

Monitoring your drinking water supply

The area we supply is divided into 22 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 Tillingdown supply zone are supplied from our Godstone, Kenley, Elmer and Bough Beech 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.

The following pages list the regulatory sample results we have taken from within the zone and from the treatment works supplying the zone.

In 2025, all the Regulatory sample results for this Water Supply Zone complied with the requirements of the Water Supply (Water Quality) Regulations 2016 (as amended), except for a single sample for nickel.

The single sample exceedance of the Standard for nickel was investigated. The investigation identified that the cause of the exceedance was most likely the customers kitchen tap or associated fittings installed at the property. The exceedance was not repeated in check samples taken from the original property or neighbouring properties. Whilst investigating, the customer was advised to flush their pipework through prior to taking water for drinking or food preparation purposes, in order to minimise their exposure to nickel. The local environmental health team and relevant health protection team were informed. We recommend that all taps and water fittings are compliant with Regulation 4 of the Water Fittings Regulations, approved by an appropriate approvals scheme and if required installed by a WaterSafe approved plumber.

Helpful facts:

Hardness

To help you set your domestic appliances, the average hardness results from our 2025 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)
64.8	161.9	1.62	9.07	16.24	11.34

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

Using the 'Water Hardness Scale' ZL12 – Tillingdown Supply Zone is a medium hardness water zone.

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. The chlorine results in the tables below are as monochloramine, which is also known as Residual Disinfectant.

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 14.9 mg/l. This nitrate comes from the source waters supplying the treatment works. The PCV (Prescribed Concentration Value), 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	3.41	mg/l Mg
Total Dissolved Solids	283	ppm (calculated based on conductivity measurement)

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ZL12 - Tillingdown Supply Zone

The table below summarises the results of tests carried out on water samples taken within the **Tillingdown 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	<0.08	<0.08	<0.08
Aluminium	8	200	µg Al/l	0	0	<5	<8.4	18
Ammonium	24	0.5	mg NH ₄ /l	0	0	<0.02	<0.05	0.12
Antimony	8	5	µg Sb/l	0	0	<0.09	<0.17	0.30
Arsenic	8	10	µg As/l	0	0	0.15	0.35	0.46
Benzene	8	1	µg/l	0	0	<0.01	<0.01	<0.01
Benzo(a)pyrene	8	0.01	µg/l	0	0	<0.001	<0.001	<0.001
Boron	8	1	mg B/l	0	0	<0.04	<0.05	0.07
Cadmium	8	5	µg Cd/l	0	0	<0.06	<0.06	<0.06
Chromium	8	50	µg Cr/l	0	0	<0.8	<0.8	<0.8
Coliforms	48	0	No/100ml	0	0	0	0	0
Colony Count 72h at 22°C	24	N/A	No/1ml	0	0	0	1	4
Colour	24	20	mg/l Pt/Co	0	0	<0.3	<1.1	3.0
Copper	8	2	mg Cu/l	0	0	<0.03	<0.05	0.08
E. coli	48	0	No/100ml	0	0	0	0	0
Enterococci	8	0	No/100ml	0	0	0	0	0
Iron	24	200	µg Fe/l	0	0	<6	<19.2	67
Lead	8	10	µg Pb/l	0	0	<0.3	<0.3	0.4
Manganese	8	50	µg Mn/l	0	0	<0.9	<1.0	1.4
Nickel	8	20	µg Ni/l	1	12.5	1.2	4.9	22.2
Nitrate	24	50	mg NO ₃ /l	0	0	2.2	14.9	24.4
Nitrite	24	0.5	mg NO ₂ /l	0	0	<0.01	<0.07	0.22
Nitrite/Nitrate formula	24	1	-	0	0	<0.1	<0.3	0.5
Odour (Quantitative)	24	N/A	Dil. Num.	0	0	0	0	0
pH (Hydrogen ion)	24	6.5 - 9.5	pH units	0	0	7.27	7.60	7.83
Residual Disinfectant (Total Chlorine as monochloramine)	48	-	mg/l	0	0	<0.04	<0.23	0.86
Selenium	8	10	µg Se/l	0	0	<0.27	<0.49	0.86
Sodium	8	200	mg Na/l	0	0	17.0	21.5	26.0
Sum Tetra- & Trichloroethene	8	10	µg/l	0	0	0	0.1	0.6
Taste (Quantitative)	24	N/A	Dil. Num.	0	0	0	0	0
Tetrachloromethane	8	3	µg/l	0	0	<0.11	<0.11	<0.11
Total PAH (4 Substances)	8	0.1	µg/l	0	0	0	0	0
Total Trihalomethanes	8	100	µg/l	0	0	2.2	21.7	51.5
Turbidity	24	4	NTU	0	0	<0.05	<0.13	0.33

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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 Tillingdown supply zone.

Test	No. of Samples taken	Standard	Unit of Measure	Samples Contravening Standard		Concentration or Value Detected		
				No.	%	Minimum	Average	Maximum
Aldrin	7	0.03	µg/l	0	0	<0.003	<0.006	<0.007
Atrazine	7	0.1	µg/l	0	0	<0.004	<0.007	0.008
Azoxystrobin	7	0.1	µg/l	0	0	<0.014	<0.014	<0.014
Boscalid	7	0.1	µg/l	0	0	<0.01	<0.01	<0.01
Bromate	7	10	µg BrO ₃ /l	0	0	<0.8	<0.8	<0.8
Carbendazim	7	0.1	µg/l	0	0	<0.004	<0.004	<0.004
Carbetamide	7	0.1	µg/l	0	0	<0.004	<0.004	<0.004
Chloride	7	250	mg Cl/l	0	0	42.3	45.7	48.6
Chlorotoluron	7	0.1	µg/l	0	0	<0.003	<0.003	<0.003
Clostridium perfringens	6	0	No/100ml	0	0	0	0	0
Conductivity	30	2500	µS/cm	0	0	412	442	505
Cyanide	7	50	µg CN/l	0	0	<4.1	<4.1	<4.1
Dieldrin	7	0.03	µg/l	0	0	<0.002	<0.005	<0.006
Diffenican	7	0.1	µg/l	0	0	<0.005	<0.005	<0.005
Dimethenamid	7	0.1	µg/l	0	0	<0.005	<0.005	<0.005
Diuron	7	0.1	µg/l	0	0	<0.006	<0.006	<0.006
Epoxiconazole	7	0.1	µg/l	0	0	<0.007	<0.007	<0.007
Flufenacet	7	0.1	µg/l	0	0	<0.006	<0.006	<0.006
Fluoride	7	1.5	mg F/l	0	0	0.163	0.177	0.195
Flutriafol	7	0.1	µg/l	0	0	<0.004	<0.004	<0.004
Heptachlor	7	0.03	µg/l	0	0	<0.002	<0.008	<0.009
Heptachlor Epoxide	7	0.03	µg/l	0	0	<0.005	<0.005	<0.005
Isoproturon	7	0.1	µg/l	0	0	<0.005	<0.005	<0.005
Mercury	7	1	µg Hg/l	0	0	<0.04	<0.05	<0.1
Metaldehyde	7	0.1	µg/l	0	0	0.017	0.019	0.023
Metazchlor	7	0.1	µg/l	0	0	<0.002	<0.002	<0.002
Methabenzthiazuron	7	0.1	µg/l	0	0	<0.002	<0.002	<0.002
Pendimethalin	7	0.1	µg/l	0	0	<0.009	<0.009	<0.009
Picloram	7	0.1	µg/l	0	0	<0.004	<0.005	0.008
Propyzamide	7	0.1	µg/l	0	0	<0.001	<0.001	<0.001
Prosulfocarb	7	0.1	µg/l	0	0	<0.001	<0.001	<0.001
Simazine	7	0.1	µg/l	0	0	<0.007	<0.007	<0.007
Sulphate	7	250	mg SO ₄ /l	0	0	59	61.2	65.6
Tebuconazole	7	0.1	µg/l	0	0	<0.004	<0.004	<0.004
Total Organic Carbon	7	N/A	mg C/l	0	0	0.9	1.1	1.3
Total Pesticides	7	0.5	µg/l	0	0	0.023	0.027	0.033
Tri-Allate	7	0.1	µg/l	0	0	<0.01	<0.01	<0.01

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

Test	No. of Samples taken	Standard	Unit of Measure	Samples Contravening Standard		Concentration or Value Detected		
				No.	%	Minimum	Average	Maximum
Aldrin	7	0.03	µg/l	0	0	<0.007	<0.007	<0.007
Atrazine	8	0.1	µg/l	0	0	0.019	0.02	0.021
Azoxystrobin	8	0.1	µg/l	0	0	<0.014	<0.014	<0.014
Boscalid	8	0.1	µg/l	0	0	<0.01	<0.01	<0.01
Bromate	8	10	µg BrO ₃ /l	0	0	<0.8	<0.8	<0.8
Carbendazim	8	0.1	µg/l	0	0	<0.004	<0.004	<0.004
Carbetamide	8	0.1	µg/l	0	0	<0.004	<0.004	<0.004
Chloride	8	250	mg Cl/l	0	0	25	27.2	29.5
Chlorotoluron	8	0.1	µg/l	0	0	<0.003	<0.003	<0.003
Clostridium perfringens	8	0	No/100ml	0	0	0	0	0
Conductivity	103	2500	uS/cm	0	0	341	404	571
Cyanide	7	50	µg CN/l	0	0	<4.1	<4.1	<4.1
Dieldrin	7	0.03	µg/l	0	0	<0.006	<0.006	<0.006
Diffufenican	8	0.1	µg/l	0	0	<0.005	<0.005	<0.005
Dimethenamid	8	0.1	µg/l	0	0	<0.005	<0.005	<0.005
Diuron	8	0.1	µg/l	0	0	<0.006	<0.006	<0.006
Epoxiconazole	8	0.1	µg/l	0	0	<0.007	<0.007	<0.007
Flufenacet	8	0.1	µg/l	0	0	<0.006	<0.006	<0.006
Fluoride	8	1.5	mg F/l	0	0	0.079	0.112	0.129
Flutriafol	8	0.1	µg/l	0	0	<0.004	<0.004	<0.004
Heptachlor	7	0.03	µg/l	0	0	<0.009	<0.009	<0.009
Heptachlor Epoxide	8	0.03	µg/l	0	0	<0.005	<0.005	<0.005
Isoproturon	8	0.1	µg/l	0	0	<0.005	<0.005	<0.005
Mercury	9	1	µg Hg/l	0	0	<0.04	<0.05	<0.1
Metazchlor	8	0.1	µg/l	0	0	<0.002	<0.002	<0.002
Methabenzthiazuron	8	0.1	µg/l	0	0	<0.002	<0.002	<0.002
Pendimethalin	8	0.1	µg/l	0	0	<0.009	<0.009	<0.009
Picloram	8	0.1	µg/l	0	0	<0.004	<0.004	0.005
Propyzamide	8	0.1	µg/l	0	0	<0.001	<0.001	<0.001
Prosulfocarb	8	0.1	µg/l	0	0	<0.001	<0.001	<0.001
Simazine	8	0.1	µg/l	0	0	0.008	0.009	0.009
Sulphate	8	250	mg SO ₄ /l	0	0	21.2	24.2	26.1
Tebuconazole	8	0.1	µg/l	0	0	<0.004	<0.004	<0.004
Total Organic Carbon	8	N/A	mg C/l	0	0	<0.3	<0.5	0.7
Total Pesticides	8	0.5	µg/l	0	0	0.027	0.033	0.057
Tri-Allate	8	0.1	µg/l	0	0	<0.01	<0.01	<0.01

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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 Salfords 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	<0.003	<0.006	<0.007
Atrazine	8	0.1	µg/l	0	0	0.007	0.01	0.012
Azoxystrobin	8	0.1	µg/l	0	0	<0.014	<0.014	<0.014
Boscalid	8	0.1	µg/l	0	0	<0.01	<0.01	<0.01
Bromate	8	10	µg BrO ₃ /l	0	0	<0.8	<0.8	<0.8
Carbendazim	8	0.1	µg/l	0	0	<0.004	<0.004	<0.004
Carbetamide	8	0.1	µg/l	0	0	<0.004	<0.004	<0.004
Chloride	8	250	mg Cl/l	0	0	26.9	35.9	52.2
Chlorotoluron	8	0.1	µg/l	0	0	<0.003	<0.003	<0.003
Clostridium perfringens	8	0	No/100ml	0	0	0	0	0
Conductivity	157	2500	µS/cm	0	0	394	441	575
Cyanide	8	50	µg CN/l	0	0	<4.1	<4.1	<4.1
Dieldrin	8	0.03	µg/l	0	0	<0.002	<0.005	<0.006
Diflufenican	8	0.1	µg/l	0	0	<0.005	<0.005	<0.005
Dimethenamid	8	0.1	µg/l	0	0	<0.005	<0.005	<0.005
Diuron	8	0.1	µg/l	0	0	<0.006	<0.006	<0.006
Epoxiconazole	8	0.1	µg/l	0	0	<0.007	<0.007	<0.007
Flufenacet	8	0.1	µg/l	0	0	<0.006	<0.006	<0.006
Fluoride	8	1.5	mg F/l	0	0	0.095	0.126	0.139
Flutriafol	8	0.1	µg/l	0	0	<0.004	<0.004	<0.004
Heptachlor	8	0.03	µg/l	0	0	<0.002	<0.008	<0.009
Heptachlor Epoxide	8	0.03	µg/l	0	0	<0.005	<0.005	<0.005
Isoproturon	8	0.1	µg/l	0	0	<0.005	<0.005	<0.005
Mercury	8	1	µg Hg/l	0	0	<0.04	<0.05	<0.1
Metaldehyde	8	0.1	µg/l	0	0	<0.01	<0.01	<0.01
Metazachlor	8	0.1	µg/l	0	0	<0.002	<0.002	<0.002
Methabenzthiazuron	8	0.1	µg/l	0	0	<0.002	<0.002	<0.002
Pendimethalin	8	0.1	µg/l	0	0	<0.009	<0.009	<0.009
Picloram	8	0.1	µg/l	0	0	<0.004	<0.005	0.015
Propyzamide	8	0.1	µg/l	0	0	<0.001	<0.001	0.001
Prosulfocarb	8	0.1	µg/l	0	0	<0.001	<0.001	<0.001
Simazine	8	0.1	µg/l	0	0	<0.007	<0.007	0.007
Sulphate	8	250	mg SO ₄ /l	0	0	34.7	40	61.8
Tebuconazole	8	0.1	µg/l	0	0	<0.004	<0.004	<0.004
Total Organic Carbon	8	N/A	mg C/l	0	0	0.6	0.9	1.1
Total Pesticides	8	0.5	µg/l	0	0	0.007	0.014	0.028
Tri-Allate	8	0.1	µg/l	0	0	<0.01	<0.01	<0.01

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SBBH - Bough Beech TW Supply Point

The table below summarises the results of tests carried out on water samples taken from **Bough Beech treatment works**, which supplies properties in the Salfords supply zone.

Test	No. of Samples taken	Standard	Unit of Measure	Samples Contravening Standard		Concentration or Value Detected		
				No.	%	Minimum	Average	Maximum
2,4-D	8	0.1	µg/l	0	0	<0.003	<0.003	0.003
Aldrin	8	0.03	µg/l	0	0	<0.003	<0.006	<0.007
Atrazine	8	0.1	µg/l	0	0	<0.004	<0.004	<0.004
Azoxystrobin	8	0.1	µg/l	0	0	<0.014	<0.014	<0.014
Boscalid	8	0.1	µg/l	0	0	<0.01	<0.01	<0.01
Bromate	8	10	µg BrO ₃ /l	0	0	<0.8	<0.8	<0.8
Carbendazim	8	0.1	µg/l	0	0	<0.004	<0.004	<0.004
Carbetamide	8	0.1	µg/l	0	0	<0.004	<0.004	<0.004
Chloride	8	250	mg Cl/l	0	0	30.7	33.2	36.3
Chlorotoluron	8	0.1	µg/l	0	0	<0.003	<0.003	<0.003
Clopyralid	8	0.1	µg/l	0	0	0.027	0.035	0.046
Clostridium perfringens	8	0	No/100ml	0	0	0	0	0
Conductivity	105	2500	µS/cm	0	0	312	338	386
Cyanide	8	50	µg CN/l	0	0	<4.1	<4.1	<4.1
Dieldrin	8	0.03	µg/l	0	0	<0.002	<0.005	<0.006
Diflufenican	8	0.1	µg/l	0	0	<0.005	<0.005	<0.005
Dimethenamid	8	0.1	µg/l	0	0	<0.005	<0.005	<0.005
Diuron	8	0.1	µg/l	0	0	<0.006	<0.006	<0.006
Epoxiconazole	8	0.1	µg/l	0	0	<0.007	<0.007	<0.007
Flufenacet	8	0.1	µg/l	0	0	<0.006	<0.008	0.01
Fluoride	8	1.5	mg F/l	0	0	<0.05	<0.102	0.144
Fluroxypyr	8	0.1	µg/l	0	0	<0.003	<0.003	0.003
Flutriafol	8	0.1	µg/l	0	0	<0.004	<0.004	<0.004
Heptachlor	8	0.03	µg/l	0	0	<0.002	<0.008	<0.009
Heptachlor Epoxide	8	0.03	µg/l	0	0	<0.005	<0.005	<0.005
Isoproturon	8	0.1	µg/l	0	0	<0.005	<0.005	<0.005
MCPA	8	0.1	µg/l	0	0	<0.004	<0.004	<0.004
Mecoprop	8	0.1	µg/l	0	0	<0.002	<0.002	<0.002
Mercury	9	1	µg Hg/l	0	0	<0.04	<0.05	<0.1
Metaldehyde	8	0.1	µg/l	0	0	<0.01	<0.01	<0.01
Metazchlor	8	0.1	µg/l	0	0	<0.002	<0.002	0.002
Methabenzthiazuron	8	0.1	µg/l	0	0	<0.002	<0.002	<0.002
Pendimethalin	8	0.1	µg/l	0	0	<0.009	<0.009	<0.009
Picloram	8	0.1	µg/l	0	0	<0.004	<0.008	0.019
Propyzamide	8	0.1	µg/l	0	0	0.006	0.014	0.029
Prosulfocarb	8	0.1	µg/l	0	0	<0.001	<0.001	<0.001
Quinmerac	8	0.1	µg/l	0	0	0.014	0.019	0.024
Simazine	8	0.1	µg/l	0	0	<0.007	<0.007	<0.007

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SBBH - Bough Beech TW Supply Point

Test	No. of Samples taken	Standard	Unit of Measure	Samples Contravening Standard		Concentration or Value Detected		
				No.	%	Minimum	Average	Maximum
Sulphate	8	250	mg SO ₄ /l	0	0	52.2	65.1	83
Tebuconazole	8	0.1	µg/l	0	0	<0.004	<0.004	<0.004
Total Organic Carbon	8	N/A	mg C/l	0	0	3.1	4	4.9
Total Pesticides	8	0.5	µg/l	0	0	0.051	0.085	0.104
Tri-Allate	8	0.1	µg/l	0	0	<0.01	<0.01	<0.01
Triclopyr	8	0.1	µg/l	0	0	<0.003	<0.003	0.003