

Barr Beacon 1 Water Quality Zone (BB1)

Schedule 1 Parameters

	Units	PCV	Number of samples	Number of samples greater than PCV	% greater than PCV	Number of samples greater than authorised departure	% greater than authorised departure	Minimum	Mean	Maximum
Colour	mg/l Pt/Co	20	53	0	0	-	-	<0.4000	1.9226	4
Turbidity	FTU	4	54	0	0	-	-	<0.0300	0.0685	0.38
Odour (quantitative)	Dil Number	0	54	0	0	-	-	0	0	0
Taste (quantitative)	Dil Number	0	54	0	0	-	-	0	0	0
Sodium	mg/l	150	10	0	0	-	-	18	20.6	34
Nitrate (as NO3)	mg/l	50	10	0	0	-	-	10.7	28.95	43.7
Nitrite (as NO2)	mg/l	0.1	10	0	0	-	-	<0.0030	0.0039	0.009
Nitrate/Nitrite Ratio	mg/l	1	10	0	0	-	-	0.37	0.811	1
Aluminium	ug/l	200	53	0	0	-	-	<8.0000	11.0377	41
Iron	ug/l	200	53	0	0	-	-	<10.0000	<10.0000	96
Manganese	ug/l	50	53	0	0	-	-	<2.1000	<2.1000	8.1
Copper (New Reg Limit)	mg/l	2	10	0	0	-	-	<0.0030	0.0208	0.049
Fluoride	ug/l	1500	10	0	0	-	-	0.848	0.9685	1.07
Arsenic (New Regs Limit)	ug/l	10	10	0	0	-	-	0.56	0.971	1.4
Cadmium	ug/l	5	10	0	0	-	-	<0.06	<0.06	<0.06
Chromium	ug/l	50	10	0	0	-	-	<0.7	0.72	0.9
Nickel (New Reg Limit)	ug/l	20	10	0	0	-	-	<0.9	2.35	14
Lead (New Reg Limit)	ug/l	25	10	0	0	-	-	<0.5	0.59	1.4
Antimony (New Reg Limit)	ug/l	5	10	0	0	-	-	<0.1700	0.3445	0.54
Selenium	ug/l	10	10	0	0	-	-	<0.3000	0.301	0.53
Total PAHs (4 Det Total)	ug/l	0.1	10	0	0	-	-	0	0.0001	0.0010
Escherichia coli	No./100ml	0	143	0	0	-	-	0	0	0
Intestinal Enterococci	cfu/100ml	0	10	0	0	-	-	0	0	0
Boron (New Reg Limit)	mg/l	1	10	0	0	-	-	0.0290	0.0547	0.0750
Benzo(a)pyrene	ug/l	0.01	10	0	0	-	-	<0.001	<0.001	<0.001
Trihalomethanes (total)	ug/l	100	10	0	0	-	-	4.14	27.987	38.87
Bromate	ug/l	10	10	0	0	-	-	<0.006	<0.006	<0.006

Indicator Parameters

	Units	PCV	Number of samples	Number of samples greater than specification	% greater than specification	Minimum	Mean	Maximum
pH		9.5	53	0	0	6.8	7.2434	7.5
Sulphate (as SO4)	mg/l	250	10	0	0	40.4	62.28	80.7
Ammonium (as NH4)	mg/l	0.5	54	0	0	<0.0090	0.0113	0.052
Total organic carbon	mg/l	-	10	0	0	2.4	3.078	4.48
Total coliforms	No./100ml	0	143	2	1.4	0	0.0699	9
Clostridium perfringens	No./100ml	0	54	0	0	0	0	0
3 day count, 22 deg C	cfu/ml	-	53	0	0	0	4.283	35
Total chlorine	mg/l	-	143	0	0	0.04	0.2202	0.55
2 day count, 37 deg C	cfu/ml	-	53	0	0	0	3.7925	27
Conductivity	uS/cm	1500	54	0	0	391	512.0185	625
Chloride	mg/l	250	10	0	0	40.8	46.58	54.7

With the exception of the coliform parameter, all of the samples collected from this zone in 2010 complied with the Water Supply (Water Quality) Regulations 2000 (amended) 2007. All unsatisfactory samples were resampled and were found to comply with the regulations. Supplies to this zone are fluoridated up to a level of 1000µg/l.