



## TECHNICAL DATASHEET

# PRIVATE WATER SUPPLIES PRESCRIBED CONCENTRATION OR VALUES

PARAMETERS	EXPRESSION OF RESULTS	ALS Limit of Detection	STANDARDS FOR PRIVATE WATER SUPPLIES SCOTLAND 2006*	STANDARDS FOR PRIVATE WATER SUPPLIES ENGLAND 2016** & WALES 2010***
			 CONCENTRATION OR VALUE (Maximum unless otherwise stated)	 CONCENTRATION OR VALUE (Maximum unless otherwise stated)
Colour	mg/l Pt/Co scale	0.99 mg/L PT/CO	20	20
Turbidity	NTU	0.08 NTU	4 (try to achieve 1)	4
Odour	Dilution number	Dil. No (0)	3 at 25°C	Acceptable to consumers and no abnormal change
Taste	Dilution number	Dil. No (0)	3 at 25°C	Acceptable to consumers and no abnormal change
Hydrogen Ion	pH value	Not Applicable	9.5 (6.5 minimum)	9.5 (6.5 minimum) (In the case of still water put into bottles or containers the minimum is 4.5)
Conductivity	µS/cm	2.2	2500 at 20°C	2500 at 20°C
Chloride	Cl mg/l	0.6	250	250
Sulphate expressed as Sulphur S04	S04 mg/l	0.32	250	250
Sodium	Na mg/l	1.1	200	200
Total Indicative Dose (for radioactivity)	mSv/year	†	0.10	0.10
Gross Alpha	mSv/year	†	0.1 Bq/l	0.1 Bq/l
Gross Beta	mSv/year	†	1.0 Bq/l	1.0 Bq/l
Radon	mSv/year	†	100 Bq/l	100 Bq/l
Tritium (for radioactivity)	Bq/l	5	100	100
Nitrate	NO <sub>3</sub> mg/l	0.37	50	50
Nitrite	NO <sub>2</sub> mg/l	0.009	0.50	0.5 (0.1 ex works)
Ammonium (ammonia and ammonium ions)	NH <sub>4</sub> mg/l	0.015	0.50	0.50
Total organic carbon	C mg/l	0.11	No abnormal change	No abnormal change
Acrylamide (i)	µg/l	0.008	0.10	0.10
Epichlorhydrin (i)	µg/l	0.1	0.10	0.10
Vinyl chloride (i)	µg/l	0.037	0.50	0.50
Benzene	µg/l	0.1	1.0	1.0
1,2 dichloroethane	µg/l	0.1	3.0	3.0
Aluminium	Al µg/l	7.22	200	200
Iron	Fe µg/l	1.73	200	200
Manganese	Mn µg/l	0.22	50	50
Copper	Cu mg/l	0.7	2.0	2.0



Zinc	Zn µg/l	2.7	5000	
Fluoride	F mg/l	0.03	1.5	1.5
Silver	µg Ag/l	1.0	10 (80 if used in treatment process)	
Bromate	BrO <sub>3</sub> µg/l	0.4	10	10
Arsenic	As µg/l	0.18	10	10
Cadmium	Cd µg/l	0.007	5.0	5.0
Cyanide	CN µg/l	0.5	50	50
Chromium	Cr µg/l	0.31	50	50
Mercury	Hg µg/l	0.0497	1.0	1.0
Nickel	Ni µg/l	0.13	20	20
Lead	Pb µg/l	0.10	10	10
Antimony	Sb µg/l	0.25	5.0	5.0
Selenium	Se µg/l	0.41	10	10
Boron	B µg/l	3	1.0	1.0
<b>Pesticides and related products:</b> a) individual substances b) total substances (i)	µg/l	The highest individual LOD is 0.02	a) 0.1 b) 0.5	a) 0.1 b) 0.5
Aldrin	µg/l	0.004	0.030	0.030
Dieldrin	µg/l	0.004	0.030	0.030
Heptachlor	µg/l	0.002	0.030	0.030
CIS - Heptachlor epoxide	µg/l	0.003	0.030	0.030
Total (4) PAH (ii)	µg/l	0	0.10	0.10
Benzo 3,4 pyrene expressed as Benzo (A) pyrene	µg/l	0.00032	0.010	0.010
Tetrachloromethane	µg/l	0.14	3	3
Tetrachloroethene and trichloroethene	µg/l	0	10	10
Trihalomethanes (HM): Total †	µg/l	0	100	100
Enterococci	number/100 ml	0 CFU/100ml	0	0
Escherichia Coli	number/100 ml	0 CFU/100ml	0	0
Coliform bacteria	number/100 ml	0 CFU/100ml	0	0
Clostridium perfringens	number/100 ml	0 CFU/100ml	0	0
Colony Counts	number/1 ml at 22°C and 37°C	0 CFU/100ml	No abnormal change	No abnormal change

## What is a private water supply?

A private water supply is any water supply which is not provided by a water company. It is not a mains supply.

A private water supply typically originates from one of the following: Well; Borehole; Stream; Spring or River.

A private water supply could serve just one property or it could be a large supply with a large network of pipes supplying water to many properties. The water may come from a variety of sources, such as a spring, well, borehole, pond or stream.

## Standards for water quality

To make sure that water is used in the home and for producing food is of the high quality needed to protect public health, the Government has set legal quality standards for all water used for drinking, washing and cooking or used in businesses which produce food or drink. These are the same standards set for mains water supplies.

- i. The parametric value refers to the residual monomer concentration in the water as calculates according to the specifications of the maximum release from the corresponding polymer in contact with the water. This is controlled by product specification.
  - ii. Benzo(b)Fluoranthene, Benzo(k)Fluoranthene, Benzo(g,h,i) Perylene and Indeno(1,2,3-cd)pyrene. PAH = Polycyclic Aromatic Hydrocarbons.
- † gross alpha - 0.0157 Bq/l  
+ gross beta - 0.0042 Bq/l

## REFERENCES

\*Standard for Private Water Supplies Scotland 2006- <http://www.scotland.gov.uk/Topics/Environment/Water/17670/pws>

\*\* Standard for Private Water Supplies England 2016 - <http://www.legislation.gov.uk/uksi/2016/618/contents/made>

\*\*\* Standard for Private Water Supplies Wales 2010 - <http://www.legislation.gov.uk/wsi/2010/66/contents/made>

