

## TEST REPORT

Report No: QMTL/R-145331/2021

<b>CLIENT</b> : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates  <b>ATTN</b> : MR. JASMAN PINTO	Sample ID	QMTL/S-145331		
	Date Received	25 Jan 2021		
	Date(s) Tested	25 Jan 2021 - 27 Jan 2021		
	Date Reported	30 Jan 2021		
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, Abu Dhabi	Sampling Date/Time	25.01.2021 / 10:50 AM	
Sample Container	1x500ml PB	Sampling Point	Tray	
Sample Receipt Temp	4°C	Sample Onsite Temp	26.8°C	
Sample Appearance	Clear	On-site Treatment	NA	
Reference	NP			

### TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>MICROBIOLOGICAL PARAMETERS</b>				
Total Bacterial Count*	APHA 9215 B -23rd Edition	CFU/ml	10,000	250
Total Coliforms*	APHA 9222 B -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
E.coli*	APHA 9222 I -23rd Edition	CFU/100 ml	-	Zero

The Analysis results denoted by (\*) are part of the laboratory ENAS Accreditation to ISO/IEC 17025 : 2017.

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, NP: Not Provided, NA: Not Applicable, WI: Work Instruction
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Test method deviation	None
Test performed by Emp#	103 & 74
Report prepared by Emp#	72

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-145332/2021

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-145332
ATTN : MR. JASMAN PINTO		Date Received	25 Jan 2021
		Date(s) Tested	25 Jan 2021 - 27 Jan 2021
		Date Reported	30 Jan 2021
Sample Description	L4, Cooling Tower -2		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	Healthpoint Hospital, Abu Dhabi	Sampling Date/Time	25.01.2021 / 11:00 AM
Sample Container	1x500ml PB	Sampling Point	Tray
Sample Receipt Temp	4°C	Sample Onsite Temp	24.4°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

### TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>MICROBIOLOGICAL PARAMETERS</b>				
Total Bacterial Count*	APHA 9215 B -23rd Edition	CFU/ml	10,000	180
Total Coliforms*	APHA 9222 B -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
E.coli*	APHA 9222 I -23rd Edition	CFU/100 ml	-	Zero

The Analysis results denoted by (\*) are part of the laboratory ENAS Accreditation to ISO/IEC 17025 : 2017.

Remarks	The sample meets DM Water Systems quality (2010) specifications for Cooling Water Systems with respect to the above tests only.
Keywords	CFU: Colony Forming Unit, APHA: American Public Health Association, DM: Dubai Municipality, NP: Not Provided, NA: Not Applicable, WI: Work Instruction
Test method deviation	None
Test performed by Emp#	103 & 74
Report prepared by Emp#	72
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-145333/2021

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates	Sample ID	QMTL/S-145333	
	Date Received	25 Jan 2021	
	Date(s) Tested	25 Jan 2021 - 27 Jan 2021	
	ATTN : MR. JASMAN PINTO	Date Reported	30 Jan 2021
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, Abu Dhabi	Sampling Date/Time	25.01.2021 / 11:10 AM
Sample Container	1x500ml PB	Sampling Point	Tray
Sample Receipt Temp	4°C	Sample Onsite Temp	23°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

### TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>MICROBIOLOGICAL PARAMETERS</b>				
Total Bacterial Count*	APHA 9215 B -23rd Edition	CFU/ml	10,000	110
Total Coliforms*	APHA 9222 B -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
E.coli*	APHA 9222 I -23rd Edition	CFU/100 ml	-	Zero

The Analysis results denoted by (\*) are part of the laboratory ENAS Accreditation to ISO/IEC 17025 : 2017.

Remarks	The sample meets DM Water Systems quality (2010) specifications for Cooling Water Systems with respect to the above tests only.		
Keywords	CFU: Colony Forming Unit, APHA: American Public Health Association, DM: Dubai Municipality, NP: Not Provided, NA: Not Applicable, WI: Work Instruction		
Test method deviation	None		
Test performed by Emp#	103 & 74		
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-145334/2021

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates	Sample ID	QMTL/S-145334	
	Date Received	25 Jan 2021	
	Date(s) Tested	25 Jan 2021 - 27 Jan 2021	
	Date Reported	30 Jan 2021	
ATTN : MR. JASMAN PINTO			
Sample Description	L4, Cooling Tower -4		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	Healthpoint Hospital, Abu Dhabi	Sampling Date/Time	25.01.2021 / 11:20 AM
Sample Container	1x500ml PB	Sampling Point	Tray
Sample Receipt Temp	4°C	Sample Onsite Temp	22.9°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

### TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>MICROBIOLOGICAL PARAMETERS</b>				
Total Bacterial Count*	APHA 9215 B -23rd Edition	CFU/ml	10,000	150
Total Coliforms*	APHA 9222 B -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
E.coli*	APHA 9222 I -23rd Edition	CFU/100 ml	-	Zero

The Analysis results denoted by (\*) are part of the laboratory ENAS Accreditation to ISO/IEC 17025 : 2017.

Remarks	The sample meets DM Water Systems quality (2010) specifications for Cooling Water Systems with respect to the above tests only.
Keywords	CFU: Colony Forming Unit, APHA: American Public Health Association, DM: Dubai Municipality, NP: Not Provided, NA: Not Applicable, WI: Work Instruction
Test method deviation	None
Test performed by Emp#	103 & 74
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-145330/2021

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates	Sample ID	QMTL/S-145330	
	Date Received	25 Jan 2021	
	Date(s) Tested	25 Jan 2021 - 27 Jan 2021	
	ATTN : MR. JASMAN PINTO	Date Reported	30 Jan 2021
Sample Description	PI, Hydrotherapy Pool		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	Healthpoint Hospital, Abu Dhabi	Sampling Date/Time	25.01.2021 / 10:45 AM
Sample Container	Dipslide	Sampling Point	Pool
Sample Receipt Temp	4°C	Sample Onsite Temp	20.4°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

### TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>MICROBIOLOGICAL PARAMETERS</b>				
Total bacterial count(Dip slide )	Kit Method	CFU/ml	1000	<1
Remarks	The sample meets DM Public swimming pool safety guidelines(2019,Doc Ref.:DM-PH&SD-GU81-PSPS2) specifications for Pool Water with respect to the above tests only.			
Keywords	CFU: Colony Forming Unit, APHA: American Public Health Association, DM: Dubai Municipality, NP: Not Provided, NA: Not Applicable, WI: Work Instruction, Doc Ref.: Document Reference			
Test method deviation	None			
Test performed by Emp#	103 & 74			
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-145335/2021

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates	Sample ID	QMTL/S-145335	
	Date Received	25 Jan 2021	
	Date(s) Tested	25 Jan 2021 - 28 Jan 2021	
	ATTN : MR. JASMAN PINTO	Date Reported	01 Feb 2021
Sample Description	Copper - Silver Ionisation – P2 Water Tank # 05		
Sample Type	Water	Sampling Method	QMTL-SOP-128
Client Name/Project	NP	Sampled By	QMTL Representative
Location	Healthpoint Hospital, Abu Dhabi	Sampling Date/Time	25.01.2021/ 11:50 AM
Sample Container	1x500ml PB	Sampling Point	Tank
Sample Receipt Temp	18°C	Sample Onsite Temp	29.4°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

### TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>PHYSICAL PARAMETERS</b>				
Conductivity*	APHA 2510 B-23rd Edition	µs/cm	-	207.2@24.2°C
pH*	APHA 4500 H+B-23rd Edition	-	Min 7.0-Max 9.2	7.82@24.1°C
Total Dissolved Solids*	APHA 2540-C-23rd Edition	mg/L	Min 100-Max 600	134
<b>CHEMICAL PARAMETERS</b>				
Calcium Hardness*	APHA 3500 Ca B-23rd Edition	mg/L	Max 200	56.3
Chloride*	APHA 4500 Cl <sup>-</sup> B-23rd Edition	mg/L	Max 250	43.8
Total Hardness as (CaCO <sub>3</sub> )*	APHA 2340-C-23rd Edition	mg/L	Max 300	63.8
<b>METALS</b>				
Copper*	APHA 3120 B-23rd Edition	mg/L	Max 1.0	<0.05
Iron*	APHA 3120 B-23rd Edition	mg/L	Max 0.20	<0.05
Silver*	APHA 3120 B-23rd Edition	mg/L	-	<0.05

The Analysis results denoted by (\*) are part of the laboratory ENAS Accreditation to ISO/IEC 17025 : 2017.

Remarks	The sample meets Department of Energy Water Quality Regulations (5th Edition/Document No-DoE/PD/R01/003)Jan- 2021 requirements for potable water with respect to the above tests only.
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Keywords	pH: Potential Hydrogen, APHA: American Public Health Association, SOP: Standard Operating Procedure, NA: Not Applicable, NP: Not Provided.
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Test method deviation	None
Test performed by Emp#	13
Report prepared by Emp#	22

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## TEST REPORT

Report No: QMTL/R-145336/2021

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates	Sample ID	QMTL/S-145336		
	Date Received	25 Jan 2021		
	Date(s) Tested	25 Jan 2021 - 28 Jan 2021		
	Date Reported	01 Feb 2021		
ATTN : MR. JASMAN PINTO				
Sample Description	Copper - Silver Ionisation – P2 Water Tank # 06			
Sample Type	Water	Sampling Method	QMTL-SOP-128	
Client Name/Project	NP	Sampled By	QMTL Representative	
Location	Healthpoint Hospital, Abu Dhabi	Sampling Date/Time	25.01.2021/ 11:55 AM	
Sample Container	1x500ml PB	Sampling Point	Tank	
Sample Receipt Temp	18°C	Sample Onsite Temp	16.3°C	
Sample Appearance	Clear	On-site Treatment	NA	
Reference	NP			

### TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>PHYSICAL PARAMETERS</b>				
Conductivity*	APHA 2510 B-23rd Edition	µs/cm	-	209@24.2°C
pH*	APHA 4500 H+B-23rd Edition	-	Min 7.0-Max 9.2	7.80@24.1°C
Total Dissolved Solids*	APHA 2540-C-23rd Edition	mg/L	Min 100-Max 600	235
<b>CHEMICAL PARAMETERS</b>				
Calcium Hardness*	APHA 3500 Ca B-23rd Edition	mg/L	Max 200	58.2
Chloride*	APHA 4500 Cl <sup>-</sup> B-23rd Edition	mg/L	Max 250	44.3
Total Hardness as (CaCO <sub>3</sub> )*	APHA 2340-C-23rd Edition	mg/L	Max 300	65.7
<b>METALS</b>				
Copper*	APHA 3120 B-23rd Edition	mg/L	Max 1.0	<0.05
Iron*	APHA 3120 B-23rd Edition	mg/L	Max 0.20	<0.05
Silver*	APHA 3120 B-23rd Edition	mg/L	-	<0.05

The Analysis results denoted by (\*) are part of the laboratory ENAS Accreditation to ISO/IEC 17025 : 2017.

Remarks	The sample meets Department of Energy Water Quality Regulations (5th Edition/Document No-DoE/PD/R01/003)Jan- 2021 requirements for potable water with respect to the above tests only.
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Keywords	pH: Potential Hydrogen, APHA: American Public Health Association, SOP: Standard Operating Procedure, NA: Not Applicable, NP: Not Provided.
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Test method deviation	None
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Test performed by Emp#	13
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Report prepared by Emp#	22
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The above test results are only applicable to the sample(s) referred above.

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