

2018 Reporting Year

Barr Beacon 1 Water Quality Zone (BB1)								
Schedule 1 Parameters								
	Units	PCV	Number of Samples	Number of Samples contravening PCV	% No. of samples contravening PCV	Min	Mean	Max
Colour	mg/l Pt/Co	20	54	0	0	<1.70	1.83	3
Turbidity	FTU	1	54	0	0	0.1	0.11	0.16
Odour	Dil Number	0	54	0	0	0	0	0
Taste	Dil Number	0	55	0	0	0	0	0
Sodium	mg/l	200	8	0	0	19.8	30.15	55.4
Nitrate (as NO3)	mg/l	50	8	0	0	13.1	18.39	21.2
Nitrite (as NO2)	mg/l	0.1	8	0	0	<0.01	<0.01	<0.01
Nitrate/Nitrite Ratio	mg/l	1	8	0	0	0.26	0.37	0.43
Aluminium	ug/l	-	54	0	0	5	10.79	33.6
Iron	ug/l	200	54	0	0	<4.00	12.04	55.2
Manganese	ug/l	50	54	0	0	0.9	2.73	20.8
Copper	mg/l	2	8	0	0	0.004	0.01	0.058
Fluoride	ug/l	1500	8	0	0	0.77	0.96	1.07
Arsenic	ug/l	10	8	0	0	0.5	0.7625	1.2
Cadmium	ug/l	5	8	0	0	<0.10	<0.10	0.06
Chromium	ug/l	50	8	0	0	<0.70	<0.70	0.35
Nickel	ug/l	20	8	0	0	<0.80	0.81	1
Lead	ug/l	10	8	0	0	0.5	0.5	0.5
Antimony	ug/l	5	8	0	0	0.2	0.45	0.6
Selenium	ug/l	10	8	0	0	0.4	0.73	1.57
PAH	ug/l	0.1	10	0	0	0	0	0
Escherichia coli	No./100ml	0	140	0	0	0	0	0
Intestinal Enterococci	cfu/100ml	0	8	0	0	0	0	0
Boron	mg/l	1	8	0	0	0.05	0.0719	0.093
Benzo(a)pyrene	ug/l	0.01	9	0	0	<0.002	<0.002	<0.002
Trihalomethanes (total)	ug/l	100	10	1	10	38.90	60.51	103
Bromate	ug/l	10	8	0	0	<0.50	1.15	3.1

Indicator Parameters								
	Units	PCV	Number of samples	Number of Samples contravening PCV	% No. of samples contravening PCV	Minimum	Mean	Maximum
pH		-	54	0	0	7	7.34	8.2
Sulphate (as SO4)	mg/l	250	8	0	0	44.3	61.16	90.9
Ammonium (as NH4)	mg/l	0.5	54	0	0	0.04	0.04	0.04
Total coliforms	No./100ml	0	140	0	0	0	0	0
Free chlorine	mg/l	-	139	0	0	0.03	0.24	0.7
Total chlorine	mg/l	-	139	0	0	0.07	0.41	0.84
Conductivity	uS/cm	2500	54	0	0	375	495.22	565
Chloride	mg/l	250	8	0	0	54	59.75	73

* With the exception of the Trihalomethane parameter all of the samples collected from this zone in 2018 complied with the Water Supply (Water Quality) (Amendment) Regulations 2018. The Trihalomethane failure was part of an event which was fully investigated. Following corrective actions taken by the Company all resamples were satisfactory. Supplies to this zone are fluoridated up to a level of 1mg/l