

## TEST REPORT

Report No: QMTL/R-95687/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-95687
ATTN : MR. JASMAN PINTO		Date Received	29 Feb 2020
		Date(s) Tested	29 Feb 2020 - 02 Mar 2020
		Date Reported	04 Mar 2020
Sample Description	L-4, 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	29.02.2020/03:50 PM
Sample Container	1x500ml PB	Sampling Point	Cooling Tower -1
Sample Receipt Temp	5.3°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	220
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 & 55
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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-95688/2020

<b>CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES</b> Abu Dhabi PO Box : 131463 United Arab Emirates  <b>ATTN : MR. JASMAN PINTO</b>	Sample ID	QMTL/S-95688		
	Date Received	29 Feb 2020		
	Date(s) Tested	29 Feb 2020 - 02 Mar 2020		
	Date Reported	04 Mar 2020		
Sample Description	<b>L-4, 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	29.02.2020/03:53 PM	
Sample Container	1x500ml PB	Sampling Point	Cooling Tower -2	
Sample Receipt Temp	5.3°C	Sample Onsite Temp	21.8°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 & 55
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Report prepared by Emp#	72
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**ANILA GEORGE**  
**LABORATORY MANAGER**

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**END OF REPORT**

## TEST REPORT

Report No: QMTL/R-95689/2020

<b>CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES</b> Abu Dhabi PO Box : 131463 United Arab Emirates  <b>ATTN : MR. JASMAN PINTO</b>	Sample ID	QMTL/S-95689	
	Date Received	29 Feb 2020	
	Date(s) Tested	29 Feb 2020 - 02 Mar 2020	
	Date Reported	04 Mar 2020	
Sample Description	L-4, 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	29.02.2020/03:56 PM
Sample Container	1x500ml PB	Sampling Point	Cooling Tower -3
Sample Receipt Temp	5.3°C	Sample Onsite Temp	27.5°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	210
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 & 55
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Report prepared by Emp#	72
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## TEST REPORT

Report No: QMTL/R-95690/2020

<b>CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES</b> Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-95690
<b>ATTN : MR. JASMAN PINTO</b>		Date Received	29 Feb 2020
		Date(s) Tested	29 Feb 2020 - 02 Mar 2020
		Date Reported	04 Mar 2020
Sample Description	L-4, Cooling Tower 4		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	HEALTHPOINT HOSPITAL	Sampling Date/Time	29.02.2020/04:00 PM
Sample Container	1x500ml PB	Sampling Point	Cooling Tower -4
Sample Receipt Temp	5.3°C	Sample Onsite Temp	25°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	130
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 & 55
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Report prepared by Emp#	72
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**END OF REPORT**

**TEST REPORT**

Report No: QMTL/R-95684/2020

<b>CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES</b> Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-95684
<b>ATTN : MR. JASMAN PINTO</b>		Date Received	29 Feb 2020
		Date(s) Tested	29 Feb 2020 - 02 Mar 2020
		Date Reported	04 Mar 2020
Sample Description	<b>P-1 Hydrotherapy Pool</b>		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	HEALTHPOINT HOSPITAL	Sampling Date/Time	29.02.2020/03:20 PM
Sample Container	1x500ml PB	Sampling Point	Pool
Sample Receipt Temp	5.3°C	Sample Onsite Temp	33°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

**TEST RESULTS**

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>MICROBIOLOGICAL ANALYSIS</b>				
Total Bacterial Count	Dip Slide	CFU/ml	1000	<1

Remarks: The sample meets DM Water Systems quality (2010) specifications for Pool Water with respect to the above tests only.

Keywords: CFU: Colony Forming Unit, DM: Dubai Municipality, WI: Work Instruction, NA: Not Applicable, NP: Not Provided

Test method deviation	None
Test performed by Emp#	74 & 55
Report prepared by Emp#	72

The above test results are only applicable to the sample(s) referred above.

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## TEST REPORT

Report No: QMTL/R-95685/2020

<b>CLIENT:- CRYSTALLINE ENVIRONMENTAL SERVICES</b>		Sample ID	QMTL/S-95685
P.O.Box.131463, Abu Dhabi, U.A.E		Date Received	29 Feb 2020
Ph:02-6508930/0557167017		Date(s) Tested	29 Feb 2020-03 Mar 2020
<b>ATTN: Mr. JASMAN PINTO</b>		Date Reported	04 Mar 2020
Sample Description	Copper Silver Ionisation, P2-Water Tank-5		
Sample Type	Water	Sampling Method	QMTL-SOP- 128
Client Name/Project	HEALTH POINT HOSPITAL	Sampled By	QMTL Representative
Location	Abu Dhabi	Sampling Date/Time	29.02.2020/ 04:15 PM
Sample Container	1x500mL PB	Sampling Point	Tank
Sample Receipt Temp	5.3°C	Sample On-site Temp	30°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

## TEST RESULTS

PARAMETERS	TEST METHODS (APHA 23 <sup>RD</sup> EDITION)	UNITS	LIMITS	RESULTS
<b>CHEMICAL ANALYSIS</b>				
pH @23.9°C	APHA 4500-H <sup>+</sup> B	--	7.0 - 9.2	7.59
Conductivity @23.8°C	APHA 2510	µs/cm	-	208.0
Total Dissolved Solids@180°C	APHA 2540-C	mg/L	Min100 – Max 1000	131.0
Chloride (Cl)	APHA 4500-Cl <sup>-</sup> B	mg/L	Max 250	33.8
Calcium Hardness as CaCO <sub>3</sub>	APHA 3500-Ca B	mg/L	Max 200	56.9
Total Hardness as (CaCO <sub>3</sub> )	APHA 2340-C	mg/L	Max 300	58.9
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	APHA: American Public Health Association, RSB: Regulation & Supervision Bureau, NA: Not Applicable, NP: Not Provided
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Test Method Deviation	None
Test performed by Emp#	35
Report prepared by Emp#	22
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## TEST REPORT

Report No: QMTL/R-95686/2020

<b>CLIENT:- CRYSTALLINE ENVIRONMENTAL SERVICES</b> P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017		Sample ID	QMTL/S-95686
<b>ATTN: Mr. JASMAN PINTO</b>		Date Received	29 Feb 2020
		Date(s) Tested	29 Feb 2020-03 Mar 2020
		Date Reported	04 Mar 2020
Sample Description	Copper Silver Ionisation, P2-Water Tank-6		
Sample Type	Water	Sampling Method	QMTL-SOP- 128
Client Name/Project	HEALTH POINT HOSPITAL	Sampled By	QMTL Representative
Location	Abu Dhabi	Sampling Date/Time	29.02.2020/ 04:15 PM
Sample Container	1x500mL PB	Sampling Point	Tank
Sample Receipt Temp	5.3°C	Sample On-site Temp	17.1°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

## TEST RESULTS

PARAMETERS	TEST METHODS (APHA 23 <sup>RD</sup> EDITION)	UNITS	LIMITS	RESULTS
<b>CHEMICAL ANALYSIS</b>				
pH @22.8°C	APHA 4500-H <sup>+</sup> B	--	7.0 - 9.2	7.86
Conductivity @22.6°C	APHA 2510	µs/cm	-	224.0
Total Dissolved Solids@180°C	APHA 2540-C	mg/L	Min100 – Max 1000	141.0
Chloride (Cl)	APHA 4500-Cl B	mg/L	Max 250	36.7
Calcium Hardness as CaCO <sub>3</sub>	APHA 3500-Ca B	mg/L	Max 200	58.96
Total Hardness as (CaCO <sub>3</sub> )	APHA 2340-C	mg/L	Max 300	62.9
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	APHA: American Public Health Association, RSB: Regulation & Supervision Bureau, NA: Not Applicable, NP: Not Provided
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Test Method Deviation	None
Test performed by Emp#	35
Report prepared by Emp#	22
The above test results are only applicable to the sample(s) referred above.	

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