

Beaufort West			SANS 241:2015	Compliance Calculations						
Parameter	Unit	Risk	Standard Limits (SANS 241-2011 and SANS 241- 2006 Class I)	Total Number of Samples	Number of Samples Complying	% Compliance Achieved	Performance (Population < 100 000)	Risk Character P = prescribed monitoring R = identified risk N = negligible risk	Compliance Status (Yes / No)	Average
Conductivity	mS/m	Aesthetic	≤ 170	0	0			P/N		
Turbidity	NTU	Operational	≤ 1	0	0			P/R		
		Aesthetic	≤ 5	0	0			P/R		
pH (at 25°C)		Operational	≥5.0 - ≤ 9.7	0	0			P		
Heterotrophic Plate Count	cfu/ml	Operational	≤ 1000	0	0			P		
E.Coli (<1 taken as 0)	cfu/100ml	Acute Health Micro	≤ 0	146	141	96.6%	Excellent	P	Yes	0.51
Total Coliform Count (<1 taken as 0)	cfu/100ml	Operational	≤ 10	154	143	92.9%	Good	N	Yes	67.09
Free Chlorine	mg/L	Chronic Health	≤ 5	0	0			N		
Colour	mg/L	Aesthetic	≤ 15	0	0					
Alkalinity (as CaCO ₃)	mg/L		-	0						
Total Hardness (as CaCO ₃)	mg/L		-	0						
Calcium (as Ca)	mg/L	Aesthetic / Operation	≤ 150	0	0					
Magnesium (as Mg)	mg/L	Aesthetic / Health	≤ 70	0	0					
Sodium (as Na)	mg/L	Aesthetic	≤ 200	0	0			N		
Potassium (as K)	mg/L	Operational / Health	≤ 50	0	0					
Zinc (as Zn)	mg/L	Aesthetic	≤ 5	0	0			N		
Chloride (as Cl)	mg/L	Aesthetic	≤ 300	0	0			R		
Fluoride (as F)	mg/L	Chronic Health	≤ 1.5	0	0			R		
Sulphate (as SO ₄ ²⁻)	mg/L	Acute Health Chemical	≤ 500	0	0			N		
		Aesthetic	≤ 250	0	0			N		
Total Dissolved Solids	mg/L	Aesthetic	≤ 1 200	0	0			N		
Ammonia Nitrogen (as N)	mg/L	Aesthetic	≤ 1.5	0	0			N		
Nitrate & Nitrite Nitrogen (as N)	mg/L	Acute Health Chemical	≤ 12	0	0			R		
Iron (as Fe)	ug/L	Chronic Health	≤ 2000	0	0			N		
		Aesthetic	≤ 300	0	0			R		
Manganese (as Mn)	ug/L	Chronic Health	≤ 400	0	0			N		
		Aesthetic	< 100	0	0			R		
Aluminium (as Al)	ug/L	Operational	≤300	0	0					
Cytopathogenic Viruses	cfu/10 l	Acute Health Micro	≤ 0	0	0					
Cryptosporidium Species	cfu/10 l	Acute Health Micro	≤ 0	0	0					
Giardia Species	cfu/10 l	Acute Health Micro	≤ 0	0	0					
Chloroform	ug/L	Chronic Health	≤ 300	0	0			N		
Bromodichloromethane	ug/L	Chronic Health	≤ 60	0	0			N		
Dibromochloromethane	ug/L	Chronic Health	≤ 100	0	0			N		
Bromoform	ug/L	Chronic Health	≤ 100	0	0			N		
Somatic Coliphages	cfu/10ml	Operational	≤ 0	0	0					
Combined Trihalomethanes	mg/L	Chronic Health	≤ 1	0	0			N		
Phenols	ug/L	Aesthetic	≤10	0	0			N		
Calcium Hardness (as CaCO ₃)	mg/L		-	0						
Magnesium Hardness (as CaCO ₃)	mg/L		-	0						
Nitrate as N	mg/L	Acute Health Chemical	≤ 11	0	0			R		
Nitrite as N	mg/L	Acute Health Chemical	≤ 0.9	0	0			N		
Antimony (as Sb)	ug/L	Chronic Health	≤ 20	0	0			N		
Arsenic (as As)	ug/L	Chronic Health	≤ 10	0	0			N		
Cadmium (as Cd)	ug/L	Chronic Health	≤ 3	0	0			N		
Chromium (as Cr)	ug/L	Chronic Health	≤ 50	0	0			N		
Cobalt (as Co)	ug/L	Chronic Health	≤ 500	0	0					
Copper (as Cu)	ug/L	Chronic Health	≤ 2000	0	0			N		
Lead (as Pb)	ug/L	Chronic Health	≤ 10	0	0			N		
Mercury (as Hg)	ug/L	Chronic Health	≤ 6	0	0			N		
Nickel (as Ni)	ug/L	Chronic Health	≤ 70	0	0			N		
Selenium (as Se)	ug/L	Chronic Health	≤ 40	0	0			N		
Vanadium (as V)	ug/L	Chronic Health	≤ 200	0	0					
Cyanide	ug/L	Acute Health Chemical	≤ 200	0	0			N		
Total Organic Carbon	mg/L	Chronic Health	≤ 10	0	0					
Uranium (as U)	ug/L	Chronic Health	≤ 30	0	0			N		
Barium (as Ba)	ug/L	Chronic Health	≤ 700	0	0			N		
Boron (as B)	mg/L	Chronic Health	≤ 2.4	0	0			N		
CaCO ₃ Precipitation Potential			-	0						
Microcystin (as LR)	ug/L	Chronic Health	≤ 1	0	0					
Monochloramine	mg/L	Chronic Health	≤ 3	0	0			N		

Acute Health Chemical	0	0		
Acute Health Microbiological	146	141	96.6%	Good
Chronic Health	0	0		
Aesthetic	0	0		
Operational Efficiency	154	143	92.9%	Good

Murraysburg			SANS 241:2015	Compliance Calculations						
Parameter	Unit	Risk	Standard Limits (SANS 241-2011 and SANS 241-2006 Class I)	Total Number of Samples	Number of Samples Complying	% Compliance Achieved	Performance (Population < 100 000)	Risk Character P = prescribed monitoring R = identified risk N = negligible risk	Compliance Status (Yes / No)	Average
Conductivity	mS/m	Aesthetic	≤ 170	9	9	100.0%	Excellent	P/N	Yes	7.13
Turbidity	NTU	Operational	≤ 1	9	8	88.9%	Unacceptable	P/R	No	0.68
		Aesthetic	≤ 5	9	9	100.0%	Excellent	P/R	Yes	
pH (at 25°C)		Operational	≥5.0 - ≤ 9.7	9	9	100.0%	Excellent	P	Yes	6.48
Heterotrophic Plate Count	cfu/ml	Operational	≤ 1000	0	0			P		
E.Coli (<1 taken as 0)	cfu/100ml	Acute Health Micro	≤ 0	9	9	100.0%	Excellent	P	Yes	0.00
Total Coliform Count (<1 taken as 0)	cfu/100ml	Operational	≤ 10	9	9	100.0%	Excellent	N	Yes	0.00
Free Chlorine	mg/L	Chronic Health	≤ 5	0	0			N	Yes	
Colour	mg/L	Aesthetic	≤ 15	9	9	100.0%	Excellent		Yes	4.89
Alkalinity (as CaCO ₃)	mg/L		-	1						7.60
Total Hardness (as CaCO ₃)	mg/L		-	0						
Calcium (as Ca)	mg/L	Aesthetic / Operation	≤ 150	0	0					
Magnesium (as Mg)	mg/L	Aesthetic / Health	≤ 70	0	0					
Sodium (as Na)	mg/L	Aesthetic	≤ 200	9	9	100.0%	Excellent	N	Yes	8.78
Potassium (as K)	mg/L	Operational / Health	≤ 50	0	0					
Zinc (as Zn)	mg/L	Aesthetic	≤ 5	9	9	100.0%	Excellent	N	Yes	0.01
Chloride (as Cl)	mg/L	Aesthetic	≤ 300	9	9	100.0%	Excellent	R	Yes	8.08
Fluoride (as F)	mg/L	Chronic Health	≤ 1.5	9	9	100.0%	Excellent	R	Yes	0.13
Sulphate (as SO ₄ ²⁻)	mg/L	Acute Health Chemical	≤ 500	9	9	100.0%	Excellent	N	Yes	3.41
		Aesthetic	≤ 250	9	9	100.0%	Excellent	N	Yes	
Total Dissolved Solids	mg/L	Aesthetic	≤ 1 200	9	9	100.0%	Excellent	N	Yes	46.33
Ammonia Nitrogen (as N)	mg/L	Aesthetic	≤ 1.5	9	9	100.0%	Excellent	N	Yes	0.25
Nitrate & Nitrite Nitrogen (as N)	mg/L	Acute Health Chemical	≤ 12	9	9	100.0%	Excellent	R	Yes	1.21
Iron (as Fe)	ug/L	Chronic Health	≤ 2000	9	9	100.0%	Excellent	N	Yes	24.44
		Aesthetic	≤ 300	9	9	100.0%	Excellent	R	Yes	
Manganese (as Mn)	ug/L	Chronic Health	≤ 400	9	9	100.0%	Excellent	N	Yes	24.44
		Aesthetic	< 100	9	9	100.0%	Excellent	R	Yes	
Aluminium (as Al)	ug/L	Operational	≤300	9	9	100.0%	Excellent		Yes	31.11
Cytopathogenic Viruses	cfu/10 l	Acute Health Micro	≤ 0	0	0					
Cryptosporidium Species	cfu/10 l	Acute Health Micro	≤ 0	9	9	100.0%	Excellent		Yes	0.00
Giardia Species	cfu/10 l	Acute Health Micro	≤ 0	9	9	100.0%	Excellent		Yes	0.00
Chloroform	ug/L	Chronic Health	≤ 300	0	0			N		
Bromodichloromethane	ug/L	Chronic Health	≤ 60	0	0			N		
Dibromochloromethane	ug/L	Chronic Health	≤ 100	0	0			N		
Bromoform	ug/L	Chronic Health	≤ 100	0	0			N		
Somatic Coliphages	cfu/10ml	Operational	≤ 0	0	0					
Combined Trihalomethanes	mg/L	Chronic Health	≤ 1	0	0			N		
Phenols	ug/L	Aesthetic	≤10	0	0			N		
Calcium Hardness (as CaCO ₃)	mg/L		-	0						
Magnesium Hardness (as CaCO ₃)	mg/L		-	0						
Nitrate as N	mg/L	Acute Health Chemical	≤ 11	1	1	100.0%	Excellent	R	Yes	1.50
Nitrite as N	mg/L	Acute Health Chemical	≤ 0.9	1	1	100.0%	Excellent	N	Yes	0.20
Antimony (as Sb)	ug/L	Chronic Health	≤ 20	9	9	100.0%	Excellent	N	Yes	2.68
Arsenic (as As)	ug/L	Chronic Health	≤ 10	9	9	100.0%	Excellent	N	Yes	1.56
Cadmium (as Cd)	ug/L	Chronic Health	≤ 3	9	9	100.0%	Excellent	N	Yes	0.44
Chromium (as Cr)	ug/L	Chronic Health	≤ 50	9	9	100.0%	Excellent	N	Yes	14.44
Cobalt (as Co)	ug/L	Chronic Health	≤ 500	9	9	100.0%	Excellent		Yes	11.11
Copper (as Cu)	ug/L	Chronic Health	≤ 2000	9	9	100.0%	Excellent	N	Yes	13.33
Lead (as Pb)	ug/L	Chronic Health	≤ 10	9	9	100.0%	Excellent	N	Yes	1.50
Mercury (as Hg)	ug/L	Chronic Health	≤ 6	9	9	100.0%	Excellent	N	Yes	0.56
Nickel (as Ni)	ug/L	Chronic Health	≤ 70	9	9	100.0%	Excellent	N	Yes	24.44
Selenium (as Se)	ug/L	Chronic Health	≤ 40	9	9	100.0%	Excellent	N	Yes	2.06
Vanadium (as V)	ug/L	Chronic Health	≤ 200	9	9	100.0%	Excellent		Yes	15.67
Cyanide	ug/L	Acute Health Chemical	≤ 200	9	9	100.0%	Excellent	N	Yes	46.67
Total Organic Carbon	mg/L	Chronic Health	≤ 10	10	9	90.0%	Excellent		Yes	1.69
Uranium (as U)	ug/L	Chronic Health	≤ 30	9	9	100.0%	Excellent	N	Yes	2.11
Barium (as Ba)	mg/L	Chronic Health	≤ 0.7	9	9	100.0%	Excellent	N	Yes	0.03
Boron (as B)	mg/L	Chronic Health	≤ 2.4	9	9	100.0%	Excellent	N	Yes	0.16
CaCO ₃ Precipitation Potential			-	0						
Microcystin (as LR)	ug/L	Chronic Health	≤ 1	0	0					
Monochloramine	mg/L	Chronic Health	≤ 3	0	0			N		

Acute Health Chemical	29	29	100.0%	Excellent
Acute Health Microbiological	27	27	100.0%	Excellent
Chronic Health	163	162	99.4%	Excellent
Aesthetic	99	99	100.0%	Excellent
Operational Efficiency	36	35	97.2%	Excellent

Merweville			SANS 241:2015	Compliance Calculations						
Parameter	Unit	Risk	Standard Limits (SANS 241-2011 and SANS 241- 2006 Class I)	Total Number of Samples	Number of Samples Complying	% Compliance Achieved	Performance (Population < 100 000)	Risk Character P = prescribed monitoring R = identified risk N = negligible risk	Compliance Status (Yes / No)	Average
Conductivity	mS/m	Aesthetic	≤ 170	0	0			P/N		
Turbidity	NTU	Operational	≤ 1	0	0			P/R		
		Aesthetic	≤ 5	0	0			P/R		
pH (at 25°C)		Operational	≥5.0 - ≤ 9.7	0	0			P		
Heterotrophic Plate Count	cfu/ml	Operational	≤ 1000	0	0			P		
E.Coli (<1 taken as 0)	cfu/100ml	Acute Health Micro	≤ 0	21	20	95.2%	Good	P	Yes	0.05
Total Coliform Count (<1 taken as 0)	cfu/100ml	Operational	≤ 10	27	20	74.1%	Unacceptable	N	No	13.26
Free Chlorine	mg/L	Chronic Health	≤ 5	0	0			N		
Colour	mg/L	Aesthetic	≤ 15	0	0					
Alkalinity (as CaCO ₃)	mg/L		-	0						
Total Hardness (as CaCO ₃)	mg/L		-	0						
Calcium (as Ca)	mg/L	Aesthetic / Operation	≤ 150	0	0					
Magnesium (as Mg)	mg/L	Aesthetic / Health	≤ 70	0	0					
Sodium (as Na)	mg/L	Aesthetic	≤ 200	0	0			N		
Potassium (as K)	mg/L	Operational / Health	≤ 50	0	0					
Zinc (as Zn)	mg/L	Aesthetic	≤ 5	0	0			N		
Chloride (as Cl)	mg/L	Aesthetic	≤ 300	0	0			R		
Fluoride (as F)	mg/L	Chronic Health	≤ 1.5	0	0			R		
Sulphate (as SO ₄ ²⁻)	mg/L	Acute Health Chemical	≤ 500	0	0			N		
		Aesthetic	≤ 250	0	0			N		
Total Dissolved Solids	mg/L	Aesthetic	≤ 1 200	0	0			N		
Ammonia Nitrogen (as N)	mg/L	Aesthetic	≤ 1.5	0	0			N		
Nitrate & Nitrite Nitrogen (as N)	mg/L	Acute Health Chemical	≤ 12	0	0			R		
Iron (as Fe)	ug/L	Chronic Health	≤ 2000	0	0			N		
		Aesthetic	≤ 300	0	0			R		
Manganese (as Mn)	ug/L	Chronic Health	≤ 400	0	0			N		
		Aesthetic	< 100	0	0			R		
Aluminium (as Al)	ug/L	Operational	≤300	0	0					
Cytopathogenic Viruses	cfu/10 l	Acute Health Micro	≤ 0	0	0					
Cryptosporidium Species	cfu/10 l	Acute Health Micro	≤ 0	0	0					
Giardia Species	cfu/10 l	Acute Health Micro	≤ 0	0	0					
Chloroform	ug/L	Chronic Health	≤ 300	0	0			N		
Bromodichloromethane	ug/L	Chronic Health	≤ 60	0	0			N		
Dibromochloromethane	ug/L	Chronic Health	≤ 100	0	0			N		
Bromoform	ug/L	Chronic Health	≤ 100	0	0			N		
Somatic Coliphages	cfu/10ml	Operational	≤ 0	0	0					
Combined Trihalomethanes	mg/L	Chronic Health	≤ 1	0	0			N		
Phenols	ug/L	Aesthetic	≤10	0	0			N		
Calcium Hardness (as CaCO ₃)	mg/L		-	0						
Magnesium Hardness (as CaCO ₃)	mg/L		-	0						
Nitrate as N	mg/L	Acute Health Chemical	≤ 11	0	0			R		
Nitrite as N	mg/L	Acute Health Chemical	≤ 0.9	0	0			N		
Antimony (as Sb)	ug/L	Chronic Health	≤ 20	0	0			N		
Arsenic (as As)	ug/L	Chronic Health	≤ 10	0	0			N		
Cadmium (as Cd)	ug/L	Chronic Health	≤ 3	0	0			N		
Chromium (as Cr)	ug/L	Chronic Health	≤ 50	0	0			N		
Cobalt (as Co)	ug/L	Chronic Health	≤ 500	0	0					
Copper (as Cu)	ug/L	Chronic Health	≤ 2000	0	0			N		
Lead (as Pb)	ug/L	Chronic Health	≤ 10	0	0			N		
Mercury (as Hg)	ug/L	Chronic Health	≤ 6	0	0			N		
Nickel (as Ni)	ug/L	Chronic Health	≤ 70	0	0			N		
Selenium (as Se)	ug/L	Chronic Health	≤ 40	0	0			N		
Vanadium (as V)	ug/L	Chronic Health	≤ 200	0	0					
Cyanide	ug/L	Acute Health Chemical	≤ 200	0	0			N		
Total Organic Carbon	mg/L	Chronic Health	≤ 10	0	0					
Uranium (as U)	ug/L	Chronic Health	≤ 30	0	0			N		
Barium (as Ba)	ug/L	Chronic Health	≤ 700	0	0			N		
Boron (as B)	mg/L	Chronic Health	≤ 2.4	0	0			N		
CaCO ₃ Precipitation Potential			-	0						
Microcystin (as LR)	ug/L	Chronic Health	≤ 1	0	0					
Monochloramine	mg/L	Chronic Health	≤ 3	0	0			N		

Acute Health Chemical	0	0		
Acute Health Microbiological	21	20	95.2%	Good
Chronic Health	0	0		
Aesthetic	0	0		
Operational Efficiency	27	20	74.1%	Unacceptable

Nelspoort			SANS 241:2015	Compliance Calculations						
Parameter	Unit	Risk	Standard Limits (SANS 241-2011 and SANS 241- 2006 Class I)	Total Number of Samples	Number of Samples Complying	% Compliance Achieved	Performance (Population < 100 000)	Risk Character P = prescribed monitoring R = identified risk N = negligible risk	Compliance Status (Yes / No)	Average
Conductivity	mS/m	Aesthetic	≤ 170	0	0			P/N		
Turbidity	NTU	Operational	≤ 1	0	0			P/R		
		Aesthetic	≤ 5	0	0			P/R		
pH (at 25°C)		Operational	≥5.0 - ≤ 9.7	0	0			P		
Heterotrophic Plate Count	cfu/ml	Operational	≤ 1000	0	0			P		
E.Coli (<1 taken as 0)	cfu/100ml	Acute Health Micro	≤ 0	22	22	100.0%	Excellent	P	Yes	0.00
Total Coliform Count (<1 taken as 0)	cfu/100ml	Operational	≤ 10	26	24	92.3%	Good	N	Yes	3.15
Free Chlorine	mg/L	Chronic Health	≤ 5	0	0			N		
Colour	mg/L	Aesthetic	≤ 15	0	0					
Alkalinity (as CaCO ₃)	mg/L		-	0						
Total Hardness (as CaCO ₃)	mg/L		-	0						
Calcium (as Ca)	mg/L	Aesthetic / Operation	≤ 150	0	0					
Magnesium (as Mg)	mg/L	Aesthetic / Health	≤ 70	0	0					
Sodium (as Na)	mg/L	Aesthetic	≤ 200	0	0			N		
Potassium (as K)	mg/L	Operational / Health	≤ 50	0	0					
Zinc (as Zn)	mg/L	Aesthetic	≤ 5	0	0			N		
Chloride (as Cl)	mg/L	Aesthetic	≤ 300	0	0			R		
Fluoride (as F)	mg/L	Chronic Health	≤ 1.5	0	0			R		
Sulphate (as SO ₄ ²⁻)	mg/L	Acute Health Chemical	≤ 500	0	0			N		
		Aesthetic	≤ 250	0	0			N		
Total Dissolved Solids	mg/L	Aesthetic	≤ 1 200	0	0			N		
Ammonia Nitrogen (as N)	mg/L	Aesthetic	≤ 1.5	0	0			N		
Nitrate & Nitrite Nitrogen (as N)	mg/L	Acute Health Chemical	≤ 12	0	0			R		
Iron (as Fe)	ug/L	Chronic Health	≤ 2000	0	0			N		
		Aesthetic	≤ 300	0	0			R		
Manganese (as Mn)	ug/L	Chronic Health	≤ 400	0	0			N		
		Aesthetic	< 100	0	0			R		
Aluminium (as Al)	ug/L	Operational	≤300	0	0					
Cytopathogenic Viruses	cfu/10 l	Acute Health Micro	≤ 0	0	0					
Cryptosporidium Species	cfu/10 l	Acute Health Micro	≤ 0	0	0					
Giardia Species	cfu/10 l	Acute Health Micro	≤ 0	0	0					
Chloroform	ug/L	Chronic Health	≤ 300	0	0			N		
Bromodichloromethane	ug/L	Chronic Health	≤ 60	0	0			N		
Dibromochloromethane	ug/L	Chronic Health	≤ 100	0	0			N		
Bromoform	ug/L	Chronic Health	≤ 100	0	0			N		
Somatic Coliphages	cfu/10ml	Operational	≤ 0	0	0					
Combined Trihalomethanes	mg/L	Chronic Health	≤ 1	0	0			N		
Phenols	ug/L	Aesthetic	≤10	0	0			N		
Calcium Hardness (as CaCO ₃)	mg/L		-	0						
Magnesium Hardness (as CaCO ₃)	mg/L		-	0						
Nitrate as N	mg/L	Acute Health Chemical	≤ 11	0	0			R		
Nitrite as N	mg/L	Acute Health Chemical	≤ 0.9	0	0			N		
Antimony (as Sb)	ug/L	Chronic Health	≤ 20	0	0			N		
Arsenic (as As)	ug/L	Chronic Health	≤ 10	0	0			N		
Cadmium (as Cd)	ug/L	Chronic Health	≤ 3	0	0			N		
Chromium (as Cr)	ug/L	Chronic Health	≤ 50	0	0			N		
Cobalt (as Co)	ug/L	Chronic Health	≤ 500	0	0					
Copper (as Cu)	ug/L	Chronic Health	≤ 2000	0	0			N		
Lead (as Pb)	ug/L	Chronic Health	≤ 10	0	0			N		
Mercury (as Hg)	ug/L	Chronic Health	≤ 6	0	0			N		
Nickel (as Ni)	ug/L	Chronic Health	≤ 70	0	0			N		
Selenium (as Se)	ug/L	Chronic Health	≤ 40	0	0			N		
Vanadium (as V)	ug/L	Chronic Health	≤ 200	0	0					
Cyanide	ug/L	Acute Health Chemical	≤ 200	0	0			N		
Total Organic Carbon	mg/L	Chronic Health	≤ 10	0	0					
Uranium (as U)	ug/L	Chronic Health	≤ 30	0	0			N		
Barium (as Ba)	ug/L	Chronic Health	≤ 700	0	0			N		
Boron (as B)	mg/L	Chronic Health	≤ 2.4	0	0			N		
CaCO ₃ Precipitation Potential			-	0						
Microcystin (as LR)	ug/L	Chronic Health	≤ 1	0	0					
Monochloramine	mg/L	Chronic Health	≤ 3	0	0			N		

Acute Health Chemical	0	0		
Acute Health Microbiological	22	22	100.0%	Excellent
Chronic Health	0	0		
Aesthetic	0	0		
Operational Efficiency	26	24	92.3%	Good

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Conductivity	mS/m	Aesthetic	≤ 170	0	0			P/N		
Turbidity	NTU	Operational	≤ 1	0	0			P/R		
		Aesthetic	≤ 5	0	0			P/R		
pH (at 25°C)		Operational	≥5.0 - ≤ 9.7	0	0			P		
Heterotrophic Plate Count	cfu/ml	Operational	≤ 1000	0	0			P		
E.Coli (<1 taken as 0)	cfu/100ml	Acute Health Micro	≤ 0	19	19	100.0%	Excellent	P	Yes	0.00
Total Coliform Count (<1 taken as 0)	cfu/100ml	Operational	≤ 10	27	19	70.4%	Unacceptable	N	No	7.19
Free Chlorine	mg/L	Chronic Health	≤ 5	0	0			N		
Colour	mg/L	Aesthetic	≤ 15	0	0					
Alkalinity (as CaCO ₃)	mg/L		-	0						
Total Hardness (as CaCO ₃)	mg/L		-	0						
Calcium (as Ca)	mg/L	Aesthetic / Operation	≤ 150	0	0					
Magnesium (as Mg)	mg/L	Aesthetic / Health	≤ 70	0	0					
Sodium (as Na)	mg/L	Aesthetic	≤ 200	0	0			N		
Potassium (as K)	mg/L	Operational / Health	≤ 50	0	0					
Zinc (as Zn)	mg/L	Aesthetic	≤ 5	0	0			N		
Chloride (as Cl)	mg/L	Aesthetic	≤ 300	0	0			R		
Fluoride (as F)	mg/L	Chronic Health	≤ 1.5	0	0			R		
Sulphate (as SO ₄ ²⁻)	mg/L	Acute Health Chemical	≤ 500	0	0			N		
		Aesthetic	≤ 250	0	0			N		
Total Dissolved Solids	mg/L	Aesthetic	≤ 1 200	0	0			N		
Ammonia Nitrogen (as N)	mg/L	Aesthetic	≤ 1.5	0	0			N		
Nitrate & Nitrite Nitrogen (as N)	mg/L	Acute Health Chemical	≤ 12	0	0			R		
Iron (as Fe)	ug/L	Chronic Health	≤ 2000	0	0			N		
		Aesthetic	≤ 300	0	0			R		
Manganese (as Mn)	ug/L	Chronic Health	≤ 400	0	0			N		
		Aesthetic	< 100	0	0			R		
Aluminium (as Al)	ug/L	Operational	≤300	0	0					
Cytopathogenic Viruses	cfu/10 l	Acute Health Micro	≤ 0	0	0					
Cryptosporidium Species	cfu/10 l	Acute Health Micro	≤ 0	0	0					
Giardia Species	cfu/10 l	Acute Health Micro	≤ 0	0	0					
Chloroform	ug/L	Chronic Health	≤ 300	0	0			N		
Bromodichloromethane	ug/L	Chronic Health	≤ 60	0	0			N		
Dibromochloromethane	ug/L	Chronic Health	≤ 100	0	0			N		
Bromoform	ug/L	Chronic Health	≤ 100	0	0			N		
Somatic Coliphages	cfu/10ml	Operational	≤ 0	0	0					
Combined Trihalomethanes	mg/L	Chronic Health	≤ 1	0	0			N		
Phenols	ug/L	Aesthetic	≤10	0	0			N		
Calcium Hardness (as CaCO ₃)	mg/L		-	0						
Magnesium Hardness (as CaCO ₃)	mg/L		-	0						
Nitrate as N	mg/L	Acute Health Chemical	≤ 11	0	0			R		
Nitrite as N	mg/L	Acute Health Chemical	≤ 0.9	0	0			N		
Antimony (as Sb)	ug/L	Chronic Health	≤ 20	0	0			N		
Arsenic (as As)	ug/L	Chronic Health	≤ 10	0	0			N		
Cadmium (as Cd)	ug/L	Chronic Health	≤ 3	0	0			N		
Chromium (as Cr)	ug/L	Chronic Health	≤ 50	0	0			N		
Cobalt (as Co)	ug/L	Chronic Health	≤ 500	0	0					
Copper (as Cu)	ug/L	Chronic Health	≤ 2000	0	0			N		
Lead (as Pb)	ug/L	Chronic Health	≤ 10	0	0			N		
Mercury (as Hg)	ug/L	Chronic Health	≤ 6	0	0			N		
Nickel (as Ni)	ug/L	Chronic Health	≤ 70	0	0			N		
Selenium (as Se)	ug/L	Chronic Health	≤ 40	0	0			N		
Vanadium (as V)	ug/L	Chronic Health	≤ 200	0	0					
Cyanide	ug/L	Acute Health Chemical	≤ 200	0	0			N		
Total Organic Carbon	mg/L	Chronic Health	≤ 10	0	0					
Uranium (as U)	ug/L	Chronic Health	≤ 30	0	0			N		
Barium (as Ba)	ug/L	Chronic Health	≤ 700	0	0			N		
Boron (as B)	mg/L	Chronic Health	≤ 2.4	0	0			N		
CaCO ₃ Precipitation Potential			-	0						
Microcystin (as LR)	ug/L	Chronic Health	≤ 1	0	0					
Monochloramine	mg/L	Chronic Health	≤ 3	0	0			N		

Acute Health Chemical	0	0		
Acute Health Microbiological	19	19	100.0%	Excellent
Chronic Health	0	0		
Aesthetic	0	0		
Operational Efficiency	27	19	70.4%	Unacceptable