

THAMES WATER UTILITIES
WATER QUALITY REPORT - 2014 DATA

Water Supply Zone: LV23 LEE VALLEY			Zone No.: 339			Population: 82995		
Time Period: 01/01/2014 to 31/12/2014			Concentration or Value			No. of Samples		% of samples contravening PCV
Date extracted: 10/04/2015			(all samples)			Total	Contra-vening	
Parameter	Units	PCV	Min.	Mean	Max.	Total	Contra-vening	
Coliform bacteria	no./100ml	0	0	0	0	204	0	0
<i>E. coli</i>	no./100ml	0	0	0	0	204	0	0
<i>Enterococci</i>	no./100ml	0	0	0	0	8	0	0
<i>Clostridium perfringens</i>	no./100ml	0	0	0	0	897	0	0
Colony count 22°C	cfu/ml	-	0	0.974	12	76	0	0
Colony count 37°C	cfu/ml	-	0	1.605	14	76	0	0
Residual Disinfectant	mg/l	-	0.09	0.433	0.71	204	0	0
Colour (Pt/Co scale)	mg/lPt/Co	20	<0.800	1.028	2.5	76	0	0
Hydrogen Ion	pH	6.50-9.50	7	7.497	7.9	77	0	0
Turbidity	FTU	4	<0.060	0.082	0.54	77	0	0
Conductivity at 20°C	uS/cm	2500	568	619.416	739	77	0	0
Ammonium as NH4	mg/l	0.5	0.03	0.115	0.43	76	0	0
Chloride as Cl	mg/l	250	44.13	49.054	54.37	8	0	0
Sodium as Na	mg/l	200	27.1	31.625	34.2	8	0	0
Sulphate as SO4	mg/l	250	51.3	60.513	75.7	8	0	0
Nitrate as NO3	mg/l	50	<0.500	21.083	32.1	76	0	0
Nitrite as NO2	mg/l	0.5	<0.010	0.065	0.22	76	0	0
Nitrate/Nitrite calculation	mg/l	1	<0.020	0.443	0.64	76	0	0
Total Organic Carbon as C	mg/l	-	0.8	2.043	3.1	86	0	0
Total Hardness as CaCO3	mg/l	N/A	258	261	264	2	0	0
Odour (quantatative)	dilution no.	0	0	0	0	38	0	0
Taste (quantatative)	dilution no.	0	0	0	0	38	0	0
Iron as Fe	ug/l	200	1.4	4.983	77.4	76	0	0
Manganese as Mn	ug/l	50	<0.200	0.97	14.5	76	0	0
Aluminium as Al	ug/l	200	<1.400	7.039	19.2	76	0	0
Antimony as Sb	ug/l	5	<0.800	<0.800	<0.800	8	0	0
Arsenic as As	ug/l	10	0.8	1.013	1.2	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	1.213	3.2	8	0	0
Copper as Cu	mg/l	2	<0.004	0.041	0.132	8	0	0
Lead as Pb	ug/l	10	<0.200	0.263	0.4	8	0	0
Mercury as Hg	ug/l	1	<0.040	<0.087	<0.120	85	0	0
Nickel as Ni	ug/l	20	<1.300	1.788	2.7	8	0	0
Fluoride as F	mg/l	1.5	0.145	0.163	0.179	8	0	0
Selenium as Se	ug/l	10	<0.800	0.988	1.2	8	0	0
Boron as B	mg/l	1	0.063	0.07	0.079	8	0	0
Bromate as BrO3	ug/l	10	<0.700	1.165	3.4	92	0	0
Cyanide as CN	ug/l	50	<0.700	0.706	1.1	86	0	0
PAHs (Sum of 4 substances)	ug/l	0.1	0	0.001	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	10.3	17.088	22.7	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	87	0	0
Bentazone	ug/l	0.1	<0.005	0.005	0.007	85	0	0
Bromoxynil	ug/l	0.1	<0.002	<0.005	<0.005	85	0	0
Carbetamide	ug/l	0.1	<0.003	0.004	0.008	87	0	0
Chlortoluron	ug/l	0.1	<0.003	<0.003	<0.003	87	0	0
Clopyralid	ug/l	0.1	<0.009	0.01	0.013	85	0	0
2,4-D	ug/l	0.1	<0.003	<0.004	<0.004	85	0	0
Dicamba	ug/l	0.1	<0.007	<0.007	<0.007	85	0	0
Dichlorprop	ug/l	0.1	<0.002	<0.004	<0.004	85	0	0
Diuron	ug/l	0.1	<0.003	0.003	0.01	87	0	0
Fluroxypyr	ug/l	0.1	<0.003	<0.006	<0.006	85	0	0
Isoproturon	ug/l	0.1	<0.004	<0.004	<0.004	87	0	0
Ioxynil	ug/l	0.1	<0.002	<0.005	<0.005	85	0	0
Linuron	ug/l	0.1	<0.004	<0.004	<0.004	87	0	0
Mecoprop	ug/l	0.1	<0.003	<0.007	<0.008	85	0	0
MCPA	ug/l	0.1	<0.002	<0.006	<0.006	85	0	0
MCPB	ug/l	0.1	<0.004	<0.005	<0.008	85	0	0
Pentachlorophenol	ug/l	0.1	<0.002	<0.004	<0.004	85	0	0
Propazine	ug/l	0.1	<0.002	<0.002	<0.002	85	0	0
Prometryn	ug/l	0.1	<0.002	<0.002	<0.002	85	0	0
Propyzamide	ug/l	0.1	<0.004	0.007	0.025	87	0	0
Simazine	ug/l	0.1	<0.005	0.005	0.007	87	0	0
2,4,5-T	ug/l	0.1	<0.003	<0.005	<0.005	85	0	0
Terbutryn	ug/l	0.1	<0.003	<0.003	<0.003	85	0	0
2,4-DB	ug/l	0.1	<0.004	<0.005	<0.005	85	0	0
Fenoprop	ug/l	0.1	<0.003	<0.004	<0.004	85	0	0
Monuron	ug/l	0.1	<0.003	<0.003	<0.003	87	0	0
Picloram	ug/l	0.1	<0.005	0.008	0.01	85	0	0
Triclopyr	ug/l	0.1	<0.003	<0.005	<0.005	85	0	0
Tebuthiuron	ug/l	0.1	<0.002	<0.002	<0.002	85	0	0
Ametryne	ug/l	0.1	<0.002	<0.002	<0.002	85	0	0
Carbendazim	ug/l	0.1	<0.002	0.005	0.259	87	1	1.1
Metaldehyde	ug/l	0.1	0.018	0.048	0.138	86	6	7
Metazachlor	ug/l	0.1	<0.002	0.003	0.015	79	0	0
Quinmerac	ug/l	0.1	<0.004	0.007	0.021	80	0	0
Total Pesticides	ug/l	0.5	0	0.065	0.354	90	0	0
Gross alpha activity	Bq/l	0.1	<0.040	0.042	0.05	13	0	0
Gross beta activity	Bq/l	1	0.08	0.155	0.18	13	0	0

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			Population:	82995
Time Period: 01/01/2014 to 31/12/2014				
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.