

Optimum Product Compliance - Jul to Dec 2017						
Parameters	Limit	Average	# Samples	# Comply	% Compliance	Risk Character
E. Coli (MF)	0	0.00	43	42	97.67%	Micro Health
Aluminium	300	45.85	26	26	100.00%	Operational
Heterotrophic Plate Count	1000	102.50	44	42	95.45%	Operational
pH @ 25°C	≥5 to ≤9.7	7.65	26	26	100.00%	Operational
Turbidity	1	#DIV/0!	0	0	#DIV/0!	Operational
Total Coliforms	10	11.19	36	35	97.22%	Operational
Ammonia as N	1.5	0.17	26	26	100.00%	Aesthetic
Chloride	300	10.15	26	26	100.00%	Aesthetic
Electrical Conductivity @ 25°C	170	41.76	26	26	100.00%	Aesthetic
Iron	300	43.85	26	26	100.00%	Aesthetic
Manganese	100	10.00	26	26	100.00%	Aesthetic
Sodium as Na	200	22.28	26	26	100.00%	Aesthetic
Sulphate (as SO4) (filtered)	250	157.72	26	24	92.31%	Aesthetic
Total Dissolved Solids	1200	295.19	26	26	100.00%	Aesthetic
Turbidity	1	#DIV/0!	0	0	#DIV/0!	Aesthetic
Barium as Ba	700	29.17	26	26	100.00%	Chemical Health
Fluoride	1.5	0.11	26	26	100.00%	Chemical Health
Nitrate as N	11	0.93	26	26	100.00%	Chemical Health
Sulphate (as SO4) (filtered)	500	157.72	26	26	100.00%	Chemical Health
Manganese	400	10.00	26	26	100.00%	Chemical Health
Iron	1000	43.85	26	26	100.00%	Chemical Health
Calcium	150	30.95	26	26	100.00%	Other
Magnesium	70	14.71	26	26	100.00%	Other
Potassium as K	50	5.87	26	26	100.00%	Other
Alkalinity - Total as CaCO3		26.89	26			Other
Total Suspended Solids		2.46	26			Other

Compliance Per Risk Character - Jul to Dec 2017				
Plant				
Risk Character	Reqd	# Samples	# Comply	% Compliance
Operational	93%	132	129	97.73%
Aesthetic	93%	208	206	99.04%
Chemical Health	95%	156	156	100.00%
Micro Health	97%	43	42	97.67%
Other	n/a	78	78	100.00%
Plant Full SANS				
Risk Character	Reqd	# Samples	# Comply	% Compliance
Operational	93%	4	4	100.00%
Aesthetic	93%	12	12	100.00%
Chemical Health	95%	27	27	100.00%
Micro Health	97%	2	2	100.00%
Distribution				
Risk Character	Reqd	# Samples	# Comply	% Compliance
Operational	93%	40	37	92.50%
Aesthetic	93%	80	77	96.25%
Chemical Health	95%	42	42	100.00%
Micro Health	97%	0	0	#DIV/0!
Distribution Full SANS				
Risk Character	Reqd	# Samples	# Comply	% Compliance
Operational	93%			#DIV/0!
Aesthetic	93%			#DIV/0!
Chemical Health	95%			#DIV/0!
Micro Health	97%			#DIV/0!
Combined				
Risk Character	Reqd	# Samples	# Comply	% Compliance
Operational	93%	176	170	96.59%
Aesthetic	93%	300	295	98.33%
Chemical Health	95%	225	225	100.00%
Micro Health	97%	45	44	97.78%
Blue Drop Score lost				
Risk Character	Reqd	# Samples	# Comply	Penalty
Operational	93%	176	170	0
Aesthetic	93%	300	295	0
Chemical Health	95%	225	225	0
Micro Health	97%	45	44	0
Insufficient data				0
Total Penalty				0

Optimum Distr Compliance - Jul to Dec 2017						
Parameters	Limit	Average	# Samples	# Comply	% Compliance	Risk Character
E. Coli (MF)	0	#DIV/0!	0	0	#DIV/0!	Micro Health
Heterotrophic Plate Count	1000	#DIV/0!	0	0	#DIV/0!	Operational
Turbidity	1	0.5	20	18	90.00%	Operational
pH @ 25°C	≥5 to ≤9.7	7.9	20	19	95.00%	Operational
Turbidity	5	0.5	20	20	100.00%	Aesthetic
Colour	15	10.0	20	20	100.00%	Aesthetic
Electrical Conductivity @ 25°C	170	50.8	20	20	100.00%	Aesthetic
Sulphate as SO4 <sup>2-</sup>	250	204.6	20	17	85.00%	Aesthetic
Residual Chlorine	5	1.0	18	18	100.00%	Chemical Health
Sulphate as SO4 <sup>2-</sup>	500	204.6	20	20	100.00%	Chemical Health
Calcium as Ca	300	40.9	22	22	100.00%	Other
Magnesium as Mg	70	19.8	4	4	100.00%	Other

Water Stability - Jul to Dec 2017			
Index	Target	Average Value	Stability
LSI	0 to -0.15	-1.29	Stable
RSI	6 to 10	10.28	Mildly aggressive

Optimum Raw - Jul to Dec 2017						
Parameters	Limit	Average	# Samples	# Comply	% Compliance	Risk Character
E. Coli (MF)	0	11	11	2	18.18%	Micro Health
Aluminium as Al	300	53.14	22	22	100.00%	Operational
pH @ 25°C	≥5 to ≤9.7	8.2	22	22	100.00%	Operational
Ammonia as N	1.5	0.14	22	22	100.00%	Aesthetic
Chloride	300	22.25	22	22	100.00%	Aesthetic
Electrical Conductivity @ 25°C	170	462	22	0	0.00%	Aesthetic
Iron	300	43	22	22	100.00%	Aesthetic
Manganese	100	12	22	22	100.00%	Aesthetic
Sodium as Na	200	158.91	22	21	95.45%	Aesthetic
Sulphate (as SO4) (filtered)	250	3495.91	22	0	0.00%	Aesthetic
Total Dissolved Solids @ 105°C	250	5354.36	22	0	0.00%	Aesthetic
Turbidity	5	#DIV/0!	0	0	#DIV/0!	Aesthetic
Fluoride	1.5	0.25	22	22	100.00%	Chemical Health
Nitrate as N	11	0.9	22	22	100.00%	Chemical Health
Sulphate (as SO4) (filtered)	500	3495.91	22	0	0.00%	Chemical Health
Manganese	400	12.57	9	9	100.00%	Chemical Health
Iron	1000	32.22	9	9	100.00%	Chemical Health
Calcium	150	467.50	22	0	0.00%	Other
Magnesium	70	538	22	0	0.00%	Other
Potassium as K	50	48	22	18	81.82%	Other
Alkalinity - Total as CaCO3	None	169.36				Other
Chemical Oxygen Demand	None	14.25				Other
Fats, Oils & Grease	None	4.59				Other
Ortho-Phosphate as P	None	0.72				Other
Silicon as Si	None	3.21				Other
Strontium as Sr	4000 (EPA)	2572.27	22	22	100.00%	Other
Total Suspended Solids	None	4.62				Other