



**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-2102-34402



Request No. : WA-Q-L-2102-04873 Received Date : 03/02/2021 Sample No. : WA-S-L-2102-33948

Sampling Date	: 03/02/2021	Report Date.	: 07/02/2021
Analysis Start Date.	: 03/02/2021	Analysis End Date.	: 06/02/2021
Sample Location.	: Zayed University	Sampled By	: Client Representative
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 3810	Sampling Method	: Not Applicable
Temperature °C	: Not Applicable	Site Observation	: Not Applicable
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Female Side M3
Sampling Point	: Water Fountain	Preservation	: Not Applicable
Sample Description	: Water	Samplerrefno	: 8

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	-
Heterotrophic plate count	APHA 9215 B 23rd Ed. 2017	CFU/ml	Not Detected	500CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250ml	Not Detected	-
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100ml	Not Detected	-

Note : Not Detected=<1CFU

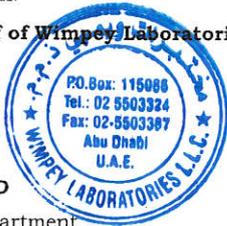
Limit based on DM.Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

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

Analyst	Reviewed By	Method Variation
SN	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**

Head of Microbiology Department

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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-2102-34401



Request No. : WA-Q-L-2102-04873 Received Date : 03/02/2021 Sample No. : WA-S-L-2102-33947

Sampling Date	: 03/02/2021	Report Date.	: 07/02/2021
Analysis Start Date.	: 03/02/2021	Analysis End Date.	: 06/02/2021
Sample Location.	: Zayed University	Sampled By	: Client Representative
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 3810	Sampling Method	: Not Applicable
Temperature °C	: Not Applicable	Site Observation	: Not Applicable
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Female Side M4
Sampling Point	: Water Fountain	Preservation	: Not Applicable
Sample Description	: Water	Samplerrefno	: 7

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	-
Heterotrophic plate count	APHA 9215 B 23rd Ed. 2017	CFU/ml	Not Detected	500CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250ml	Not Detected	-
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100ml	Not Detected	-

Note : Not Detected=<1CFU

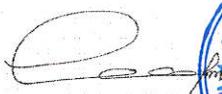
Limit based on DM.Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

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

Analyst	Reviewed By	Method Variation
SN	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**  
Head of Microbiology Department

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**Microbiology Test Report**

**Customer Details**

Report No. WA-R-L-2102-34400

**Crystalline Cleaning & Environmental Services**

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



Request No. : WA-Q-L-2102-04873 Received Date : 03/02/2021 Sample No. : WA-S-L-2102-33946

Sampling Date	: 03/02/2021	Report Date.	: 07/02/2021
Analysis Start Date.	: 03/02/2021	Analysis End Date.	: 06/02/2021
Sample Location.	: Zayed University	Sampled By	: Client Representative
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 3810	Sampling Method	: Not Applicable
Temperature °C	: Not Applicable	Site Observation	: Not Applicable
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Female Side MF2
Sampling Point	: Water Fountain	Preservation	: Not Applicable
Sample Description	: Water	Samplerrefno	: 6

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	-
Heterotrophic plate count	APHA 9215 B 23rd Ed. 2017	CFU/ml	Not Detected	500CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250ml	Not Detected	-
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100ml	Not Detected	-

Note : Not Detected=<1CFU

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

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

Analyst	Reviewed By	Method Variation
SN	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**

PO.Box: 115086  
Tel: 02 5503324  
Fax: 02-5503387  
Abu Dhabi  
U.A.E.

**Dr. Suresh Murugan**  
Head of Microbiology Department

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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-2102-34399



Request No. : WA-Q-L-2102-04873 Received Date : 03/02/2021 Sample No. : WA-S-L-2102-33945

Sampling Date	: 03/02/2021	Report Date.	: 07/02/2021
Analysis Start Date.	: 03/02/2021	Analysis End Date.	: 06/02/2021
Sample Location.	: Zayed University	Sampled By	: Client Representative
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 3810	Sampling Method	: Not Applicable
Temperature °C	: Not Applicable	Site Observation	: Not Applicable
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Female Side MF3
Sampling Point	: Water Fountain	Preservation	: Not Applicable
Sample Description	: Water	Samplerrefno	: 5

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	-
Heterotrophic plate count	APHA 9215 B 23rd Ed. 2017	CFU/ml	Not Detected	500CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250ml	Not Detected	-
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100ml	Not Detected	-

Note : Not Detected= $\leq$ 1CFU

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

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

Analyst	Reviewed By	Method Variation
SN	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**  
Head of Microbiology Department

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**Microbiology Test Report**

**Customer Details**

**Crystalline Cleaning & Environmental Services**

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

Report No. WA-R-L-2102-34398



Request No. : WA-Q-L-2102-04873 Received Date : 03/02/2021 Sample No. : WA-S-L-2102-33944

Sampling Date	: 03/02/2021	Report Date.	: 07/02/2021
Analysis Start Date.	: 03/02/2021	Analysis End Date.	: 06/02/2021
Sample Location.	: Zayed University	Sampled By	: Client Representative
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 3810	Sampling Method	: Not Applicable
Temperature °C	: Not Applicable	Site Observation	: Not Applicable
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Female Side FF4
Sampling Point	: Water Fountain	Preservation	: Not Applicable
Sample Description	: Water	Samplerrefno	: 4

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	-
Heterotrophic plate count	APHA 9215 B 23rd Ed. 2017	CFU/ml	Not Detected	500CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250ml	Not Detected	-
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100ml	Not Detected	-

Note : Not Detected=<1CFU

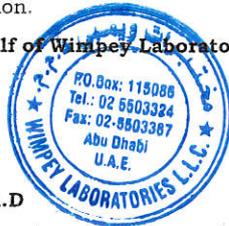
Limit based on DM.Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

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

Analyst	Reviewed By	Method Variation
SN	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**

Head of Microbiology Department

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**Microbiology Test Report**

**Customer Details**

Report No. WA-R-L-2102-34397

**Crystalline Cleaning & Environmental Services**

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



Request No. : WA-Q-L-2102-04873

Received Date : 03/02/2021

Sample No. : WA-S-L-2102-33943

Sampling Date	: 03/02/2021	Report Date.	: 07/02/2021
Analysis Start Date.	: 03/02/2021	Analysis End Date.	: 06/02/2021
Sample Location.	: Zayed University	Sampled By	: Client Representative
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 3810	Sampling Method	: Not Applicable
Temperature °C	: Not Applicable	Site Observation	: Not Applicable
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Female Side FF3
Sampling Point	: Water Fountain	Preservation	: Not Applicable
Sample Description	: Water	Samplerrefno	: 3

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	-
Heterotrophic plate count	APHA 9215 B 23rd Ed. 2017	CFU/ml	Not Detected	500CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250ml	Not Detected	-
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100ml	Not Detected	-

Note : Not Detected=<1CFU

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

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

Analyst	Reviewed By	Method Variation
SN	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**

Head of Microbiology Department

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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-2102-34396



Request No. : WA-Q-L-2102-04873 Received Date : 03/02/2021 Sample No. : WA-S-L-2102-33942

Sampling Date	: 03/02/2021	Report Date.	: 07/02/2021
Analysis Start Date.	: 03/02/2021	Analysis End Date.	: 06/02/2021
Sample Location.	: Zayed University	Sampled By	: Client Representative
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 3810	Sampling Method	: Not Applicable
Temperature °C	: Not Applicable	Site Observation	: Not Applicable
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Female Side F3
Sampling Point	: Water Fountain	Preservation	: Not Applicable
Sample Description	: Water	Samplerrefno	: 2

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	-
Heterotrophic plate count	APHA 9215 B 23rd Ed. 2017	CFU/ml	Not Detected	500CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250ml	Not Detected	-
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100ml	Not Detected	-

Note : Not Detected=<1CFU

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

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

Analyst	Reviewed By	Method Variation
SN	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**

Head of Microbiology Department

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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-2102-34395



Request No. : WA-Q-L-2102-04873 Received Date : 03/02/2021 Sample No. : WA-S-L-2102-33941

Sampling Date	: 03/02/2021	Report Date.	: 07/02/2021
Analysis Start Date.	: 03/02/2021	Analysis End Date.	: 06/02/2021
Sample Location.	: Zayed University	Sampled By	: Client Representative
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 3810	Sampling Method	: Not Applicable
Temperature °C	: Not Applicable	Site Observation	: Not Applicable
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Female Side F4
Sampling Point	: Water Fountain	Preservation	: Not Applicable
Sample Description	: Water	Samplerrefno	: 1

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	-
Heterotrophic plate count	APHA 9215 B 23rd Ed. 2017	CFU/ml	Not Detected	500CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250ml	Not Detected	-
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100ml	Not Detected	-

Note : Not Detected=<1CFU

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

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

Analyst	Reviewed By	Method Variation
SN	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**

Head of Microbiology Department

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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-2102-34394



Request No. : WA-Q-L-2102-04873

Received Date : 03/02/2021

Sample No. : WA-S-L-2102-33940

Sampling Date	: 03/02/2021	Report Date.	: 13/02/2021
Analysis Start Date.	: 03/02/2021	Analysis End Date.	: 13/02/2021
Sample Location.	: Zayed University	Sampled By	: Client Representative
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 3810	Sampling Method	: Not Applicable
Temperature °C	: Not Applicable	Site Observation	: Not Applicable
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Female Side M3
Sampling Point	: Water Fountain	Preservation	: Not Applicable
Sample Description	: Water	Samplerrefno	: 8

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.

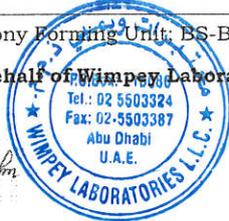
Limit based on DM.Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

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

Analyst	Reviewed By	Method Variation
SN	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**

Head of Microbiology Department

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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-2102-34393



Request No. : WA-Q-L-2102-04873

Received Date : 03/02/2021

Sample No. : WA-S-L-2102-33939

Sampling Date	: 03/02/2021	Report Date.	: 13/02/2021
Analysis Start Date.	: 03/02/2021	Analysis End Date.	: 13/02/2021
Sample Location.	: Zayed University	Sampled By	: Client Representative
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 3810	Sampling Method	: Not Applicable
Temperature °C	: Not Applicable	Site Observation	: Not Applicable
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Female Side M4
Sampling Point	: Water Fountain	Preservation	: Not Applicable
Sample Description	: Water	Samplerrefno	: 7

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.

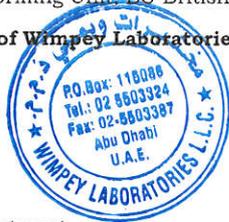
Limit based on DM.Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

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

Analyst	Reviewed By	Method Variation
SN	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**

Head of Microbiology Department

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**Legionella Test Report**

**Customer Details**

Report No. WA-R-L-2102-34392

**Crystalline Cleaning & Environmental Services**

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



Request No. : WA-Q-L-2102-04873 Received Date : 03/02/2021 Sample No. : WA-S-L-2102-33938

Sampling Date	: 03/02/2021	Report Date.	: 13/02/2021
Analysis Start Date.	: 03/02/2021	Analysis End Date.	: 13/02/2021
Sample Location.	: Zayed University	Sampled By	: Client Representative
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 3810	Sampling Method	: Not Applicable
Temperature °C	: Not Applicable	Site Observation	: Not Applicable
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Female Side MF2
Sampling Point	: Water Fountain	Preservation	: Not Applicable
Sample Description	: Water	Samplerrefno	: 6

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
SN	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**

Head of Microbiology Department

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**Legionella Test Report**

**Customer Details**

Report No. WA-R-L-2102-34391

**Crystalline Cleaning & Environmental Services**

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



Request No. : WA-Q-L-2102-04873 Received Date : 03/02/2021 Sample No. : WA-S-L-2102-33937

Sampling Date	: 03/02/2021	Report Date.	: 13/02/2021
Analysis Start Date.	: 03/02/2021	Analysis End Date.	: 13/02/2021
Sample Location.	: Zayed University	Sampled By	: Client Representative
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 3810	Sampling Method	: Not Applicable
Temperature °C	: Not Applicable	Site Observation	: Not Applicable
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Female Side MF3
Sampling Point	: Water Fountain	Preservation	: Not Applicable
Sample Description	: Water	Samplerrefno	: 5

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
SN	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**

Head of Microbiology Department

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- End of Text -



**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-2102-34390



Request No. : WA-Q-L-2102-04873 Received Date : 03/02/2021 Sample No. : WA-S-L-2102-33936

Sampling Date	: 03/02/2021	Report Date.	: 13/02/2021
Analysis Start Date.	: 03/02/2021	Analysis End Date.	: 13/02/2021
Sample Location.	: Zayed University	Sampled By	: Client Representative
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 3810	Sampling Method	: Not Applicable
Temperature °C	: Not Applicable	Site Observation	: Not Applicable
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Female Side FF4
Sampling Point	: Water Fountain	Preservation	: Not Applicable
Sample Description	: Water	Samplerrefno	: 4

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
SN	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**

Head of Microbiology Department

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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-2102-34389



Request No. : WA-Q-L-2102-04873 Received Date : 03/02/2021 Sample No. : WA-S-L-2102-33935

Sampling Date	: 03/02/2021	Report Date.	: 13/02/2021
Analysis Start Date.	: 03/02/2021	Analysis End Date.	: 13/02/2021
Sample Location.	: Zayed University	Sampled By	: Client Representative
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 3810	Sampling Method	: Not Applicable
Temperature °C	: Not Applicable	Site Observation	: Not Applicable
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Female Side FF3
Sampling Point	: Water Fountain	Preservation	: Not Applicable
Sample Description	: Water	Samplerrefno	: 3

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
SN	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**

Head of Microbiology Department

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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-2102-34388



Request No. : WA-Q-L-2102-04873 Received Date : 03/02/2021 Sample No. : WA-S-L-2102-33934

Sampling Date	: 03/02/2021	Report Date.	: 13/02/2021
Analysis Start Date.	: 03/02/2021	Analysis End Date.	: 13/02/2021
Sample Location.	: Zayed University	Sampled By	: Client Representative
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 3810	Sampling Method	: Not Applicable
Temperature °C	: Not Applicable	Site Observation	: Not Applicable
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Female Side F3
Sampling Point	: Water Fountain	Preservation	: Not Applicable
Sample Description	: Water	Samplerrefno	: 2

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
SN	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**

Head of Microbiology Department

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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-2102-34387



Request No. : WA-Q-L-2102-04873 Received Date : 03/02/2021 Sample No. : WA-S-L-2102-33933

Sampling Date	: 03/02/2021	Report Date.	: 13/02/2021
Analysis Start Date.	: 03/02/2021	Analysis End Date.	: 13/02/2021
Sample Location.	: Zayed University	Sampled By	: Client Representative
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 3810	Sampling Method	: Not Applicable
Temperature °C	: Not Applicable	Site Observation	: Not Applicable
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Female Side F4
Sampling Point	: Water Fountain	Preservation	: Not Applicable
Sample Description	: Water	Samplerrefno	: 1

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
SN	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**

Head of Microbiology Department

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## CONSULTING SERVICE REPORT

**CUSTOMER: SERCO FACILITY MANAGEMENT.**

**To: MR. MUHAMMED AFSHAR OPERATIONS ENGINEER**

**DATE: 03-02-2021**

**SITE: ZAYED UNIVERSITY**

**COPY: SERCO**

**LOCATION: Female Side M4 Water Fountain**

### WATER FEATURE ANALYSIS

PARAMETER	CONTROL LIMITS	Water Fountain			
pH	7.2 - 7.6	7.53			
Conductivity, $\mu\text{s}/\text{cm}$		372			
TDS, ppm	Max 1500	241			
'P' Alkalinity, ppm as $\text{CaCO}_3$	80 - 120	86			
Total Hardness, ppm as $\text{CaCO}_3$					
Calcium Hardness, ppm as $\text{CaCO}_3$	100 - 500	124			
Chloride, ppm as $\text{Cl}^-$					
Iron, ppm as Fe					
<b>Treatment Residuals</b>					
Silica, ppm					
CaH Balance					
Dipslide	<10 <sup>3</sup>	ND			
Phosphate/Phosphonate					
Free Residual Chlorine as Cl	1.0 - 2.0	1.16			
Cyanuric Acid	20 - 60	25			

*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

⇒ No Action Recommended.

Chlorine levels & Cyanuric acid levels are satisfactory

⇒ No Action Recommended.

Calcium hardness satisfactory

⇒ No Action Recommended.

**Kindly add chlorine and pool acid to maintain the desired control parameters in the water feature.**

### INVENTORY LEVELS

### DOSAGE SCHEDULE

Chemical	Quantity	Chemical	Present Dosage	Revised Dosage
Chlorine Tablets				
Pool Acid			--	
Crystal Care			--	
			--	

**Service Engineer:** Murugaraaj

**Client:** Mr. Muhammed Afshar

**Signature:**

*Murugaraaj*

**Signature:**





## CONSULTING SERVICE REPORT

**CUSTOMER: SERCO FACILITY MANAGEMENT.**

**To: MR. MUHAMMED AFSHAR OPERATIONS ENGINEER**

**DATE: 03-02-2021**

**SITE: ZAYED UNIVERSITY**

**COPY: SERCO**

**LOCATION: Female Side M3 Water Fountain**

### WATER FEATURE ANALYSIS

PARAMETER	CONTROL LIMITS	Water Feature -01			
pH	7.2 - 7.6	7.48			
Conductivity, $\mu\text{s}/\text{cm}$		364			
TDS, ppm	Max 1500	236			
'P' Alkalinity, ppm as $\text{CaCO}_3$	80 - 120	88			
Total Hardness, ppm as $\text{CaCO}_3$					
Calcium Hardness, ppm as $\text{CaCO}_3$	100 - 500	132			
Chloride, ppm as $\text{Cl}^-$					
Iron, ppm as Fe					
<b>Treatment Residuals</b>					
Silica, ppm					
CaH Balance					
Dipslide	<10 <sup>3</sup>	ND			
Phosphate/Phosphonate					
Free Residual Chlorine as Cl	1.0 - 2.0	1.09			
Cyanuric Acid	20 - 60	22			

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



No Action Recommended.

Chlorine levels & Cyanuric acid levels are satisfactory



No Action Recommended.

Calcium hardness satisfactory



No Action Recommended.

Kindly add chlorine and pool acid to maintain the desired control parameters in the water feature.

### INVENTORY LEVELS

### DOSAGE SCHEDULE

Chemical	Quantity	Chemical	Present Dosage	Revised Dosage
Chlorine Tablets				
Pool Acid			--	
Crystal Care			--	

**Service Engineer:**

Murugaraaj

**Client:**

Mr. Muhammed Afshar

**Signature:**

*Murugaraaj*

**Signature:**





## CONSULTING SERVICE REPORT

<b>CUSTOMER: SERCO FACILITY MANAGEMENT.</b>	<b>To: MR. MUHAMMED AFSHAR OPERATIONS ENGINEER</b>	<b>DATE: 03-02-2021</b>
<b>SITE: ZAYED UNIVERSITY</b>	<b>COPY: SERCO</b>	<b>LOCATION: Female Side MF2 Water Fountain</b>

### WATER FEATURE ANALYSIS

PARAMETER	CONTROL LIMITS	Water Fountain			
pH	7.2 - 7.6	7.47			
Conductivity, $\mu\text{s}/\text{cm}$		419			
TDS, ppm	Max 1500	272			
'P' Alkalinity, ppm as $\text{CaCO}_3$	80 - 120	93			
Total Hardness, ppm as $\text{CaCO}_3$					
Calcium Hardness, ppm as $\text{CaCO}_3$	100 - 500	126			
Chloride, ppm as Cl					
Iron, ppm as Fe					

#### Treatment Residuals

Silica, ppm					
CaH Balance					
Dipslide	<10 <sup>3</sup>	ND			
Phosphate/Phosphonate					
Free Residual Chlorine as Cl	1.0 - 2.0	1.27			
Cyanuric Acid	20 - 60	30			

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	⇨	No Action Recommended.
Chlorine levels & Cyanuric acid levels are satisfactory	⇨	No Action Recommended.
Calcium hardness satisfactory	⇨	No Action Recommended.

**Kindly add chlorine and pool acid to maintain the desired control parameters in the water feature.**

#### INVENTORY LEVELS

#### DOSAGE SCHEDULE

Chemical	Quantity	Chemical	Present Dosage	Revised Dosage
Chlorine Tablets			--	
Pool Acid			--	
Crystal Care			--	

Service Engineer:	Murugaraaj	Client:	Mr. Muhammed Afshar
Signature:		Signature:	



## CONSULTING SERVICE REPORT

<b>CUSTOMER: SERCO FACILITY MANAGEMENT.</b>	<b>To: MR. MUHAMMED AFSHAR OPERATIONS ENGINEER</b>	<b>DATE: 03-02-2021</b>
<b>SITE: ZAYED UNIVERSITY</b>	<b>COPY: SERCO</b>	<b>LOCATION: Female Side MF3 Water Fountain</b>

### WATER FEATURE ANALYSIS

PARAMETER	CONTROL LIMITS	Water Fountain			
pH	7.2 - 7.6	7.56			
Conductivity, $\mu\text{s}/\text{cm}$		394			
TDS, ppm	Max 1500	263			
'P' Alkalinity, ppm as $\text{CaCO}_3$	80 - 120	91			
Total Hardness, ppm as $\text{CaCO}_3$					
Calcium Hardness, ppm as $\text{CaCO}_3$	100 - 500	124			
Chloride, ppm as $\text{Cl}^-$					
Iron, ppm as Fe					

#### Treatment Residuals

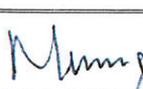
Silica, ppm					
CaH Balance					
Dipslide	<10 <sup>3</sup>	ND			
Phosphate/Phosphonate					
Free Residual Chlorine as Cl	1.0 - 2.0	1.13			
Cyanuric Acid	20 - 60	21			

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.
Chlorine levels & Cyanuric acid levels are satisfactory $\Rightarrow$	No Action Recommended.
Calcium hardness satisfactory $\Rightarrow$	No Action Recommended.

**Kindly add chlorine and pool acid to maintain the desired control parameters in the water feature.**

INVENTORY LEVELS			DOSAGE SCHEDULE	
Chemical	Quantity	Chemical	Present Dosage	Revised Dosage
Chlorine Tablets			--	
Pool Acid			--	
Crystal Care			--	

Service Engineer:	Murugaraaj	Client:	Mr. Muhammed Afshar
Signature:		Signature:	





## CONSULTING SERVICE REPORT

<b>CUSTOMER: SERCO FACILITY MANAGEMENT.</b>	<b>To: MR. MUHAMMED AFSHAR OPERATIONS ENGINEER</b>	<b>DATE: 03-02-2021</b>
<b>SITE: ZAYED UNIVERSITY</b>	<b>COPY: SERCO</b>	<b>LOCATION: Female Side FF4 Water Fountain</b>

### WATER FEATURE ANALYSIS

PARAMETER	CONTROL LIMITS	Water Fountain			
pH	7.2 - 7.6	7.52			
Conductivity, $\mu\text{s}/\text{cm}$		376			
TDS, ppm	Max 1500	251			
'P' Alkalinity, ppm as $\text{CaCO}_3$	80 - 120	82			
Total Hardness, ppm as $\text{CaCO}_3$					
Calcium Hardness, ppm as $\text{CaCO}_3$	100 - 500	106			
Chloride, ppm as $\text{Cl}^-$					
Iron, ppm as Fe					

#### Treatment Residuals

Silica, ppm					
CaH Balance					
Dipslide	<10 <sup>3</sup>	ND			
Phosphate/Phosphonate					
Free Residual Chlorine as Cl	1.0 - 2.0	1.14			
Cyanuric Acid	20 - 60	23			

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	⇒	No Action Recommended.
Chlorine levels & Cyanuric acid levels are satisfactory	⇒	No Action Recommended.
Calcium hardness satisfactory	⇒	No Action Recommended.

**Kindly add chlorine and pool acid to maintain the desired control parameters in the water feature.**

#### INVENTORY LEVELS

#### DOSAGE SCHEDULE

Chemical	Quantity	Chemical	Present Dosage	Revised Dosage
Chlorine Tablets			--	
Pool Acid			--	
Crystal Care			--	

Service Engineer:	Murugaraaj	Client:	Mr. Muhammed Afshar
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Signature:		Signature:	
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## CONSULTING SERVICE REPORT

<b>CUSTOMER: SERCO FACILITY MANAGEMENT.</b>	<b>To: MR. MUHAMMED AFSHAR OPERATIONS ENGINEER</b>	<b>DATE: 03-02-2021</b>
<b>SITE: ZAYED UNIVERSITY</b>	<b>COPY: SERCO</b>	<b>LOCATION: Female Side FF3 Water Fountain</b>

### WATER FEATURE ANALYSIS

PARAMETER	CONTROL LIMITS	Water Fountain			
pH	7.2 - 7.6	7.56			
Conductivity, $\mu\text{s}/\text{cm}$		385			
TDS, ppm	Max 1500	250			
'P' Alkalinity, ppm as $\text{CaCO}_3$	80 - 120	86			
Total Hardness, ppm as $\text{CaCO}_3$					
Calcium Hardness, ppm as $\text{CaCO}_3$	100 - 500	110			
Chloride, ppm as $\text{Cl}^-$					
Iron, ppm as Fe					

#### Treatment Residuals

Silica, ppm					
CaH Balance					
Dipslide	<10 <sup>3</sup>	ND			
Phosphate/Phosphonate					
Free Residual Chlorine as Cl	1.0 - 2.0	1.08			
Cyanuric Acid	20 - 60	21			

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	⇒	No Action Recommended.
Chlorine levels & Cyanuric acid levels are satisfactory	⇒	No Action Recommended.
Calcium hardness satisfactory	⇒	No Action Recommended.

**Kindly add chlorine and pool acid to maintain the desired control parameters in the water feature.**

#### INVENTORY LEVELS

#### DOSAGE SCHEDULE

Chemical	Quantity	Chemical	Present Dosage	Revised Dosage
Chlorine Tablets			--	
Pool Acid			--	
Crystal Care			--	

Service Engineer:	Murugaraaj	Client:	Mr. Muhammed Afshar
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Signature:

*Murugaraaj*

Signature:





## CONSULTING SERVICE REPORT

<b>CUSTOMER: SERCO FACILITY MANAGEMENT.</b>	<b>To: MR. MUHAMMED AFSHAR OPERATIONS ENGINEER</b>	<b>DATE: 03-02-2021</b>
<b>SITE: ZAYED UNIVERSITY</b>	<b>COPY: SERCO</b>	<b>LOCATION: Female Side F3 Water Fountain</b>

### WATER FEATURE ANALYSIS

PARAMETER	CONTROL LIMITS	Water Fountain			
pH	7.2 - 7.6	7.53			
Conductivity, $\mu\text{s/cm}$		392			
TDS, ppm	Max 1500	256			
'P' Alkalinity, ppm as $\text{CaCO}_3$	80 - 120	84			
Total Hardness, ppm as $\text{CaCO}_3$					
Calcium Hardness, ppm as $\text{CaCO}_3$	100 - 500	112			
Chloride, ppm as $\text{Cl}^-$					
Iron, ppm as Fe					

### Treatment Residuals

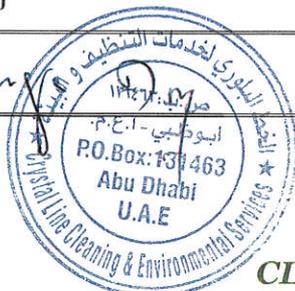
Silica, ppm					
CaH Balance					
Dipslide	$<10^3$	ND			
Phosphate/Phosphonate					
Free Residual Chlorine as Cl	1.0 - 2.0	1.14			
Cyanuric Acid	20 - 60	22			

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 <span style="float: right;">⇨</span>	No Action Recommended.
Chlorine levels & Cyanuric acid levels are satisfactory <span style="float: right;">⇨</span>	No Action Recommended.
Calcium hardness satisfactory <span style="float: right;">⇨</span>	No Action Recommended.

Kindly add chlorine and pool acid to maintain the desired control parameters in the water feature.

INVENTORY LEVELS			DOSAGE SCHEDULE	
Chemical	Quantity	Chemical	Present Dosage	Revised Dosage
Chlorine Tablets			--	
Pool Acid			--	
Crystal Care			--	
Service Engineer:	Murugaraaj		Client:	Mr. Muhammed Afshar
Signature:			Signature:	





## CONSULTING SERVICE REPORT

<b>CUSTOMER: SERCO FACILITY MANAGEMENT.</b>	<b>To: MR. MUHAMMED AFSHAR OPERATIONS ENGINEER</b>	<b>DATE: 03-02-2021</b>
<b>SITE: ZAYED UNIVERSITY</b>	<b>COPY: SERCO</b>	<b>LOCATION: Female Side F4 Water Fountain</b>

### WATER FEATURE ANALYSIS

PARAMETER	CONTROL LIMITS	Water Fountain			
pH	7.2 - 7.6	7.58			
Conductivity, $\mu\text{s}/\text{cm}$		389			
TDS, ppm	Max 1500	252			
'P' Alkalinity, ppm as $\text{CaCO}_3$	80 - 120	85			
Total Hardness, ppm as $\text{CaCO}_3$					
Calcium Hardness, ppm as $\text{CaCO}_3$	100 - 500	112			
Chloride, ppm as $\text{Cl}^-$					
Iron, ppm as Fe					

#### Treatment Residuals

Silica, ppm					
CaH Balance					
Dipslide	<10 <sup>3</sup>	ND			
Phosphate/Phosphonate					
Free Residual Chlorine as Cl	1.0 - 2.0	1.16			
Cyanuric Acid	20 - 60	23			

*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	⇒	No Action Recommended.
Chlorine levels & Cyanuric acid levels are satisfactory	⇒	No Action Recommended.
Calcium hardness satisfactory	⇒	No Action Recommended.

**Kindly add chlorine and pool acid to maintain the desired control parameters in the water feature.**

#### INVENTORY LEVELS

#### DOSAGE SCHEDULE

Chemical	Quantity	Chemical	Present Dosage	Revised Dosage
Chlorine Tablets			--	
Pool Acid			--	
Crystal Care			--	

Service Engineer:	Murugaraaj	Client:	Mr. Muhammed Afshar
Signature:		Signature:	

