

ZL02 - Caterham 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 Caterham supply zone are supplied from our Kenley, Godstone and Elmer 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 2018, all the Regulatory sample results for this Water Supply Zone complied with the requirements of the Water Supply (Water Quality) Regulations 2016 (as amended) with the exception of lead.

The exceedance of the Standard for lead was detected in one of the eight customer properties tested for lead. Further investigation indicated that the source of the lead was the property's supply pipe or some of the property's internal plumbing. The customer at that property has been advised to consider replacing any remaining lead pipework or ensure that they flush the tap prior to drawing water for use. For more information about lead, please check out our fact sheet 'Lead in Drinking Water'.

Helpful facts:

Hardness:

To help you set your domestic appliances, the average hardness results from our 2018 operational monitoring programme are shown in different units below:

Due to water being received from multiple treatment works, the hardness of the water supplying your property may vary and be different than that shown below. For more details on Water Hardness and Scale please check out our fact sheet.

Calcium (mg/l)	Calcium Carbonate (mg/l)	Millimols	Degrees		
			German (°dH)	French (°f)	°Clark (or °e)
74	184	1.84	10.32	18.48	12.90

(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 0.14 mg/l naturally occurring fluoride present.

Nitrate

The average nitrate level in this supply zone is 23.4 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	150 mg/l HCO ₃
Magnesium	3.4 mg/l Mg
Total Dissolved Solids	290 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	27	200	µg Al/l	0	0.00	<4	<11.2	29
Ammonium	27	0.5	mg NH ₄ /l	0	0.00	<0.02	<0.04	0.104
Antimony	8	5	µg Sb/l	0	0.00	<0.02	<0.04	<0.1
Arsenic	8	10	µg As/l	0	0.00	0.09	<0.37	<0.5
Benzene	8	1	µg/l	0	0.00	<0.01	<0.01	<0.01
Benzo(a)pyrene	8	0.01	µg/l	0	0.00	<0.001	<0.001	<0.001
Boron	8	1	mg B/l	0	0.00	0.042	0.06	0.075
Cadmium	8	5	µg Cd/l	0	0.00	<0.01	<0.01	0.03
Chlorine Residual – Total chlorine as Monochloramine	84	-	mg/l	0	0.00	<0.02	<0.13	0.32
Chromium	8	50	µg Cr/l	0	0.00	0.2	0.3	0.6
Coliforms (Total)	84	0	No/100ml	0	0.00	0	0	0
Colony Count 72h at 22°C	36	N/A	No/1ml	0	0.00	0	>184	>2000
Colour	27	20	mg/l Pt/Co	0	0.00	<0.8	<0.8	1.6
Copper	8	2	mg Cu/l	0	0.00	0.004	0.032	0.096
E. coli	84	0	No/100ml	0	0.00	0	0	0
Enterococci	8	0	No/100ml	0	0.00	0	0	0
Iron	27	200	µg Fe/l	0	0.00	<1	<13.9	126
Lead	8	10	µg Pb/l	1	12.50	<0.2	<3.1	18
Manganese	27	50	µg Mn/l	0	0.00	<0.9	<1.2	1.9
Nickel	8	20	µg Ni/l	0	0.00	0.9	1.1	1.4
Nitrate	36	50	mg NO ₃ /l	0	0.00	19.2	23.4	28.2
Nitrite	36	0.5	mg NO ₂ /l	0	0.00	<0.003	<0.034	0.135
Nitrite/Nitrate formula	36	1	-	0	0.00	0.4	0.5	0.6
Odour (Quantitative)	26	N/A	Dil. Num.	0	0.00	0	0	0
pH (Hydrogen Ion)	27	6.5 - 9.5	pH units	0	0.00	7.3	7.5	7.9
Selenium	8	10	µg Se/l	0	0.00	0.64	0.88	1.08
Sodium	8	200	mg Na/l	0	0.00	14.8	20.5	22.9
Sum Tetra- & Trichloroethene	8	10	µg/l	0	0.00	0.01	0.18	0.36
Taste (Quantitative)	26	N/A	Dil. Num.	0	0.00	0	0	0
Tetrachloromethane	8	3	µg/l	0	0.00	<0.06	<0.06	0.07
Total PAH (4 Substances)	8	0.1	µg/l	0	0.00	0	0	0
Total Trihalomethanes	8	100	µg/l	0	0.00	1.7	8.1	17.8
Turbidity	27	4	NTU	0	0.00	0.06	0.1	0.23

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 Caterham 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	0.028	0.032	0.038
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 ₃ /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	24.5	26.6	27.6
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	80	2500	µS/cm	0	0.00	333	399	580
Cyanide	8	50	µg CN/l	0	0.00	<2	<2	<2
Dieldrin	9	0.03	µg/l	0	0.00	<0.006	<0.006	<0.006
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	0.08	0.11	0.14
Flutriafol	8	0.1	µg/l	0	0.00	<0.002	<0.002	<0.002
Heptachlor	8	0.03	µg/l	0	0.00	<0.007	<0.007	<0.007
Heptachlor Epoxide	9	0.03	µg/l	0	0.00	<0.012	<0.012	<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	<0.007	<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	0.007	0.008	0.009
Sulphate	8	250	mg SO ₄ /l	0	0.00	21	22.2	23.8
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	0.32	0.37	0.42
Total Pesticides	8	0.5	µg/l	0	0.00	0.035	0.04	0.047
Tri-Allate	8	0.1	µg/l	0	0.00	<0.005	<0.005	<0.005

SGOD - Godstone TW Supply Point

The table below summarises the results of tests carried out on water samples taken from Godstone treatment works which supplies properties in the Caterham 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	0.009	0.01	0.012
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 ₃ /l	0	0.00	<0.4	<0.4	<0.4
Carbendazim	8	0.1	µg/l	0	0.00	<0.002	<0.002	0.004
Carbetamide	8	0.1	µg/l	0	0.00	<0.002	<0.002	<0.002
Chloride	8	250	mg Cl/l	0	0.00	40.5	42.7	44.2
Chlorotoluron	8	0.1	µg/l	0	0.00	<0.002	<0.002	<0.002
Clostridium perfringens	6	0	No/100ml	0	0.00	0	0	0
Conductivity	35	2500	µS/cm	0	0.00	423	468	561
Cyanide	8	50	µg CN/l	0	0.00	<2	<2	<2
Dieldrin	9	0.03	µg/l	0	0.00	<0.006	<0.006	<0.006
Diflufenican	8	0.1	µg/l	0	0.00	<0.003	<0.004	0.009
Dimethenamid	8	0.1	µg/l	0	0.00	<0.003	<0.003	<0.003
Diuron	8	0.1	µg/l	0	0.00	0.004	0.005	0.006
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	0.15	0.18	0.21
Flutriafol	8	0.1	µg/l	0	0.00	<0.002	<0.002	<0.002
Heptachlor	8	0.03	µg/l	0	0.00	<0.007	<0.007	<0.007
Heptachlor Epoxide	9	0.03	µg/l	0	0.00	<0.012	<0.012	<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
Metaldehyde	8	0.1	µg/l	0	0.00	0.006	0.012	0.014
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	<0.007	<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	<0.004	<0.004
Sulphate	8	250	mg SO ₄ /l	0	0.00	64	67.3	69.2
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	0.89	1.06	1.2
Total Pesticides	8	0.5	µg/l	0	0.00	0.022	0.034	0.069
Tri-Allate	8	0.1	µg/l	0	0.00	<0.005	<0.005	<0.005

SETW - Elmer TW Supply Point

The table below summarises the results of tests carried out on water samples taken from Elmer treatment works which supplies properties in the Caterham 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	0.008	0.009	0.01
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 ₃ /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	32.9	35.2	38.5
Chlorotoluron	8	0.1	µg/l	0	0.00	<0.002	<0.002	<0.002
Clostridium perfringens	46	0	No/100ml	0	0.00	0	0	0
Conductivity	118	2500	µS/cm	0	0.00	420	498	569
Cyanide	8	50	µg CN/l	0	0.00	<2	<2	<2
Dieldrin	9	0.03	µg/l	0	0.00	<0.006	<0.006	<0.006
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	<0.004	0.005
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	0.09	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	<0.007	<0.007	<0.007
Heptachlor Epoxide	9	0.03	µg/l	0	0.00	<0.012	<0.012	<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
Metaldehyde	8	0.1	µg/l	0	0.00	0.005	0.007	0.009
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	<0.007	<0.007	<0.007
Propyzamide	8	0.1	µg/l	0	0.00	<0.001	<0.001	0.002
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	0.007
Sulphate	8	250	mg SO ₄ /l	0	0.00	33	35.9	39.2
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	0.68	0.81	0.99
Total Pesticides	8	0.5	µg/l	0	0.00	0.017	0.023	0.028
Tri-Allate	8	0.1	µg/l	0	0.00	<0.005	<0.005	<0.005