

## TEST REPORT

Report No: QMTL/R-96432/2020

<b>CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES</b> Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-96432
		Date Received	05 Mar 2020
		Date(s) Tested	05 Mar 2020 - 07 Mar 2020
<b>ATTN : MR. JASMAN PINTO</b>		Date Reported	09 Mar 2020
Sample Description	L4 - Cooling Tower -1		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	HEALTHPOINT HOSPITAL	Sampling Date/Time	05.03.2020/02:15 PM
Sample Container	1x500ml PB	Sampling Point	Cooling Tower 1
Sample Receipt Temp	4.5°C	Sample Onsite Temp	22°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

## TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>MICROBIOLOGICAL ANALYSIS</b>				
E.coli	APHA 9222 H & I (23rd Edition)	CFU/100 ml	-	Zero
Fecal Coliforms	APHA 9222 D (23rd Edition)	CFU/100 ml	-	Zero
Pseudomonas aeruginosa	APHA 9213 E (23rd Edition)	CFU/100 ml	-	Zero
Total Bacterial Count	APHA 9215 B (23rd Edition)	CFU/ml	10,000	260
Total Coliforms	APHA 9222 B (23rd Edition)	CFU/100 ml	-	Zero

Remarks	The sample meets DM Water Systems quality (2010) specifications for Cooling Water Systems with respect to the above tests only.
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Keywords	CFU: Colony Forming Unit, APHA: American Public Health Association, DM: Dubai Municipality, WI: Work Instruction, NA: Not Applicable, NP: Not Provided
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Test method deviation	None
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Test performed by Emp#	74 & 78
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Report prepared by Emp#	72
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The above test results are only applicable to the sample(s) referred above.

Reported By



**ANILA GEORGE**  
**LABORATORY MANAGER**

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**END OF REPORT**

## TEST REPORT

Report No: QMTL/R-96433/2020

<b>CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES</b> Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-96433
		Date Received	05 Mar 2020
		Date(s) Tested	05 Mar 2020 - 07 Mar 2020
<b>ATTN : MR. JASMAN PINTO</b>		Date Reported	09 Mar 2020
Sample Description	<b>L4 - Cooling Tower -2</b>		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	HEALTHPOINT HOSPITAL	Sampling Date/Time	05.03.2020/02:26 PM
Sample Container	1x500ml PB	Sampling Point	Cooling Tower 2
Sample Receipt Temp	4.5°C	Sample Onsite Temp	22.5°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

## TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>MICROBIOLOGICAL ANALYSIS</b>				
E.coli	APHA 9222 H & I (23rd Edition)	CFU/100 ml	-	Zero
Fecal Coliforms	APHA 9222 D (23rd Edition)	CFU/100 ml	-	Zero
Pseudomonas aeruginosa	APHA 9213 E (23rd Edition)	CFU/100 ml	-	Zero
Total Bacterial Count	APHA 9215 B (23rd Edition)	CFU/ml	10,000	180
Total Coliforms	APHA 9222 B (23rd Edition)	CFU/100 ml	-	Zero

Remarks	The sample meets DM Water Systems quality (2010) specifications for Cooling Water Systems with respect to the above tests only.
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Keywords	CFU: Colony Forming Unit, APHA: American Public Health Association, DM: Dubai Municipality, WI: Work Instruction, NA: Not Applicable, NP: Not Provided
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Test method deviation	None
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Test performed by Emp#	74 & 78
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Report prepared by Emp#	72
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## TEST REPORT

Report No: QMTL/R-96434/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-96434
ATTN : MR. JASMAN PINTO		Date Received	05 Mar 2020
		Date(s) Tested	05 Mar 2020 - 07 Mar 2020
		Date Reported	09 Mar 2020
Sample Description	L4 - Cooling Tower -3		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	HEALTHPOINT HOSPITAL	Sampling Date/Time	05.03.2020/02:43 PM
Sample Container	1x500ml PB	Sampling Point	Cooling Tower 3
Sample Receipt Temp	4.5°C	Sample Onsite Temp	28°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

## TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>MICROBIOLOGICAL ANALYSIS</b>				
E.coli	APHA 9222 H & I (23rd Edition)	CFU/100 ml	-	Zero
Fecal Coliforms	APHA 9222 D (23rd Edition)	CFU/100 ml	-	Zero
Pseudomonas aeruginosa	APHA 9213 E (23rd Edition)	CFU/100 ml	-	Zero
Total Bacterial Count	APHA 9215 B (23rd Edition)	CFU/ml	10,000	200
Total Coliforms	APHA 9222 B (23rd Edition)	CFU/100 ml	-	Zero

Remarks	The sample meets DM Water Systems quality (2010) specifications for Cooling Water Systems with respect to the above tests only.
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Keywords	CFU: Colony Forming Unit, APHA: American Public Health Association, DM: Dubai Municipality, WI: Work Instruction, NA: Not Applicable, NP: Not Provided
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Test method deviation	None
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Test performed by Emp#	74 & 78
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Report prepared by Emp#	72
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## TEST REPORT

Report No: QMTL/R-96435/2020

<b>CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES</b> Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-96435
<b>ATTN : MR. JASMAN PINTO</b>		Date Received	05 Mar 2020
		Date(s) Tested	05 Mar 2020 - 07 Mar 2020
		Date Reported	09 Mar 2020
Sample Description	<b>L4 - Cooling Tower -4</b>		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	HEALTHPOINT HOSPITAL	Sampling Date/Time	05.03.2020/03:00 PM
Sample Container	1x500ml PB	Sampling Point	Cooling Tower 4
Sample Receipt Temp	4.5°C	Sample Onsite Temp	25.3°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

## TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>MICROBIOLOGICAL ANALYSIS</b>				
E.coli	APHA 9222 H & I (23rd Edition)	CFU/100 ml	-	Zero
Fecal Coliforms	APHA 9222 D (23rd Edition)	CFU/100 ml	-	Zero
Pseudomonas aeruginosa	APHA 9213 E (23rd Edition)	CFU/100 ml	-	Zero
Total Bacterial Count	APHA 9215 B (23rd Edition)	CFU/ml	10,000	160
Total Coliforms	APHA 9222 B (23rd Edition)	CFU/100 ml	-	Zero

Remarks	The sample meets DM Water Systems quality (2010) specifications for Cooling Water Systems with respect to the above tests only.
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Keywords	CFU: Colony Forming Unit, APHA: American Public Health Association, DM: Dubai Municipality, WI: Work Instruction, NA: Not Applicable, NP: Not Provided
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Test method deviation	None
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Test performed by Emp#	74 & 78
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Report prepared by Emp#	72
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**END OF REPORT**

## TEST REPORT

Report No: QMTL/R-96431/2020

<b>CLIENT:- CRYSTALLINE ENVIRONMENTAL SERVICES</b> P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017  <b>ATTN: Mr. JASMAN PINTO</b>	Sample ID	QMTL/S-96431	
	Date Received	05 Mar 2020	
	Date(s) Tested	05 Mar 2020-10 Mar 2020	
	Date Reported	14 Mar 2020	
Sample Description	Copper Silver Ionisation, P2-Water Tank-6		
Sample Type	Water	Sampling Method	QMTL-SOP-WI-128
Client Name/Project	HEALTHPOINT HOSPITAL	Sampled By	QMTL Representative
Location	Abu Dhabi	Sampling Date/Time	05.03.2020/02:10 PM
Sample Container	1x500ml PB	Sampling Point	Tank
Sample Receipt Temp	4.5°C	Sample On-site Temp	17.3°C
Sample Appearance	Clear	On-site Treatment	NP
Reference	NP		

### TEST RESULTS

PARAMETERS	TEST METHOD (APHA 23 <sup>RD</sup> EDITION)	UNITS	SPECIFICATION	RESULTS
<b>CHEMICAL ANALYSIS</b>				
pH @24.3°C	APHA 4500-H <sup>+</sup> B	--	7.0 - 9.2	7.73
Conductivity @24°C	APHA 2510	µs/cm	-	227
Total Dissolved Solids@180°C	APHA 2540-C	mg/L	Min 100 – Max 1000	147
Chloride (Cl)	APHA 4500-Cl <sup>-</sup> B	mg/L	Max 250	37.12
Calcium Hardness as CaCO <sub>3</sub>	APHA 3500-Ca B	mg/L	Max 200	55.03
Total Hardness as (CaCO <sub>3</sub> )	APHA 2340-C	mg/L	Max 300	60.93
Iron (Fe)	APHA 3120 B	mg/L	Max 0.2	<0.05
Copper (Cu)	APHA 3120 B	mg/L	Max 1.0	<0.05
Silver (Ag)	APHA 3120 B	mg/L	Max 5.0	<0.05

Remarks	The sample meets RSB Water Quality Regulations (4 <sup>th</sup> Edition) January 2014 requirements for potable water with respect to the above tests only.
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Keywords	pH: Potential Hydrogen, APHA: American Public Health Association, RSB: Regulation & Supervision Bureau, NP: Not Provided
Test Method Deviation	None
Test performed by Emp#	27
Report prepared by Emp#	75
The above test results are only applicable to the sample(s) referred above.	

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**END OF REPORT**

## TEST REPORT

Report No: QMTL/R-96430/2020

<b>CLIENT:- CRYSTALLINE ENVIRONMENTAL SERVICES</b> P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017	Sample ID	QMTL/S-96430	
	Date Received	05 Mar 2020	
	Date(s) Tested	05 Mar 2020-10 Mar 2020	
	Date Reported	14 Mar 2020	
<b>ATTN: Mr. JASMAN PINTO</b>			
Sample Description	<b>Copper Silver Ionisation, P2-Water Tank-5</b>		
Sample Type	Water	Sampling Method	QMTL-SOP-WI-128
Client Name/Project	HEALTHPOINT HOSPITAL	Sampled By	QMTL Representative
Location	Abu Dhabi	Sampling Date/Time	05.03.2020/02:00 PM
Sample Container	1x500ml PB	Sampling Point	Tank
Sample Receipt Temp	4.5°C	Sample On-site Temp	29.5°C
Sample Appearance	Clear	On-site Treatment	NP
Reference	NP		

### TEST RESULTS

PARAMETERS	TEST METHOD (APHA 23 <sup>RD</sup> EDITION)	UNITS	SPECIFICATION	RESULTS
<b>CHEMICAL ANALYSIS</b>				
pH @24.1°C	APHA 4500-H <sup>+</sup> B	--	7.0 - 9.2	7.66
Conductivity @24.1°C	APHA 2510	µs/cm	-	213
Total Dissolved Solids@180°C	APHA 2540-C	mg/L	Min100 – Max 1000	138
Chloride (Cl)	APHA 4500-Cl <sup>-</sup> B	mg/L	Max 250	35.19
Calcium Hardness as CaCO <sub>3</sub>	APHA 3500-Ca B	mg/L	Max 200	53.06
Total Hardness as (CaCO <sub>3</sub> )	APHA 2340-C	mg/L	Max 300	58.96
Iron (Fe)	APHA 3120 B	mg/L	Max 0.2	<0.05
Copper (Cu)	APHA 3120 B	mg/L	Max 1.0	<0.05
Silver (Ag)	APHA 3120 B	mg/L	Max 5.0	<0.05

Remarks	The sample meets RSB Water Quality Regulations (4 <sup>th</sup> Edition) January 2014 requirements for potable water with respect to the above tests only.
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Keywords	pH: Potential Hydrogen, APHA: American Public Health Association, RSB: Regulation & Supervision Bureau, NP: Not Provided
Test Method Deviation	None
Test performed by Emp#	27
Report prepared by Emp#	75
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