

## ZL04 - Dry Hill 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 Dry Hill supply zone are supplied from our 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.

**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).**

### 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:

Calcium (mg/l)	Calcium Carbonate (mg/l)	Millimols	Degrees		
			German (°dH)	French (°f)	°Clark (or °e)
55	137	1.37	7.67	13.74	9.59

(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 0.10 mg/l naturally occurring fluoride present.

#### Nitrate

The average nitrate level in this supply zone is 13.3 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	63.4 mg/l HCO <sub>3</sub>
Magnesium	5.1 mg/l Mg
Total Dissolved Solids	266 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	9	200	µg Al/l	0	0.00	7	16.1	25
Ammonium	12	0.5	mg NH <sub>4</sub> /l	0	0.00	<0.02	<0.109	0.204
Antimony	8	5	µg Sb/l	0	0.00	0.23	0.42	1.1
Arsenic	8	10	µg As/l	0	0.00	0.28	<0.38	<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	0.041	<0.046	<0.05
Cadmium	8	5	µg Cd/l	0	0.00	<0.01	<0.02	<0.06
Chlorine Residual – Total chlorine as Monochloramine	24	-	mg/l	0	0.00	0.15	0.55	0.79
Chromium	8	50	µg Cr/l	0	0.00	0.1	0.3	0.6
Coliforms (Total)	24	0	No/100ml	0	0.00	0	0	0
Colony Count 72h at 22°C	12	N/A	No/1ml	0	0.00	0	0	0
Colour	9	20	mg/l Pt/Co	0	0.00	<0.8	<1.3	2.8
Copper	8	2	mg Cu/l	0	0.00	0.002	0.02	0.058
E. coli	24	0	No/100ml	0	0.00	0	0	0
Enterococci	8	0	No/100ml	0	0.00	0	0	0
Iron	9	200	µg Fe/l	0	0.00	4	7.4	17
Lead	8	10	µg Pb/l	0	0.00	<0.2	<0.2	<0.2
Manganese	9	50	µg Mn/l	0	0.00	<1.2	<1.2	<1.2
Nickel	8	20	µg Ni/l	0	0.00	1.2	1.8	2.2
Nitrate	12	50	mg NO <sub>3</sub> /l	0	0.00	5	13.3	20
Nitrite	12	0.5	mg NO <sub>2</sub> /l	0	0.00	0.038	0.095	0.184
Nitrite/Nitrate formula	12	1	-	0	0.00	0.1	0.3	0.4
Odour (Quantitative)	9	N/A	Dil. Num.	0	0.00	0	0	0
pH (Hydrogen Ion)	9	6.5 - 9.5	pH units	0	0.00	7.6	7.7	7.8
Selenium	8	10	µg Se/l	0	0.00	<0.35	<0.36	<0.4
Sodium	8	200	mg Na/l	0	0.00	23.4	25.2	26
Sum Tetra- & Trichloroethene	8	10	µg/l	0	0.00	0	0	0
Taste (Quantitative)	9	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 PAH (4 Substances)	8	0.1	µg/l	0	0.00	0	0	0
Total Trihalomethanes	8	100	µg/l	0	0.00	30.9	52.3	67.5
Turbidity	9	4	NTU	0	0.00	0.09	0.15	0.3

**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 Dry Hill 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	0.00	<0.003	<0.003	<0.003
Aldrin	9	0.03	µg/l	0	0.00	<0.007	<0.007	<0.007
Atrazine	8	0.1	µg/l	0	0.00	<0.002	<0.002	<0.002
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
Bromoxynil	8	0.1	µg/l	0	0.00	<0.003	<0.003	<0.003
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	44.7	47.4	51.1
Chlorotoluron	8	0.1	µg/l	0	0.00	<0.002	<0.002	<0.002
Clopyralid	8	0.1	µg/l	0	0.00	0.009	0.013	0.017
Clostridium perfringens	32	0	No/100ml	0	0.00	0	0	0
Conductivity	78	2500	uS/cm	0	0.00	363	398	428
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	<0.007	0.016
Fluoride	8	1.5	mg F/l	0	0.00	0.07	0.1	0.14
Fluroxypyr	8	0.1	µg/l	0	0.00	<0.004	<0.004	<0.004
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
MCPA	8	0.1	µg/l	0	0.00	<0.005	<0.005	<0.005
Mecoprop	8	0.1	µg/l	0	0.00	<0.002	<0.002	<0.002
Mercury	8	1	µg Hg/l	0	0.00	<0.02	<0.02	0.02
Metaldehyde	8	0.1	µg/l	0	0.00	0.022	0.029	0.034
Metazchlor	8	0.1	µg/l	0	0.00	<0.001	<0.001	0.002
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
Propyzamide	8	0.1	µg/l	0	0.00	0.003	0.011	0.023

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Prosulfocarb	8	0.1	µg/l	0	0.00	<0.001	<0.001	<0.001
Quinmerac	8	0.1	µg/l	0	0.00	<0.005	<0.011	0.018
Simazine	8	0.1	µg/l	0	0.00	<0.004	<0.004	<0.004
Sulphate	8	250	mg SO <sub>4</sub> /l	0	0.00	56.7	67.2	82.5
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	3.06	3.83	4.63
Total Pesticides	8	0.5	µg/l	0	0.00	0.034	0.071	0.105
Tri-Allate	8	0.1	µg/l	0	0.00	<0.005	<0.005	<0.005
Triclopyr	8	0.1	µg/l	0	0.00	<0.005	<0.005	<0.005