



**Microbiology Test Report**

**Customer Details**

**Crystalline Cleaning & Environmental Services**

P.O.Box: 131463 Warehouse no: 84, M-45. Mussafah, Abu Dhabi, UAE.

Report No. WA-R-L-2008-16018



Request No. : WA-Q-L-2008-02378

Sample No. : WA-S-L-2008-15497

Sampling Date	: 29/07/2020	Report Date.	: 03/08/2020
Analysis Start Date.	: 29/07/2020	Analysis End Date.	: 31/07/2020
Sample Location.	: C2 Building - Marina Tower	Sampled By	: vijesh
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 09181	Sampling Method	: APHA 9060 A&B
Temperature °C	: 31°C	Site Observation	: Clear
Sampling Container	: Sterile Glass Bottle	Source of Sample	: Jacuzzi Water
Sampling Point	: Jacuzzi	Preservation	: 4-8°C
Sample Description	: Pool Water		

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B,H& I 23rd Ed. 2017	CFU/100ml	Not Detected	--
Faecal Coliforms	APHA 9222 D 23rd Ed. 2017	CFU/100ml	Not Detected	Zero/100ml
Heterotrophic plate count	APHA 9215 B 23rd Ed. 2017	CFU/ml	Not Detected	1000CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250ml	Not Detected	Zero/100ml
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100ml	Not Detected	Zero/100ml

Note : Not Detected=<1CFU

Limit based on: Guide to the Executive Regulations of Law No.(2) for the year of 2012 (Swimming Pool), Issued by the Head of Urban Planning and Municipalities No.(3) for the year 2018, Page No.3.

**Remarks :The tested results of the sample are found to be satisfactory within the specified limits.**

Analyst	Reviewed By	Method Variation
HS	SM	None

Key Words :CFU-Colony Forming Unit; APHA-American Public Health Association; CCFRA-Campden Chorleywood Food Research Association.

**Signed for and on behalf of Wimpey Laboratories**

**Dr. Suresh Murugan Ph.D**

Senior Microbiologist



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**Microbiology Test Report**

**Customer Details**

**Crystalline Cleaning & Environmental Services**

P.O.Box: 131463 Warehouse no: 84, M-45. Mussafah, Abu Dhabi, UAE.

Report No. WA-R-L-2008-16016



Request No. : WA-Q-L-2008-02378

Sample No. : WA-S-L-2008-15494

Sampling Date	: 29/07/2020	Report Date.	: 03/08/2020
Analysis Start Date.	: 29/07/2020	Analysis End Date.	: 31/07/2020
Sample Location.	: C2 Building - Marina Tower	Sampled By	: vijesh
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 09181	Sampling Method	: APHA 9060 A&B
Temperature °C	: 30°C	Site Observation	: Clear
Sampling Container	: Sterile Glass Bottle	Source of Sample	: Swimming Pool Water
Sampling Point	: Pool	Preservation	: 4-8°C
Sample Description	: Pool Water		

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B,H& I 23rd Ed. 2017	CFU/100ml	Not Detected	--
Faecal Coliforms	APHA 9222 D 23rd Ed. 2017	CFU/100ml	Not Detected	Zero/100ml
Heterotrophic plate count	APHA 9215 B 23rd Ed. 2017	CFU/ml	Not Detected	1000CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250ml	Not Detected	Zero/100ml
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100ml	Not Detected	Zero/100ml

Note : Not Detected=<1CFU

Limit based on: Guide to the Executive Regulations of Law No.(2) for the year of 2012 (Swimming Pool), Issued by the Head of Urban Planning and Municipalities No.(3) for the year 2018, Page No.3.

**Remarks :The tested results of the sample are found to be satisfactory within the specified limits.**

Analyst	Reviewed By	Method Variation
HS	SM	None

Key Words :CFU-Colony Forming Unit; APHA-American Public Health Association; CCFRA-Campden Chorleywood Food Research Association.

**Signed for and on behalf of Wimpey Laboratories**



**Dr. Suresh Murugan Ph.D**

Senior Microbiologist

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**Legionella Test Report**

**Customer Details**

**Crystalline Cleaning & Environmental Services**

P.O.Box: 131463 Warehouse no: 84, M-45. Mussafah, Abu Dhabi, UAE.

Report No. WA-R-L-2008-16017



Request No. : WA-Q-L-2008-02378

Sample No. : WA-S-L-2008-15495

Sampling Date	: 29/07/2020	Report Date.	: 09/08/2020
Analysis Start Date.	: 29/07/2020	Analysis End Date.	: 08/08/2020
Sample Location.	: C2 Building - Marina Tower	Sampled By	: vijesh
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 09181	Sampling Method	: BS 7592
Temperature °C	: 30°C	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Swimming Pool Water
Sampling Point	: Pool	Preservation	: 10°C
Sample Description	: Pool Water		

Parameters	Test Methods	Units	Results	Specification
Legionella	ISO 11731: 2017	CFU/L	Not Detected	<1CFU/L

Note : Not Detected=<1CFU/L

Procedure: WSOP-MB-0051 Direct Placing of Membrane on BCYE+L-Cysteine/Membrane Filter followed by Washing Procedure in Funnel.

Limit based on DM.Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

**Remarks :The tested result of the sample is found to be satisfactory within the specified limits.**

Analyst	Reviewed By	Method Variation
HS	SM	

Key Words :CFU-Colony Forming Unit; BS-British Standard; ISO-International Organization for Standardization.

**Signed for and on behalf of Wimpey Laboratories**

**Dr. Suresh Murugan Ph.D**

Senior Microbiologist



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**Legionella Test Report**

**Customer Details**

**Crystalline Cleaning & Environmental Services**

P.O.Box: 131463 Warehouse no: 84, M-45. Mussafah, Abu Dhabi, UAE.

Report No. WA-R-L-2008-16020



Request No. : WA-Q-L-2008-02378

Sample No. : WA-S-L-2008-15498

Sampling Date	: 29/07/2020	Report Date.	: 09/08/2020
Analysis Start Date.	: 29/07/2020	Analysis End Date.	: 08/08/2020
Sample Location.	: C2 Building - Marina Tower	Sampled By	: vijesh
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 09181	Sampling Method	: BS 7592
Temperature °C	: 31°C	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Jacuzzi Water
Sampling Point	: Jacuzzi	Preservation	: 10°C
Sample Description	: Pool Water		

Parameters	Test Methods	Units	Results	Specification
Legionella	ISO 11731: 2017	CFU/L	Not Detected	<1CFU/L

Note : Limit of Detection=<1CFU/L

Procedure: WSOP-MB-0051 Direct Placing of Membrane on BCYE+L-Cysteine/Membrane Filter Followed by Washing Procedure in Funnel.

Limit based on DM. Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

**Remarks :The tested result of the sample is found to be satisfactory within the specified limits.**

Analyst	Reviewed By	Method Variation
HS	SM	None

Key Words :CFU-Colony Forming Unit; BS-British Standard; ISO-International Organization for Standardization.

**Signed for and on behalf of Wimpey Laboratories**

**Dr. Suresh Murugan Ph.D**

Senior Microbiologist



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## SWIMMING POOL - WATER ANALYSIS REPORT

<b>Client Name:</b> TAFAWUQ FACILITY MANAGEMENT, ABU DHABI			
<b>Site Name:</b>	Marina Bay C2 & C3	<b>Visit Date:</b>	29-07-2019
<b>Sampled By:</b>	Crystalline Rep.	<b>Sample Point</b>	Jacuzzi -Level 06
<b>Source of Sample</b>	Swimming Pool		

### TEST RESULT

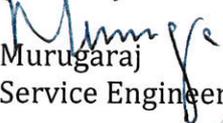
No	Parameter	Control limits	Test Results
1	pH at 25°C	7.2 - 7.6	7.46
2	Conductivity at 25°C, µs/cm	---	287
3	TDS, ppm	Max 1500	186
4	Alkalinity	80 - 120	86
5	Calcium Hardness	200 - 500	213
6	Residual Chlorine	1.0 - 3.0	1.21
7	Cyanuric Acid	20 - 60	28
8	Dip slide	<10 <sup>3</sup>	ND

\*\*\* All test results expressed in parts per million (ppm) as CaCO<sub>3</sub> except pH and conductivity (µmhos).

### COMMENTS AND RECOMMENDATIONS

- pH levels are satisfactory – No action recommended
- Alkalinity & Cyanuric acid levels are satisfactory – No action recommended

Reported By,

  
Murugaraj  
Service Engineer



## SWIMMING POOL - WATER ANALYSIS REPORT

<b>Client Name:</b> TAFAWUQ FACILITY MANAGEMENT, ABU DHABI			
<b>Site Name:</b>	Marina Bay C2 & C3	<b>Visit Date:</b>	29-07-2019
<b>Sampled By:</b>	Crystalline Rep.	<b>Sample Point</b>	C2 & C3 Swimming Pool - Level 06
<b>Source of Sample</b>	Swimming Pool		

### TEST RESULT

No	Parameter	Control limits	Test Results
1	pH at 25°C	7.2 - 7.6	7.36
2	Conductivity at 25°C, µs/cm	---	308
3	TDS, ppm	Max 1500	200
4	Alkalinity	80 - 120	89
5	Calcium Hardness	200 - 500	221
6	Residual Chlorine	1.0 - 3.0	1.27
7	Cyanuric Acid	20 - 60	26
8	Dip slide	<10 <sup>3</sup>	ND

\*\*\* All test results expressed in parts per million (ppm) as CaCO<sub>3</sub> except pH and conductivity (µmhos).

### COMMENTS AND RECOMMENDATIONS

- pH levels are satisfactory - No action recommended
- Alkalinity & Cyanuric acid levels are satisfactory - No action recommended

Reported By,

  
Murugaraj  
Service Engineer

