

Vartry Works
Roundwood

Water Quality - Guide Values

Volume Produced (m ³ /day).....		77 000
Colour (Hazen).....		10
Turbidity (NTU).....		< 1
pH.....		7.5 - 8.0
Conductivity (µS/cm).....		125 - 135
Chloride (mg/l).....		10 - 15
Sulphate (mg/l).....		10 - 15
Total Dissolved Solids (mg/l).....		80
Total Residual Chlorine (mg/l).....		0.05 - 0.1
Nitrate (mg N/l).....		1.00
Nitrite (mg N/l).....		< 0.01
Ammonia (mg N/l).....		< 0.02
Phosphate (mg P/l).....		< 0.02
Aluminium (mg/l).....		≤ 0.05
Iron (mg/l).....		< 0.05
Fluoride (mg/l).....		0.6 – 0.8
Total Coliforms (MPN/100ml).....		<1
E. coli (MPN/100ml).....		<1
Heterotrophic Plate Count 22°C (CFU/ml).....		< 20
Heterotrophic Plate Count 37°C (CFU/ml).....		< 20
Enterococci (CFU/100ml).....	<1	
Odour.....		None
Taste.....		None
Magnesium (mg/L).....	2	
Calcium (mg/L).....	13	
Total Alkalinity (mg CaCO ₃ /l).....		15 - 25
Calcium Hardness (mg CaCO ₃ /l).....		40 - 45
Total Hardness (mg CaCO ₃ /l).....		50
Saturation pH.....		9.0 to 9.6
Langelier.....		-2.2 to -1.6
Ryznar.....		10.6 to 11.8

Liffey Works
Ballymore Eustace
Water Quality - Guide Values

Volume Produced (m3/day).....	280 000
Colour (Hazen).....	< 10
Turbidity (NTU).....	< 1
pH.....	7.5 - 8.5
Conductivity (µS/cm).....	140 - 150
Chloride (mg/l).....	< 25
Sulphate (mg/l).....	< 35
Total Dissolved Solids (mg/l).....	95
Nitrate (mg N/l).....	< 1.0
Nitrite (mg N/l).....	< 0.01
Ammonia (mg N/l).....	< 0.02
Phosphate (mg P/l).....	< 0.02
Aluminium (mg/l).....	< 0.1
Iron (mg/l).....	< 0.05
Fluoride (mg/l).....	0.6 – 0.8
Total Coliforms (MPN/100ml).....	<1
E.coli (MPN/100ml).....	<1
Heterotrophic Plate Count 22°C (CFU/ml).....	< 20
Heterotrophic Plate Count 37°C (CFU/ml).....	< 20
Enterococci (CFU/100ml)	<1
Odour.....	None
Taste.....	None
Magnesium (mg/L).....	1.5
Calcium (mg/L).....	18 - 20
Total Alkalinity (mg CaCO3/l).....	28
Calcium Hardness (mg CaCO3/l).....	45 - 50
Total Hardness (mg CaCO3/l).....	55
Saturation pH.....	8.7 to 9.2
Langelier.....	-2.0 to -1.5
Ryznar.....	10.2 to 11.2