

THAMES WATER UTILITIES
WATER QUALITY REPORT - 2014 DATA

| Water Supply Zone: SLW21 PUTNEY HEATH | | | Zone No.: 113 | | | | | |
|--|--------------|-----------|---|---------|--------|-----------------------|---------------|-------------------------------|
| | | | Population: 49572 | | | | | |
| Time Period: 01/01/2014 to 31/12/2014 | | | Concentration or Value (all samples) | | | No. of Samples | | |
| Date extracted: 10/04/2015 | | | | | | | | |
| Parameter | Units | PCV | Min. | Mean | Max. | Total | Contra-vening | % of samples contravening PCV |
| Coliform bacteria | no./100ml | 0 | 0 | 0 | 0 | 120 | 0 | 0 |
| <i>E. coli</i> | no./100ml | 0 | 0 | 0 | 0 | 120 | 0 | 0 |
| <i>Enterococci</i> | no./100ml | 0 | 0 | 0 | 0 | 8 | 0 | 0 |
| <i>Clostridium perfringens</i> | no./100ml | 0 | 0 | 0 | 0 | 1393 | 0 | 0 |
| Colony count 22°C | cfu/ml | - | 0 | 3 | 58 | 37 | 0 | 0 |
| Colony count 37°C | cfu/ml | - | 0 | 1.595 | 28 | 37 | 0 | 0 |
| Residual Disinfectant | mg/l | - | 0.21 | 0.487 | 0.71 | 121 | 0 | 0 |
| Colour (Pt/Co scale) | mg/lPt/Co | 20 | <0.800 | 1.522 | 3.7 | 36 | 0 | 0 |
| Hydrogen Ion | pH | 6.50-9.50 | 7.6 | 7.718 | 8.1 | 38 | 0 | 0 |
| Turbidity | FTU | 4 | <0.060 | 0.076 | 0.14 | 38 | 0 | 0 |
| Conductivity at 20°C | uS/cm | 2500 | 516 | 559.189 | 608 | 37 | 0 | 0 |
| Ammonium as NH ₄ | mg/l | 0.5 | 0.05 | 0.115 | 0.18 | 36 | 0 | 0 |
| Chloride as Cl | mg/l | 250 | 33.16 | 39.056 | 45.35 | 8 | 0 | 0 |
| Sodium as Na | mg/l | 200 | 22.3 | 26.525 | 31.1 | 8 | 0 | 0 |
| Sulphate as SO ₄ | mg/l | 250 | 41.2 | 43.838 | 48.5 | 8 | 0 | 0 |
| Nitrate as NO ₃ | mg/l | 50 | 21.5 | 24.011 | 28.1 | 36 | 0 | 0 |
| Nitrite as NO ₂ | mg/l | 0.5 | <0.010 | 0.048 | 0.11 | 36 | 0 | 0 |
| Nitrate/Nitrite calculation | mg/l | 1 | 0.45 | 0.496 | 0.58 | 36 | 0 | 0 |
| Total Organic Carbon as C | mg/l | - | 1.4 | 2.206 | 3.8 | 106 | 0 | 0 |
| Total Hardness as CaCO ₃ | mg/l | N/A | 232 | 253 | 273 | 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 | 3.594 | 8.8 | 36 | 0 | 0 |
| Manganese as Mn | ug/l | 50 | <0.200 | <0.767 | <0.800 | 36 | 0 | 0 |
| Aluminium as Al | ug/l | 200 | <1.400 | 5.628 | 9.8 | 36 | 0 | 0 |
| Antimony as Sb | ug/l | 5 | <0.700 | <0.788 | <0.800 | 8 | 0 | 0 |
| Arsenic as As | ug/l | 10 | 0.9 | 1 | 1.1 | 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 | <0.004 | 0.018 | 0.082 | 8 | 0 | 0 |
| Lead as Pb | ug/l | 10 | <0.200 | 0.838 | 3.5 | 8 | 0 | 0 |
| Mercury as Hg | ug/l | 1 | <0.040 | <0.088 | <0.120 | 106 | 0 | 0 |
| Nickel as Ni | ug/l | 20 | <1.300 | 1.438 | 2.1 | 8 | 0 | 0 |
| Fluoride as F | mg/l | 1.5 | 0.12 | 0.152 | 0.199 | 8 | 0 | 0 |
| Selenium as Se | ug/l | 10 | <0.800 | <0.800 | <0.800 | 8 | 0 | 0 |
| Boron as B | mg/l | 1 | 0.045 | 0.052 | 0.055 | 8 | 0 | 0 |
| Bromate as BrO ₃ | 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 | 0.001 | 8 | 0 | 0 |
| Benzo (a) pyrene | ug/l | 0.01 | <0.001 | <0.001 | <0.001 | 8 | 0 | 0 |
| Trihalomethanes | ug/l | 100 | 16.5 | 19.925 | 24.8 | 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 | <0.005 | 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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| Time Period: 01/01/2014 to 31/12/2014 | | | |
| Date extracted: 10/04/2015 | | | |

Commentary on Water Quality:

Very good water quality, however one infringement to report for bromate. Our investigations showed the infringement for bromate was transitory at a supplying asset and is 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