	0.008	144	0	0
Chlortoluron	ug/l	0.1	<0.003	<0.003	<0.003	144	0	0
Clopyralid	ug/l	0.1	<0.009	0.01	0.013	144	0	0
2,4-D	ug/l	0.1	<0.003	<0.004	<0.004	144	0	0
Dicamba	ug/l	0.1	<0.007	<0.007	<0.007	144	0	0
Dichlorprop	ug/l	0.1	<0.002	<0.004	<0.006	144	0	0
Diuron	ug/l	0.1	<0.003	0.003	0.01	144	0	0
Fluroxypyr	ug/l	0.1	<0.003	<0.006	<0.006	144	0	0
Isoproturon	ug/l	0.1	<0.004	<0.004	<0.004	144	0	0
Ioxynil	ug/l	0.1	<0.002	<0.005	<0.005	144	0	0
Linuron	ug/l	0.1	<0.004	<0.004	<0.004	144	0	0
Mecoprop	ug/l	0.1	<0.003	<0.007	<0.008	144	0	0
MCPA	ug/l	0.1	<0.002	<0.006	<0.006	144	0	0
MCPB	ug/l	0.1	<0.004	<0.005	<0.008	144	0	0
Pentachlorophenol	ug/l	0.1	<0.002	<0.004	<0.004	144	0	0
Propazine	ug/l	0.1	<0.002	<0.002	<0.002	143	0	0
Prometryn	ug/l	0.1	<0.002	<0.002	<0.002	143	0	0
Propyzamide	ug/l	0.1	<0.004	0.007	0.033	144	0	0
Simazine	ug/l	0.1	<0.005	0.005	0.007	144	0	0
2,4,5-T	ug/l	0.1	<0.003	<0.005	<0.005	144	0	0
Terbutryn	ug/l	0.1	<0.003	<0.003	<0.003	143	0	0
2,4-DB	ug/l	0.1	<0.004	<0.005	<0.005	144	0	0
Fenoprop	ug/l	0.1	<0.003	<0.004	<0.004	144	0	0
Monuron	ug/l	0.1	<0.003	<0.003	<0.003	144	0	0
Picloram	ug/l	0.1	<0.005	0.008	0.01	144	0	0
Triclopyr	ug/l	0.1	<0.003	<0.005	<0.005	144	0	0
Tebuthiuron	ug/l	0.1	<0.002	<0.002	<0.002	143	0	0
Ametryne	ug/l	0.1	<0.002	<0.002	<0.002	143	0	0
Carbendazim	ug/l	0.1	<0.002	0.004	0.259	144	1	0.7
Metaldehyde	ug/l	0.1	0.018	0.043	0.138	143	6	4.2
Metazachlor	ug/l	0.1	<0.002	0.003	0.015	143	0	0
Quinmerac	ug/l	0.1	<0.004	0.006	0.021	144	0	0
Total Pesticides	ug/l	0.5	0	0.056	0.354	151	0	0
Gross alpha activity	Bq/l	0.1	<0.040	<0.040	<0.040	1	0	0
Gross beta activity	Bq/l	1	0.15	0.15	0.15	1	0	0

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Water Supply Zone:	LV18	BOWES PARK	**Zone No.:**	141
			Population:	23360

Time Period: 01/01/2014 to 31/12/2014
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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 bromate. Our investigations showed the infringements for metaldehyde, carbendazim and bromate were transitory at our supplying assets. 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.