

## TEST REPORT

Report No: QMTL/R-102341/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-102341
ATTN : MR. JASMAN PINTO		Date Received	03 May 2020
		Date(s) Tested	03 May 2020 - 05 May 2020
		Date Reported	07 May 2020
Sample Description	Main Pool		
Sample Type	Water	Sampling Method	NP
Client Name/Project	NP	Sampled By	Client Representative
Location	SAS AL NAKHEEL	Sampling Date/Time	03.05.2020/ NP
Sample Container	1X500ml PB	Sampling Point	Pool
Sample Receipt Temp	32.5°C	Sample Onsite Temp	NP
Sample Appearance	Clear	On-site Treatment	NP
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	Zero
Pseudomonas aeruginosa	APHA 9213 E (23rd Edition)	CFU/100 ml	Zero	Zero
Total Bacterial Count	APHA 9215 B (23rd Edition)	CFU/ml	1000	<1
Total Coliforms	APHA 9222 B (23rd Edition)	CFU/100 ml	Zero	Zero
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, 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



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END OF REPORT

## TEST REPORT

Report No: QMTL/R-102391/2020

<b>CLIENT: CRYSTALLINE ENVIRONMENTAL SERVICES</b> P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017		Sample ID Date Received Date(s) Tested Date Reported	QMTL/S-102391 03 May 2020 03 May 2020- 13 May 2020 15 May 2020
<b>ATTN: Mr. JASMAN PINTO</b>			
Sample Description	Main Swimming Pool		
Sample Type	Water	Sampling Method	NA
Client Name/Project	NP	Sampled By	Client Representative
Location	SAS AL NAKHEEL	Sampling Date/Time	03.05.2020/ NP
Sample Container	1x1L PB	Sampling Point	Pool
Sample Receipt Temp	32.5°C	Sample On-site Temp	NP
Sample Appearance	Clear	On-site Treatment	NP
Reference	NP		

## TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	LIMITS	RESULTS
<b>LEGIONELLA ANALYSIS</b>				
Legionella	ISO 11731:2017 E (Matrix A, Procedure 5)	CFU/litre	<1	<1
<b>IDENTIFICATION</b>				
Legionella Species	ISO 11731:2017 E	-	-	<b>Absent</b>
Legionella pneumophila sero group 1	ISO 11731:2017 E	-	-	<b>Absent</b>
Legionella pneumophila sero group 2-15	ISO 11731:2017 E	-	-	<b>Absent</b>

Remarks	The sample meets DM Water Systems quality (2010) specifications for Pool Water with respect to the above tests only
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Keywords	CFU: Colony Forming Unit, ISO: International Organization for Standardization, DM: Dubai Municipality, NP: Not Provided, NA: Not Applicable, BCYE: Buffered Charcoal Yeast Extract Agar Culture Media :- BCYE Agar
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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

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**END OF REPORT**

## SWIMMING POOL - WATER ANALYSIS REPORT

<b>Client Name:</b> TAFAWUQ FACILITY MANAGEMENT, ABU DHABI			
<b>Site Name:</b>	SAS AL NAKHEEL VILLAGE	<b>Visit Date:</b>	03-05-2020
<b>Sampled By:</b>	Crystalline Rep.	<b>Last Visit:</b>	04-04-2020
<b>Source of Sample</b>	Swimming Pool	<b>Sample Point</b>	Main Swimming Pool

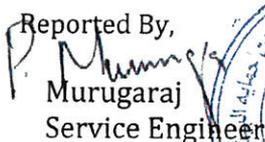
### TEST RESULT

No	Parameter	Control limits	Test Results
1	pH at 25°C	7.2 - 7.6	7.51
2	Conductivity at 25°C, $\mu\text{s}/\text{cm}$	---	364
3	TDS, ppm	Max 1500	236
4	Alkalinity	80 - 120	87
5	Calcium Hardness	200 - 500	216
6	Residual Chlorine	1.0 - 3.0	1.21
7	Cyanuric Acid	20 - 60	24
8	Dip slide	$<10^3$	ND

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

### COMMENTS AND RECOMMENDATIONS

- All Parameters are within control limit - No action Recommended.

Reported By,  
  
 Murugaraj  
 Service Engineer



### TEST REPORT

Report No: QMTL/R-102342/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-102342
ATTN : MR. JASMAN PINTO		Date Received	03 May 2020
		Date(s) Tested	03 May 2020 - 05 May 2020
		Date Reported	07 May 2020
Sample Description	Kids Pool		
Sample Type	Water	Sampling Method	NP
Client Name/Project	NP	Sampled By	Client Representative
Location	SAS AL NAKHEEL	Sampling Date/Time	03.05.2020/ NP
Sample Container	1 X500ml PB	Sampling Point	Pool
Sample Receipt Temp	32.5°C	Sample Onsite Temp	NP
Sample Appearance	Clear	On-site Treatment	NP
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	Zero
Pseudomonas aeruginosa	APHA 9213 E (23rd Edition)	CFU/100 ml	Zero	Zero
Total Bacterial Count	APHA 9215 B (23rd Edition)	CFU/ml	1000	2
Total Coliforms	APHA 9222 B (23rd Edition)	CFU/100 ml	Zero	Zero
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, 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



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END OF REPORT

## TEST REPORT

Report No: QMTL/R-102392/2020

<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-102392
		Date Received	03 May 2020
		Date(s) Tested	03 May 2020- 13 May 2020
		Date Reported	15 May 2020
Sample Description	<b>Kids Pool</b>		
Sample Type	Water	Sampling Method	NA
Client Name/Project	NP	Sampled By	Client Representative
Location	SAS AL NAKHEEL	Sampling Date/Time	03.05.2020/ NP
Sample Container	1x1L PB	Sampling Point	Pool
Sample Receipt Temp	32.5°C	Sample On-site Temp	NP
Sample Appearance	Clear	On-site Treatment	NP
Reference	NP		

### TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	LIMITS	RESULTS
<b>LEGIONELLA ANALYSIS</b>				
Legionella	ISO 11731:2017 E (Matrix A, Procedure 5)	CFU/litre	<1	<1
<b>IDENTIFICATION</b>				
Legionella Species	ISO 11731:2017 E	-	-	<b>Absent</b>
Legionella pneumophila sero group 1	ISO 11731:2017 E	-	-	<b>Absent</b>
Legionella pneumophila sero group 2-15	ISO 11731:2017 E	-	-	<b>Absent</b>

Remarks	The sample meets DM Water Systems quality (2010) specifications for Pool Water with respect to the above tests only
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Keywords	CFU: Colony Forming Unit, ISO: International Organization for Standardization, DM: Dubai Municipality, NP: Not Provided, NA: Not Applicable, BCYE: Buffered Charcoal Yeast Extract Agar, Culture Media :- BCYE Agar
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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**

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**END OF REPORT**

## SWIMMING POOL - WATER ANALYSIS REPORT

<b>Client Name:</b> TAFAWUQ FACILITY MANAGEMENT, ABU DHABI			
<b>Site Name:</b>	SAS AL NAKHEEL VILLAGE	<b>Visit Date:</b>	03-05-2020
<b>Sampled By:</b>	Crystalline Rep.	<b>Last Visit:</b>	04-04-2020
<b>Source of Sample</b>	Swimming Pool	<b>Sample Point</b>	Kids Swimming Pool

TEST RESULT			
No	Parameter	Control limits	Test Results
1	pH at 25°C	7.2 - 7.6	7.53
2	Conductivity at 25°C, $\mu\text{s}/\text{cm}$	---	423
3	TDS, ppm	Max 1500	274
4	Alkalinity	80 - 120	90
5	Calcium Hardness	200 - 500	214
6	Residual Chlorine	1.0 - 3.0	1.09
7	Cyanuric Acid	20 - 60	24
8	Dip slide	$<10^3$	ND

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

COMMENTS AND RECOMMENDATIONS
<ul style="list-style-type: none"> <li>All Parameters are within control limit - No action Recommended.</li> </ul>
<ul style="list-style-type: none"> <li></li> </ul>

Reported By,

*P. Murugakar*  
Murugakar  
Service Engineer

