

Shavers End Water Quality Zone (SV)

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	55	0	0	-	-	<0.4000	0.6036	2.3
Turbidity	FTU	4	55	0	0	-	-	<0.0300	0.0557	0.29
Odour (quantitative)	Dil Number	0	55	0	0	-	-	0	0	0
Taste (quantitative)	Dil Number	0	55	0	0	-	-	0	0	0
Sodium	mg/l	150	10	0	0	-	-	22	25.6	30
Nitrate (as NO ₃)	mg/l	50	10	0	0	-	-	24.2	34.06	47.5
Nitrite (as NO ₂)	mg/l	0.1	10	0	0	-	-	<0.0030	0.0038	0.009
Nitrate/Nitrite Ratio	mg/l	1	10	0	0	-	-	0.53	0.891	1
Aluminium	ug/l	200	55	0	0	-	-	<8.0000	<8.0000	25
Iron	ug/l	200	55	0	0	-	-	<10.0000	<10.0000	39
Manganese	ug/l	50	55	0	0	-	-	<2.1000	<2.1000	5.3
Copper (New Reg Limit)	mg/l	2	10	0	0	-	-	0.004	0.026	0.067
Fluoride	ug/l	1500	10	0	0	-	-	0.97	1.0118	1.08
Arsenic (New Regs Limit)	ug/l	10	10	0	0	-	-	<0.37	0.485	0.63
Cadmium	ug/l	5	10	0	0	-	-	<0.06	0.102	0.2
Chromium	ug/l	50	10	0	0	-	-	<0.7	0.7	0.7
Nickel (New Reg Limit)	ug/l	20	10	1	10	-	-	<0.9	33.3	304
Lead (New Reg Limit)	ug/l	25	10	0	0	-	-	<0.5	0.77	3.1
Antimony (New Reg Limit)	ug/l	5	10	0	0	-	-	<0.1700	<0.1700	0.085
Selenium	ug/l	10	10	0	0	-	-	<0.3000	<0.3000	0.42
Total PAHs (4 Det Total)	ug/l	0.1	10	0	0	-	-	0	0	0
Escherichia coli	No./100ml	0	180	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	-	-	0.0320	0.0533	0.0630
Benzo(a)pyrene	ug/l	0.01	10	0	0	-	-	<0.001	<0.001	<0.001
Trihalomethanes (total)	ug/l	100	10	0	0	-	-	0	15.102	54.57
Bromate	ug/l	10	10	0	0	-	-	<0.6000	<0.6000	<0.6000
Indicator Parameters										
	Units	PCV	Number of samples	Number of samples greater than specification	% greater than specification	Minimum	Mean	Maximum		
pH		9.5	55	0	0	6.5	6.8073	7.3		
Sulphate (as SO ₄)	mg/l	250	10	0	0	32.6	44.41	51.2		
Ammonium (as NH ₄)	mg/l	0.5	55	0	0	<0.0090	0.0091	0.018		
Total organic carbon	mg/l	-	10	0	0	<0.1200	0.82	2.23		
Total coliforms	No./100ml	0	180	0	0	0	0	0		
Clostridium perfringens	No./100ml	0	55	0	0	0	0	0		
3 day count, 22 deg C	cfu/ml	-	55	0	0	0	1.9818	48		
Total chlorine	mg/l	-	180	0	0	0.04	0.1517	0.41		
2 day count, 37 deg C	cfu/ml	-	55	0	0	0	1.2	33		
Conductivity	uS/cm	1500	55	0	0	340	434.9455	534		
Chloride	mg/l	250	10	0	0	40.7	45.54	56.2		

With the exception of the nickel 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.