



Microbiology Test Report

Report No. WA-R-L-2005-9729

Customer Details

Crystalline Environmental Services



Request No.	: WA-Q-L-2005-1521	Sample No.	: WA-S-L-2005-9517
Sampling Date/time	: 21/5/2020 , 12:31	Report Date.	: 26/5/2020
Analysis Start Date.	: 21/5/2020	Analysis End Date.	: 24/5/2020
Sample Location.	: City of Lights - Al Reem Island Building: C10A	Sampled By	: Shoukth
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 0825	Sampling Method	: APHA 9060 A & B
Temperature °C	: 25.01	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Jacuzzi Water
Sampling Point	: Not Given	Sample Description	: Water

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

Note : Not Detected=<1CFU

Limits based on RSB Water Quality Regulation 2014. Schedule 1. Table F For Microbiological Parameters.

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



Test results relate only to the samples tested.

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Legionella Test Report

Customer Details

Report No. WA-R-L-2005-9734

Crystalline Environmental Services



Request No.	: WA-Q-L-2005-1521	Sample No.	: WA-S-L-2005-9522
Sampling Date/time	: 21/5/2020 , 12:31	Report Date.	: 31/5/2020
Analysis Start Date.	: 21/5/2020	Analysis End Date.	: 31/5/2020
Sample Location.	: City of Lights - Al Reem Island Building: C10A	Sampled By	: Shoukth
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 0825	Sampling Method	: BS 7592
Temperature °C	: 25.01	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Jacuzzi Water
Sampling Point	: Not Given	Sample Description	: 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

Client Name: TAFAWUQ FACILITY MANAGEMENT, ABU DHABI			
Site Name:	Omega C10a	Visit Date:	21-05-2019
Sampled By:	Crystalline Rep.	Sample Point	Jacuzzi - 08 th Floor
Source of Sample	Swimming Pool		

TEST RESULT

No	Parameter	Control limits	Test Results
1	pH at 25°C	7.2 - 7.6	7.37
2	Conductivity at 25°C, µs/cm	---	368
3	TDS, ppm	Max 1500	239
4	Alkalinity	80 - 120	84
5	Calcium Hardness	200 - 500	205
6	Residual Chlorine	1.0 - 3.0	1.13
7	Cyanuric Acid	20 - 60	23
8	Dip slide	<10 ³	ND

*** All test results expressed in parts per million (ppm) as CaCO₃ 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,

P. Murugara
Murugara
Service Engineer





Microbiology Test Report

Customer Details

Report No. WA-R-L-2005-9728

Crystalline Environmental Services



Request No.	: WA-Q-L-2005-1521	Sample No.	: WA-S-L-2005-9516
Sampling Date/time	: 21/5/2020 , 12:31	Report Date.	: 26/6/2020
Analysis Start Date.	: 21/5/2020	Analysis End Date.	: 24/5/2020
Sample Location.	: City of Lights - Al Reem Island Building: C10A	Sampled By	: Shoukth
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 0825	Sampling Method	: APHA 9060 A & B
Temperature °C	: 28.11	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Swimming Pool Water
Sampling Point	: Not Given	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= \leq 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.



Microbiology Test Report

Report No. : WA-R-L-2005-9728

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 Environmental Services

Report No. WA-R-L-2005-9733



Request No.	: WA-Q-L-2005-1521	Sample No.	: WA-S-L-2005-9521
Sampling Date/time	: 21/5/2020 , 12:31	Report Date.	: 31/5/2020
Analysis Start Date.	: 21/5/2020	Analysis End Date.	: 31/5/2020
Sample Location.	: City of Lights - Al Reem Island Building: C10A	Sampled By	: Shoukth
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 0825	Sampling Method	: BS 7592
Temperature °C	: 28.11	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Swimming Pool Water
Sampling Point	: Not Given	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	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

Client Name: TAFAWUQ FACILITY MANAGEMENT, ABU DHABI			
Site Name:	Omega C10a	Visit Date:	21-05-2019
Sampled By:	Crystalline Rep.	Sample Point	Main Swimming Pool - 08 th Floor
Source of Sample	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	---	365
3	TDS, ppm	Max 1500	237
4	Alkalinity	80 - 120	94
5	Calcium Hardness	200 - 500	228
6	Residual Chlorine	1.0 - 3.0	1.21
7	Cyanuric Acid	20 - 60	26
8	Dip slide	<10 ³	ND

*** All test results expressed in parts per million (ppm) as CaCO₃ 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,

Murugara
Murugara
Service Engineer

