

### TEST REPORT

Report No: QMTL/R-99872/2020

<b>CLIENT: CRYSTALLINE ENVIRONMENTAL SERVICES</b> P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017		Sample ID	QMTL/S-99872
		Date Received	05 Apr 2020
		Date(s) Tested	05 Apr 2020- 07 Apr 2020
		Date Reported	10 Apr 2020
<b>ATTN: Mr. JASMAN PINTO</b>			
Sample Description	<b>Chilled Water</b>		
Sample Type	Water	Sampling Method	NP
Client Name/Project	Tafawuq Facility Management	Sampled By	Client Representative
Location	Al Noor Tower, Al Reem Island	Sampling Date/Time	03.04.2020/ NP
Sample Container	1x500ml PB	Sampling Point	NP
Sample Receipt Temp	4°C	Sample On-site Temp	NP
Sample Appearance	Clear	On-site Treatment	NP
Reference	NP		

### TEST RESULTS

PARAMETERS	TEST METHODS (APHA 23 <sup>RD</sup> EDITION)	UNITS	SPECIFICATIONS	RESULTS
<b>MICROBIOLOGICAL ANALYSIS</b>				
Total Bacterial Count	APHA 9215 B	CFU/ml	10,000	36
Total Coliforms	APHA 9222 B	CFU/100ml	Zero	Zero
Faecal coliform	APHA 9222 D	CFU/100ml	Zero	Zero
Pseudomonas aeruginosa	APHA 9213 E	CFU/100ml	Zero	Zero
Escherichia coli	APHA 9222 H & I	CFU/100ml	Zero	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, NP: Not Provided
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Test Method Deviation	None
Test performed by Emp#	55 & 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**

The test Report shall not be reproduced (except in full) without the written approval of QMTL. When analysis is witnessed by us or carried out by sub contract labs, our responsibility is only to ensure that the analysis is conducted to standard test methods in accordance with industry accepted practice.

**END OF REPORT**



## CONSULTING SERVICE REPORT

<b>CUSTOMER: TAFAWUQ FACILITIES MANAGEMENT</b>	<b>To: M/S TAFAWUQ FACILITIES MNGEMENT</b>	<b>DATE: 02-04-2020</b>
<b>SITE: AL NOOR TOWER</b>	<b>Copy: TAFAWUQ FM</b>	<b>LOCATION: CHILLER PLANT ROOM</b>

### CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	PRIMARY TOWER A		
pH	8.0 - 10.0	9.89		
Conductivity, $\mu\text{s}/\text{cm}$	Max 2000	1348		
TDS, ppm	--	962		
Alkalinity, ppm as $\text{CaCO}_3$	--			
Total Hardness, ppm as $\text{CaCO}_3$	--			
Calcium Hardness, ppm as $\text{CaCO}_3$	--			
Chloride, ppm as $\text{Cl}^-$	--			
Iron, ppm as Fe	0 - 1.0	0.14		

#### Treatment Residuals

Nitrite, ppm	800 - 1000	860		
Suspended Solids				
Phosphate/Phosphonate				
Free Residual Chlorine as Cl	--			
Cynauric Acid				

*All test results expressed in parts per million (ppm) as  $\text{CaCO}_3$  except pH and conductivity ( $\mu\text{mhos}$ ).*

#### COMMENTS:

#### ACTION:

The pH levels are satisfactory $\Rightarrow$	No action recommended.
Dissolved iron levels are Satisfactory $\Rightarrow$	No action recommended.
Corrosion Inhibitor levels are Satisfactory $\Rightarrow$	No action recommended.

#### INVENTORY LEVELS

#### DOSAGE SCHEDULE

Chemical	Quantity	Chemical	Present Dosage	Revised Dosage
Crystal 5547C			--	
Crystal 9040			--	
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Service Engineer:	MURUGARAJ	Client:	M/S: TAFAWUQ
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Signature :		Signature:	
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