

## ZL18 – How Green Supply Zone

### Monitoring your drinking water supply

The area we supply is divided into 20 smaller water supply areas called Water Supply Zones. SES Water have 8 water treatment works and each supply zone is supplied by one or more of these treatment works.

Properties in How Green supply zone are supplied from our Woodmansterne and Kenley treatment works.

To monitor the quality of the water we supply, we take and test a number of drinking water samples from treatment works and from randomly selected customer properties in each water supply zone.

The number of samples collected and the types of tests carried out are specified in the Water Supply (Water Quality) Regulations 2016 (as amended) and our regulator, the Drinking Water Inspectorate, also reviews our performance.

**In 2019, all the Regulatory sample results for this Water Supply Zone complied with the requirements of the Water Supply (Water Quality) Regulations 2016 (as amended).**

### Helpful facts:

#### Hardness

To help you set your domestic appliances, the average hardness results from our 2019 operational monitoring programme are shown in different units below:

Calcium (mg/l)	Calcium Carbonate (mg/l)	Millimols	Degrees		
			German (°dH)	French (°f)	°Clark (or °e)
84	209.2	2.09	11.72	20.98	14.65

(mg/l = milligrammes per litre is the same as parts per million (ppm))

#### Chlorine

Chlorine is used to disinfect the water supply and make sure there are no harmful bacteria in the water. We also add a small amount of ammonia to form monochloramine, which has a less noticeable chlorine taste and odour.

#### Fluoride

We do not add fluoride to our drinking water supplies. There is, however, approximately 0.13 mg/l naturally occurring fluoride present.

#### Nitrate

The average nitrate level in this supply zone is 26.2 mg/l. This nitrate comes from the source waters supplying the treatment works. The PCV or allowable limit for nitrate in drinking water is 50 mg/l.

#### Other tests

In addition to the tests listed in the Regulations, water companies also carry out extra tests for monitoring purposes. The following average results for this supply zone may also be of interest:

Alkalinity	193.3 mg/l HCO <sub>3</sub>
Magnesium	2.4 mg/l Mg
Total Dissolved Solids	280 ppm (calculated based on conductivity measurement)

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The table below summarises the results of tests carried out on water samples taken from randomly selected consumers' taps in this supply zone.

Test	No. of Samples taken	Standard	Unit of Measure	Samples Contravening Standard		Concentration or Value Detected		
				No.	%	Minimum	Average	Maximum
1,2-Dichloroethane	8	3	µg/l	0	0.00	<0.04	<0.04	<0.04
Aluminium	8	200	µg Al/l	0	0.00	<5	<14.065	29.346
Ammonium	36	0.5	mg NH <sub>4</sub> /l	0	0.00	<0.02	<0.05	0.084
Antimony	8	5	µg Sb/l	0	0.00	<0.05	<0.08	<0.1
Arsenic	8	10	µg As/l	0	0.00	<0.08	<0.34	<0.5
Benzene	8	1	µg/l	0	0.00	<0.01	<0.01	<0.01
Benzo 3,4 pyrene	8	0.01	µg/l	0	0.00	<0.001	<0.001	<0.001
Boron	8	1	mg B/l	0	0.00	0.025	<0.041	<0.05
Cadmium	8	5	µg Cd/l	0	0.00	<0.03	<0.05	<0.06
Chromium	8	50	µg Cr/l	0	0.00	<0.3	<0.5	0.8
Colony Count 72h at 22°C	36	N/A	No/1ml	0	0.00	0	4.3	123
Colour	36	20	mg/l Pt/Co	0	0.00	<0.8	<0.8	<0.8
Copper	8	2	mg Cu/l	0	0.00	0.006	0.015	0.03
E. coli	120	0	No/100ml	0	0.00	0	0	0
Enterococci	8	0	No/100ml	0	0.00	0	0	0
Hydrogen Ion (pH)	36	6.5 - 9.5	pH units	0	0.00	7.1	7.4	7.6
Iron	36	200	µg Fe/l	0	0.00	<3	<5.3	27.6
Lead	8	10	µg Pb/l	0	0.00	0.271	1.511	3.7
Manganese	8	50	µg Mn/l	0	0.00	1.8	6.8	12.1
Nickel	8	20	µg Ni/l	0	0.00	0.7	0.9	1.3
Nitrate	36	50	mg NO <sub>3</sub> /l	0	0.00	23.1	26.2	27.1
Nitrite	36	0.5	mg NO <sub>2</sub> /l	0	0.00	<0.003	<0.003	0.008
Nitrite/Nitrate formula	36	1	-	0	0.00	0.5	0.5	0.5
Odour (Quantitative)	36	N/A	Dil. Num.	0	0.00	0	0	0
Residual Disinfectant	120	N/A	mg/l	0	0.00	0.11	0.23	0.34
Selenium	8	10	µg Se/l	0	0.00	0.486	0.574	0.7
Sodium	8	200	mg Na/l	0	0.00	11.1	12.333	13.316
Sum Tetra- & Trichloroethene	8	10	µg/l	0	0.00	0.12	0.22	0.32
Taste (Quantitative)	36	N/A	Dil. Num.	0	0.00	0	0	0
Tetrachloromethane	8	3	µg/l	0	0.00	<0.06	<0.06	<0.06
Total coliforms (indicator)	120	0	No/100ml	0	0.00	0	0	0
Total PAH (4 Substances)	8	0.1	µg/l	0	0.00	0	0	0
Total Trihalomethanes	8	100	µg/l	0	0.00	1.1	1.6	2.4
Turbidity	36	4	NTU	0	0.00	0.04	0.11	0.32

**SSWTW - Woodmansterne TW Supply Point**

The table below summarises the results of tests carried out on water samples taken from Woodmansterne treatment works which supplies properties in the How Green supply zone.

Test	No. of Samples taken	Standard	Unit of Measure	Samples Contravening Standard		Concentration or Value Detected		
				No.	%	Minimum	Average	Maximum
Aldrin	8	0.03	µg/l	0	0.00	<0.007	<0.007	<0.007
Atrazine	8	0.1	µg/l	0	0.00	0.016	0.018	0.02
Azoxystrobin	8	0.1	µg/l	0	0.00	<0.007	<0.007	<0.007
Boscalid	8	0.1	µg/l	0	0.00	<0.005	<0.005	<0.005
Bromate	8	10	µg BrO <sub>3</sub> /l	0	0.00	<0.4	<0.4	<0.4
Carbendazim	8	0.1	µg/l	0	0.00	<0.002	<0.002	<0.002
Carbetamide	8	0.1	µg/l	0	0.00	<0.002	<0.002	<0.002
Chloride	8	250	mg Cl/l	0	0.00	23.4	23.8	24.4
Chlorotoluron	8	0.1	µg/l	0	0.00	<0.002	<0.002	<0.002
Clostridium perfringens	8	0	No/100ml	0	0.00	0	0	0
Conductivity	104	2500	µS/cm	0	0.00	356	417.5	602
Cyanide	8	50	µg CN/l	0	0.00	<2	<2	<2
Dieldrin	8	0.03	µg/l	0	0.00	<0.006	<0.007	<0.007
Diflufenican	8	0.1	µg/l	0	0.00	<0.003	<0.003	<0.003
Dimethenamid	8	0.1	µg/l	0	0.00	<0.003	<0.003	<0.003
Diuron	8	0.1	µg/l	0	0.00	<0.003	<0.003	<0.003
Epoxiconazole	8	0.1	µg/l	0	0.00	<0.004	<0.004	<0.004
Flufenacet	8	0.1	µg/l	0	0.00	<0.003	<0.003	<0.003
Fluoride	8	1.5	mg F/l	0	0.00	0.11	0.13	0.15
Flutriafol	8	0.1	µg/l	0	0.00	<0.002	<0.002	<0.002
Heptachlor	8	0.03	µg/l	0	0.00	<0.006	<0.007	<0.007
Heptachlor Epoxide	8	0.03	µg/l	0	0.00	<0.005	<0.009	<0.012
Isoproturon	8	0.1	µg/l	0	0.00	<0.003	<0.003	<0.003
Mercury	8	1	µg Hg/l	0	0.00	<0.02	<0.02	<0.02
Metazchlor	8	0.1	µg/l	0	0.00	<0.001	<0.001	<0.001
Methabenzthiazuron	8	0.1	µg/l	0	0.00	<0.001	<0.001	<0.001
Pendimethalin	8	0.1	µg/l	0	0.00	<0.007	<0.007	<0.007
Picloram	8	0.1	µg/l	0	0.00	<0.005	<0.007	0.007
Propyzamide	8	0.1	µg/l	0	0.00	<0.001	<0.001	<0.001
Prosulfocarb	8	0.1	µg/l	0	0.00	<0.001	<0.001	<0.001
Simazine	8	0.1	µg/l	0	0.00	0.004	0.005	0.006
Sulphate	8	250	mg SO <sub>4</sub> /l	0	0.00	14.9	15.4	16.1
Tebuconazole	8	0.1	µg/l	0	0.00	<0.002	<0.002	<0.002
Total Organic Carbon	8	N/A	mg C/l	0	0.00	0.23	0.31	0.36
Total Pesticides	8	0.5	µg/l	0	0.00	0.021	0.024	0.026
Tri-Allate	8	0.1	µg/l	0	0.00	<0.005	<0.005	<0.005

**SKTW - Kenley TW Supply Point**

The table below summarises the results of tests carried out on water samples taken from Kenley treatment works which supplies properties in the How Green supply zone.

Test	No. of Samples taken	Standard	Unit of Measure	Samples Contravening Standard		Concentration or Value Detected		
				No.	%	Minimum	Average	Maximum
Aldrin	9	0.03	µg/l	0	0.00	<0.007	<0.007	<0.007
Atrazine	8	0.1	µg/l	0	0.00	0.029	0.031	0.033
Azoxystrobin	8	0.1	µg/l	0	0.00	<0.007	<0.007	<0.007
Boscalid	8	0.1	µg/l	0	0.00	<0.005	<0.005	<0.005
Bromate	8	10	µg BrO <sub>3</sub> /l	0	0.00	<0.4	<0.4	0.7
Carbendazim	8	0.1	µg/l	0	0.00	<0.002	<0.002	<0.002
Carbetamide	8	0.1	µg/l	0	0.00	<0.002	<0.002	<0.002
Chloride	8	250	mg Cl/l	0	0.00	25.9	26.6	27.8
Chlorotoluron	8	0.1	µg/l	0	0.00	<0.002	<0.002	<0.002
Clostridium perfringens	8	0	No/100ml	0	0.00	0	0	0
Conductivity	104	2500	uS/cm	0	0.00	347	409.7	563
Cyanide	8	50	µg CN/l	0	0.00	<2	<2	<2
Dieldrin	9	0.03	µg/l	0	0.00	<0.006	<0.007	<0.007
Diflufenican	8	0.1	µg/l	0	0.00	<0.003	<0.003	<0.003
Dimethenamid	8	0.1	µg/l	0	0.00	<0.003	<0.003	<0.003
Diuron	8	0.1	µg/l	0	0.00	<0.003	<0.003	0.003
Epoxiconazole	8	0.1	µg/l	0	0.00	<0.004	<0.004	<0.004
Flufenacet	8	0.1	µg/l	0	0.00	<0.003	<0.003	<0.003
Fluoride	8	1.5	mg F/l	0	0.00	0.1	0.12	0.16
Flutriafol	8	0.1	µg/l	0	0.00	<0.002	<0.002	<0.002
Heptachlor	9	0.03	µg/l	0	0.00	<0.006	<0.006	<0.007
Heptachlor Epoxide	9	0.03	µg/l	0	0.00	<0.005	<0.008	<0.012
Isoproturon	8	0.1	µg/l	0	0.00	<0.003	<0.003	<0.003
Mercury	8	1	µg Hg/l	0	0.00	<0.02	<0.02	<0.02
Metazchlor	8	0.1	µg/l	0	0.00	<0.001	<0.001	<0.001
Methabenzthiazuron	8	0.1	µg/l	0	0.00	<0.001	<0.001	<0.001
Pendimethalin	8	0.1	µg/l	0	0.00	<0.007	<0.007	<0.007
Picloram	8	0.1	µg/l	0	0.00	<0.005	<0.007	<0.007
Propyzamide	8	0.1	µg/l	0	0.00	<0.001	<0.001	<0.001
Prosulfocarb	8	0.1	µg/l	0	0.00	<0.001	<0.001	<0.001
Simazine	8	0.1	µg/l	0	0.00	0.008	0.008	0.009
Sulphate	8	250	mg SO <sub>4</sub> /l	0	0.00	21.5	22.6	23.6
Tebuconazole	8	0.1	µg/l	0	0.00	<0.002	<0.002	<0.002
Total Organic Carbon	8	N/A	mg C/l	0	0.00	0.26	0.33	0.39
Total Pesticides	8	0.5	µg/l	0	0.00	0.038	0.04	0.042
Tri-Allate	8	0.1	µg/l	0	0.00	<0.005	<0.005	<0.005