

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	<1.00	2.40	3
Turbidity	FTU	4	54	0	0	<0.1	0.11	0.3
Odour	Dil Number	0	54	1	1.85	0	0.02	1
Taste	Dil Number	0	54	0	0	0	0	0
Sodium	mg/l	200	10	0	0	13.3	19.98	27.7
Nitrate (as NO3)	mg/l	50	10	0	0	14.5	20.36	28.9
Nitrite (as NO2)	mg/l	0.1	10	0	0	<0.006	<0.006	<0.006
Nitrate/Nitrite Ratio	mg/l	1	10	0	0	0.29	0.41	0.58
Aluminium	ug/l	200	54	0	0	<5.0	12.7	25.8
Iron	ug/l	200	54	0	0	<4.0	13.0	78.7
Manganese	ug/l	50	54	0	0	<0.9	1.50	6
Copper	mg/l	2	10	0	0	0.005	0.046	0.151
Fluoride	mg/l	1.5	10	0	0	0.846	0.9493	1.05
Arsenic	ug/l	10	10	0	0	<0.5	0.73	0.9
Cadmium	ug/l	5	10	0	0	<0.060	<0.060	<0.060
Chromium	ug/l	50	10	0	0	<0.3	0.37	1
Nickel	ug/l	20	10	0	0	0.7	1.06	1.8
Lead	ug/l	10	10	0	0	<0.5	<0.5	<0.5
Antimony	ug/l	5	10	0	0	0.3	0.54	0.7
Selenium	ug/l	10	10	0	0	0.4	0.54	0.7
PAH	ug/l	0.1	10	0	0	0	0	0
Escherichia coli	No./100ml	0	143	0	0	0	0	0
Intestinal Enterococci	cfu/100ml	0	10	0	0	0	0	0
Boron	mg/l	1	10	0	0	0.067	0.078	0.085
Benzo(a)pyrene	ug/l	0.01	10	0	0	<0.002	<0.002	<0.002
Trihalomethanes (total)	ug/l	100	10	0	0	38.9	50.63	59.5
Bromate	ug/l	10	10	0	0	<0.4	0.61	1.4
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	7.21	7.6
Sulphate (as SO4)	mg/l	250	10	0	0	46.8	74.14	102
Ammonium (as NH4)	mg/l	0.5	54	0	0	<0.04	0.040	0.073
Total coliforms	No./100ml	0	143	0	0	0	0	0
3 day count,22 deg C	cfu/ml	100	55	0	0	0	1.38	35
Free chlorine	mg/l	-	143	0	0	0.03	0.21	0.67
Total chlorine	mg/l	-	143	0	0	0.08	0.41	0.89
Conductivity	uS/cm	2500	54	0	0	378	500.6	596
Chloride	mg/l	250	10	0	0	46	54.8	61

* With the exception of the Odour parameter all of the samples collected from this zone in 2019 complied with the Water Supply (Water Quality) (Amendment) Regulations 2018. The unsatisfactory sample was resampled and was found to comply with the regulations. Supplies to this zone are fluoridated up to a level of 1mg/l