

Scottish Water

Water Register

Date range of sample: 01/01/2021 to 31/12/2021

Regulation Zone = Lerwick Shetland

Page 1 of 3

Parameter Name	No. of Results	PCV	Units of Measure	Results Failing PCV (%)	Min	Mean	Max
Colour	24	20	mg/l Pt/Co	0	2	3.13	6
Turbidity	24	4	NTU	0	< 0.30	0.32	0.80
Odour	24	0	Dilution number	0	0	0	0
Taste	24	0	Dilution number	0	0	0	0
Hydrogen ion (pH)	24	9.5	pH units	0	7.40	7.82	8.20
Nitrate	24	50	mgNO ₃ /l	0	< 0.50	0.75	1.11
Nitrite	24	0.5	mgNO ₂ /l	0	< 0.02	0.02	0.03
Nitrite/Nitrate formula	24		Unitless	0	0	0.02	0.03
Ammonium (total)	24	0.5	mg/l as NH ₄	0	0.27	0.32	0.35
Total organic carbon	8		mgC/l	0	1.90	2.28	2.50
Aluminium	24	200	µgAl/l	0	< 16	32.58	59
Iron	24	200	µgFe/l	0	< 5	34.54	119
Manganese	24	50	µgMn/l	0	< 2	6.63	16
PAH - Sum Of 4 Substances	8	0.1	µg/l	0	< 0.01	< 0.01	0.02
Coliform Bacteria (Total coliforms)	4	0	CFU/100ml	0	0	0	0
E. coli (Faecal coliforms)	4	0	CFU/100ml	0	0	0	0
Colony Counts After 3 Days At 22øc	1		CFU/ml	0	3	3	3
Colony Counts After 48 Hours At 37øc	1		CFU/ml	0	1	1	1
Residual Disinfectant - Free	36		mg/l	0	< 0.04	0.06	0.21
Residual Disinfectant - Total	36		mg/l	0	0.69	1.03	1.34

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Page 2 of 3

Parameter Name	No. of Results	PCV	Units of Measure	Results Failing PCV (%)	Min	Mean	Max
Conductivity	24	2500	µS/cm	0	248	265.50	285
Benzo 3_4 Pyrene	8	0.01	µg/l	0	< 0.00	0.00	0.00
Tetrachloro methane	8	3	µg/l	0	< 0.08	< 0.08	< 0.08
Tetrachloro ethene/Trichloroethene - Sum Of 2 Substances	8	10	µg/l	0	< 0.52	< 0.52	< 0.52
Total Trihalomethanes	8	100	µg/l	0	19.70	26.13	35.50
1_2 Dichloroethane	8	3	µg/l	0	< 0.09	< 0.09	< 0.09
Benzene	8	1	µg/l	0	< 0.08	< 0.08	< 0.08
Sulphate	8	250	mgSO4/l	0	37.70	45.54	55.20
Sodium	8	200	mgNa/l	0	27.40	29.54	31.20
Copper	8	2	mgCu/l	0	< 0.00	0.00	0.01
Fluoride	8	1.5	mgF/l	0	< 0.12	0.12	0.15
Arsenic	8	10	µgAs/l	0	< 0.40	< 0.40	< 0.40
Cadmium	8	5	µgCd/l	0	< 0.02	0.02	0.02
Cyanide	8	50	µgCN/l	0	< 1	2.55	3.30
Chromium	8	50	µgCr/l	0	< 0.40	< 0.40	< 0.40
Mercury	8	1	µgHg/l	0	< 0.02	< 0.02	< 0.02
Nickel	8	20	µgNi/l	0	< 0.80	< 0.80	< 0.80
Lead	8	10	µgPb/l	0	< 0.20	0.20	0.20
Antimony	8	5	µgSb/l	0	< 0.03	0.04	0.07
Selenium	8	10	µgSe/l	0	< 0.60	< 0.60	< 0.60

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Clostridium perfringens (Sulphite Reducing Clostridia)	23	0	CFU/100ml	0	0	0	0
Chloride	8	250	mgCl/l	0	44	48.25	51
Boron	8	1	mgB/l	0	< 0.02	< 0.05	0.07
Bromate	8	10	µgBrO3/l	0	< 0.90	0.93	1.10
Gross Alpha Activity	8		Bq/l	0	< 0.04	< 0.04	< 0.04
Gross Beta Activity	8		Bq/l	0	0.03	0.03	0.04
Enterococci (Faecal streptococci)	4	0	CFU/100ml	0	0	0	0