

Test Methods

Test ID	Parameter	Method Name	Method Description	Units	LoQ
C1	Electrical conductivity*	Electrical conductivity	Method 2510 B. (adapted from Standard methods for the examination of water and waste water, 22 nd edition)	µS/cm	0
C2	pH*	pH	Method 4500-H ⁺ B. (adapted from Standard methods for the examination of water and waste water, 22 nd edition)	-	-
C3	Salinity	Salinity	Method 2520 B. (adapted from Standard methods for the examination of water and waste water, 22 nd edition)	‰	0
C4	Temperature	Temperature	Electrometry	°C	-
C5	Total Dissolved Solids	Total Dissolved Solids	Electrometry	mg/L	0
C6	Total Suspended Solids (TSS)	Total Suspended Solids (TSS)	Method 8006 (Adapted from HACH DR5000 Spectrophotometer procedure Manual)	mg/L	5
C7	Turbidity*	Turbidity	HACH Nephelometric Method (adapted from HACH 2100N Turbidimeter User Manual)	NTU	0.1
C8	Free Residual chlorine	Free Residual chlorine	Method 8021 (Adapted from HACH DR5000 Spectrophotometer procedure Manual)	mg/L	0.02
C9	Chlorine, Total	Chlorine, Total	Method 8167 (Adapted from HACH DR5000 Spectrophotometer procedure Manual)	mg/L	0.02
C10	Chlorine, Dioxide	Chlorine, Dioxide	Method 10126 (Adapted from HACH DR5000 Spectrophotometer procedure Manual)	mg/L	0.04
C11	Bromine	Bromine	Method 8016 (Adapted from HACH DR5000 Spectrophotometer procedure Manual)	mg/L	0.05
C12	Chloride	Chloride _{HR}	In-house Test method (Adapted from M926 Chloride analyzer Operation Manual)	mg/L	10
		Chloride _{ULR}	Potentiometry	mg/L	0.1
C13	Chromium Hexavalent	Chromium Hexavalent	Method 8023 (Adapted from HACH DR5000 Spectrophotometer procedure Manual)	mg/L	0.01
C14	Copper*	Copper	Method 8506 (Adapted from HACH DR5000 Spectrophotometer procedure Manual)	mg/L	0.1
C15	Fluoride*	Fluoride	Method 8029 (Adapted from HACH DR5000 Spectrophotometer procedure Manual)	mg/L	0.5
C16	Iodine	Iodine	Method 8031 (Adapted from HACH DR5000 Spectrophotometer procedure Manual)	mg/L	0.07
C17	Iron	Iron	Method 8008 (Adapted from HACH DR5000 Spectrophotometer procedure Manual)	mg/L	0.02
		Iron _{ICP}	Method 3120 B. (adapted from Standard methods for the examination of water and waste water, 22 nd edition)	mg/L	0.01
C18	Manganese	Manganese _{HR}	Method 8034 (Adapted from HACH DR5000 Spectrophotometer procedure Manual)	mg/L	0.1
		Manganese _{LR}	Method 8149 (Adapted from HACH DR5000 Spectrophotometer procedure Manual)	mg/L	0.006
C19		Nitrate _{MR}	Method 8171 (Adapted from HACH DR5000 Spectrophotometer procedure Manual)	mg/L	0.1
C20	Nitrite	Nitrite	Method 8507 (Adapted from HACH DR5000 Spectrophotometer procedure Manual)	mg/L	0.002
C21	Nitrogen Ammonia	Nitrogen Ammonia	Method 8038 (Adapted from HACH DR5000 Spectrophotometer procedure Manual)	mg/L	0.02
C22	Sulphate*	Sulphate	Method 8051 (Adapted from HACH DR5000 Spectrophotometer procedure Manual)	mg/L	10
C23	Sulphide	Sulphide	Method 8131 (Adapted from HACH DR5000 Spectrophotometer procedure Manual)	µg/L	5
C24	Ozone	Ozone	Method 8311 (Adapted from HACH DR5000 Spectrophotometer procedure Manual)	mg/L	0.01
C25	Aluminum	Aluminum	Method 8326 (Adapted from HACH DR5000 Spectrophotometer procedure Manual)	mg/L	0.002
C26	Barium	Barium	Method 8014 (Adapted from HACH DR5000 Spectrophotometer procedure Manual)	mg/L	2
C27	Cobalt	Cobalt	Method 8078 (Adapted from HACH DR5000 Spectrophotometer procedure Manual)	mg/L	0.01
C28	Nickel	Nickel	Method 8150 (Adapted from HACH DR5000 Spectrophotometer procedure Manual)	mg/L	0.006
C29	Calcium Hardness	Calcium Hardness _{HR}	HACH Method 8204	mg/L	4
		Calcium Hardness _{LR}	Method 8030 (Adapted from HACH DR5000 Spectrophotometer procedure Manual)	mg/L	0.05
C30	Magnesium Hardness	Magnesium Hardness _{HR}	HACH Method 8329	mg/L	4
		Magnesium Hardness _{LR}	Method 8030 (Adapted from HACH DR5000 Spectrophotometer procedure Manual)	mg/L	0.05
C31	Total Hardness	Total Hardness _{HR}	HACH Method 8213	mg/L	4
		Total Hardness _{LR}	Method 8030 (Adapted from HACH DR5000 Spectrophotometer procedure Manual)	mg/L	0.05
C32	Magnesium	Magnesium _{HR}	HACH Method 8329	mg/L	1
		Magnesium _{LR}	Method 8030 (Adapted from HACH DR5000 Spectrophotometer procedure Manual)	mg/L	0.01
C33	Calcium	Calcium _{HR}	HACH Method 8329	mg/L	1.6
		Calcium _{LR}	Method 8030 (Adapted from HACH DR5000 Spectrophotometer procedure Manual)	mg/L	0.02
C34	Total Alkalinity	Total Alkalinity	HACH Method 8203	mg/L	10
C35	Boron	Boron	Method 8015 (Adapted from HACH DR5000 Spectrophotometer procedure Manual)	mg/L	0.2
C36	Phosphate*	Phosphate	Method 8048 (Adapted from HACH DR5000 Spectrophotometer procedure Manual)	mg/L	0.05

Test ID	Parameter	Method Name	Method Description	Units	LoQ
C37	Chemical Oxygen Demand (COD)	Chemical Oxygen Demand (COD)	Method 8000 (Adapted from HACH DR5000 Spectrophotometer procedure Manual)	mg/L	3
C39	Oxygen Dissolved (DO)	Oxygen Dissolved (DO)	Standard Methods 19 th edition APHA	mg/L	1
C40	Biological Oxygen Demand (BOD)	Biological Oxygen Demand (BOD)	HACH Method 8043	mg/L	1
C41	Apparent colour	Apparent colour	Method 8025 (Adapted from HACH DR5000 Spectrophotometer procedure Manual)	mg/L PtCo	15
C42	True colour	True colour	Method 8025 (Adapted from HACH DR5000 Spectrophotometer procedure Manual)	mg/L PtCo	15
C43	Phenols	Phenols	Method 8047 (Adapted from HACH DR5000 Spectrophotometer procedure Manual)	mg/L	0.002
C44	Zinc	Zinc	Method 8009 (Adapted from HACH DR5000 Spectrophotometer procedure Manual)	mg/L	0.01
C49	Total Petroleum Hydrocarbon	TPH	UV Fluorescence	mg/L	0.025
C50	Potassium	Potassium Spectro	Method 8049 (Adapted from HACH DR5000 Spectrophotometer procedure Manual)	mg/L	0.1
M1	Total Coliforms	Total Coliforms (Coli-blue)	HACH Method10029	CFU/100ml	0
		Total Coliforms (Colilert)	Colilert®-18/Quanti-Tray®	MPN/100ml	0
		Total Coliforms (Colilert) HR	Colilert®-18/Quanti-Tray®2000	MPN/100ml	0
M2	Faecal Coliforms	Faecal Coliforms	HACH Method 8074	CFU/100mL	0
		Faecal Coliforms (Colilert)	Colilert®-18/Quanti-Tray®	MPN/100ml	0
		Faecal Coliforms (Colilert) HR	Colilert®-18/Quanti-Tray®2000	MPN/100ml	0
M3	E.Coli	E.coli (Coli-blue)	HACH Method 10029	CFU/100mL	0
		E.coli (Colilert)	Colilert®-18/Quanti-Tray®	MPN/100ml	0
		E.coli (Colilert) HR	Colilert®-18/Quanti-Tray®2000	MPN/100ml	0
M4	Heterotrophic Plate Count (HPC)	Heterotrophic Plate Count	HACH Method 8242	CFU/100mL	0
		HPC for Quanti-Tray®	HPC for Quanti-Tray®	MPN/100ml	0
		HPC for Quanti-Tray® HR	HPC for Quanti-Tray®2000	MPN/100ml	0
M5	Pseudomonas	Pseudomonas	HACH Method 8026	CFU/100ml	0
		Pseudalert®	Pseudalert®/Quanti-Tray®	MPN/100ml	0
		Pseudalert® HR	Pseudalert®/Quanti-Tray®2000	MPN/100ml	0
M8	Enterococcus	Enterococcus	Standard Methods 19 th edition APHA	CFU/100mL	0
		Enterolert®	Enterolert®/ Quanti-Tray®	MPN/100ml	0
		Enterolert® HR	Enterolert®/ Quanti-Tray®2000	MPN/100ml	0

Keys

LoQ: Limit of Quantification

µS/cm: Micro Siemens per centimeter

‰: Parts per thousand

°C: Degree Celcius

mg/L: milligrams per litre

NTU: Nephelometric Turbidity Unit

µg/L: Micrograms per litre

mg/L PtCo: Milligrams per litre Platinum-Cobalt units

CFU/100ml: Colony Forming Units per 100 millilitres

MPN/100ml: Most Probable Number per 100 milliliters