THAMES WATER UTILITIES
WATER QUALITY REPORT - 2014 DATA

Water Supply Zone: NLW54 CHELSEA **Zone No.:** 360

Population: 63349

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	144	0	0
E. coli	no./100ml	0	0	0	0	144	0	0
Enterococci	no./100ml	0	0	0	0	8	0	0
Clostridium perfringens	no./100ml	0	0	0	0	1409	0	0
Colony count 22°C	cfu/ml	-	0	14.173	>300.000	52	0	0
Colony count 37°C	cfu/ml	-	0	9.865	>300.000	52	0	0
Residual Disinfectant	mg/l	-	0.07	0.431	0.79	144	0	0
Colour (Pt/Co scale)	mg/lPt/Co	20	<0.800	1.425	5	52	0	0
Hydrogen Ion	pH	6.50-9.50	7.5	7.765	8.2	52	0	0
Turbidity	FTU	4	<0.060	0.079	0.17	53	0	0
Conductivity at 20°C	uS/cm	2500	525	568.827	608	52	0	0
Ammonium as NH4	mg/l	0.5	0.03	0.107	0.22	52	0	0
Chloride as Cl	mg/l	250	35.5	40.373	45.8	8	0	0
Sodium as Na	mg/l	200	23.3	27.588	32.4	8	0	0
Sulphate as SO4	mg/l	250	42.8	44.838	49.1	8	0	0
Nitrate as NO3	mg/l	50	20.7	24.1	28.3	52	0	0
Nitrite as NO2	mg/l	0.5	<0.010	0.065	0.18	53	0	0
Nitrate/Nitrite calculation	mg/l	1	0.44	0.504	0.58	52	0	0
Total Organic Carbon as C	mg/l	-	1.4	2.206	3.8	106	0	0
Total Hardness as CaCO3	mg/l	N/A	243	257	270	2	0	0
Odour (quantatative)	dilution no.	0	0	0	0	28	0	0
Taste (quantatative)	dilution no.	0	0	0	0	28	0	0
Iron as Fe	ug/l	200	<2.000	4.95	28.3	52	0	0
Manganese as Mn	ug/l	50	0.3	0.863	3.1	52	0	0
Aluminium as Al	ug/l	200	<1.400	5.713	8.5	52	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	1.088	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	1.4	8	0	0
Copper as Cu	mg/l	2	<0.004	0.043	0.114	8	0	0
Lead as Pb	ug/l	10	<0.200	7.713	55.8	8	1	12.5
Mercury as Hg	ug/l	1	<0.040	<0.088	<0.120	106	0	0
Nickel as Ni	ug/l	20	<1.300	1.55	3.3	8	0	0
Fluoride as F	mg/l	1.5	0.118	0.15	0.195	8	0	0
Selenium as Se	ug/l	10	<0.800	0.825	1	8	0	0
Boron as B	mg/l	1	0.046	0.052	0.055	8	0	0
Bromate as BrO3	ug/l	10	<0.700	1.079	14.5	107	1	0.9
Cyanide as CN	ug/l	50	<0.700	0.715	1.1	106	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	8	0	0
Trihalomethanes	ug/l	100	12	17.525	24.2	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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			Concentration or Value (all samples)			No. of Samples		
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Benzene	ug/l	1	<0.100	<0.100	<0.100	8	0	0
Atrazine	ug/l	0.1	<0.005	<0.005	<0.005	107	0	0
Bentazone	ug/l	0.1	<0.005	0.005	0.007	107	0	0
Bromoxynil	ug/l	0.1	<0.002	<0.005	<0.005	107	0	0
Carbetamide	ug/l	0.1	<0.003	0.003	0.008	107	0	0
Chlortoluron	ug/l	0.1	<0.003	<0.003	<0.003	107	0	0
Clopyralid	ug/l	0.1	<0.009	<0.010	<0.010	107	0	0
2,4-D	ug/l	0.1	<0.003	<0.004	<0.004	107	0	0
Dicamba	ug/l	0.1	<0.007	<0.007	<0.007	107	0	0
Dichlorprop	ug/l	0.1	<0.002	<0.004	<0.006	107	0	0
Diuron	ug/l	0.1	<0.003	<0.003	<0.003	107	0	0
Fluroxypyr	ug/l	0.1	<0.003	<0.006	<0.006	107	0	0
Isoproturon	ug/l	0.1	<0.004	<0.004	<0.004	107	0	0
Ioxynil	ug/l	0.1	<0.002	<0.005	<0.005	107	0	0
Linuron	ug/l	0.1	<0.004	<0.004	<0.004	107	0	0
Mecoprop	ug/l	0.1	<0.003	<0.007	<0.008	107	0	0
MCPA	ug/l	0.1	<0.002	<0.006	<0.006	107	0	0
MCPB	ug/l	0.1	<0.004	<0.005	<0.008	107	0	0
Pentachlorophenol	ug/l	0.1	<0.002	<0.004	<0.004	107	0	0
Propazine	ug/l	0.1	<0.002	<0.002	<0.002	106	0	0
Prometryn	ug/l	0.1	<0.002	<0.002	<0.002	106	0	0
Propyzamide	ug/l	0.1	<0.004	0.007	0.033	107	0	0
Simazine	ug/l	0.1	<0.005	<0.005	<0.005	107	0	0
2,4,5-T	ug/l	0.1	<0.003	<0.005	<0.005	107	0	0
Terbutryn	ug/l	0.1	<0.003	<0.003	<0.003	106	0	0
2,4-DB	ug/l	0.1	<0.004	<0.005	<0.005	107	0	0
Fenoprop	ug/l	0.1	<0.003	<0.004	<0.004	107	0	0
Monuron	ug/l	0.1	<0.003	<0.003	<0.003	107	0	0
Picloram	ug/l	0.1	<0.005	0.008	0.01	107	0	0
Triclopyr	ug/l	0.1	<0.003	<0.005	<0.005	107	0	0
Tebuthiuron	ug/l	0.1	<0.002	<0.002	<0.002	106	0	0
Ametryne	ug/l	0.1	<0.002	<0.002	<0.002	106	0	0
Carbendazim	ug/l	0.1	<0.002	0.002	0.008	107	0	0
Metaldehyde	ug/l	0.1	0.018	0.039	0.083	106	0	0
Metazachlor	ug/l	0.1	<0.002	0.003	0.008	106	0	0
Quinmerac	ug/l	0.1	<0.004	0.006	0.017	107	0	0
Total Pesticides	ug/l	0.5	0	0.048	0.134	114	0	0

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Commentary on Water Quality:

Very good water quality, however one infringement to report for bromate and one infringement to report for lead. Our investigations showed the infringement for bromate was transitory at a supplying asset and the infringement for lead was transitory. Neither 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