



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-2010-23505



Request No. : WA-Q-L-2010-03422

Sample No. : WA-S-L-2010-22731

Sampling Date	: 17/10/2020	Report Date.	: 20/10/2020
Analysis Start Date.	: 17/10/2020	Analysis End Date.	: 19/10/2020
Sample Location.	: ADIA, BRC	Sampled By	: Amin ullah
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 2196	Sampling Method	: APHA 9060 A&B
Temperature °C	: 31	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Tank
Sampling Point	: Ground Floor-Main Water Tank	Preservation	: 4-8°C
Lot Size	: Not Applicable	Production date	: Not Applicable
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

Head of Microbiology Department

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Microbiology Test Report

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Crystalline Cleaning & Environmental Services

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

Report No. WA-R-L-2010-23506



Request No. : WA-Q-L-2010-03422

Sample No. : WA-S-L-2010-22732

Sampling Date	: 17/10/2020	Report Date.	: 20/10/2020
Analysis Start Date.	: 17/10/2020	Analysis End Date.	: 19/10/2020
Sample Location.	: ADIA, BRC	Sampled By	: Amin ullah
Sample Identification	: EM:40720, Asset Code: MU-EXT-PLM-WT-03	Sample Submitted as	: Water
Sample Certificate No	: 2196	Sampling Method	: APHA 9060 A&B
Temperature °C	: 30	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Tank
Sampling Point	: Ground Floor- Filter Water Tank #01	Preservation	: 4-8°C
Lot Size	: Not Applicable	Production date	: Not Applicable
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.

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Microbiology Test Report

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Crystalline Cleaning & Environmental Services

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

Report No. WA-R-L-2010-23507



Request No. : WA-Q-L-2010-03422

Sample No. : WA-S-L-2010-22733

Sampling Date	: 17/10/2020	Report Date.	: 20/10/2020
Analysis Start Date.	: 17/10/2020	Analysis End Date.	: 19/10/2020
Sample Location.	: ADIA, BRC	Sampled By	: Amin ullah
Sample Identification	: EM:40721, Asset Code: MU-EXT-PLM-WT-04	Sample Submitted as	: Water
Sample Certificate No	: 2196	Sampling Method	: APHA 9060 A&B
Temperature °C	: 30	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Tank
Sampling Point	: Ground Floor- Filter Water Tank #02	Preservation	: 4-8°C
Lot Size	: Not Applicable	Production date	: Not Applicable
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.

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Customer Details

Crystalline Cleaning & Environmental Services

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

Report No. WA-R-L-2010-23494



Request No. : WA-Q-L-2010-03422

Sample No. : WA-S-L-2010-22720

Sampling Date	: 17/10/2020	Report Date.	: 20/10/2020
Analysis Start Date.	: 17/10/2020	Analysis End Date.	: 19/10/2020
Sample Location.	: ADIA, BRC	Sampled By	: Amin ullah
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 2196	Sampling Method	: APHA 9060 A&B
Temperature °C	: 28	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Water Tap
Sampling Point	: Ground Floor Pantry-Cold Water	Preservation	: 4-8°C
Lot Size	: Not Applicable	Production date	: Not Applicable
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.

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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-2010-23496



Request No. : WA-Q-L-2010-03422

Sample No. : WA-S-L-2010-22722

Sampling Date	: 17/10/2020	Report Date.	: 20/10/2020
Analysis Start Date.	: 17/10/2020	Analysis End Date.	: 19/10/2020
Sample Location.	: ADIA, BRC	Sampled By	: Amin ullah
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 2196	Sampling Method	: APHA 9060 A&B
Temperature °C	: 27	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Water Tap
Sampling Point	: Ground Floor Kitchen-Cold Water	Preservation	: 4-8°C
Lot Size	: Not Applicable	Production date	: Not Applicable
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



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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-2010-23498



Request No. : WA-Q-L-2010-03422

Sample No. : WA-S-L-2010-22724

Sampling Date	: 17/10/2020	Report Date.	: 20/10/2020
Analysis Start Date.	: 17/10/2020	Analysis End Date.	: 19/10/2020
Sample Location.	: ADIA, BRC	Sampled By	: Amin ullah
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 2196	Sampling Method	: APHA 9060 A&B
Temperature °C	: 28	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Water Tap
Sampling Point	: Ground Floor-Male Washroom- Cold Water	Preservation	: 4-8°C
Lot Size	: Not Applicable	Production date	: Not Applicable
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.

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Microbiology Test Report

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Crystalline Cleaning & Environmental Services

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

Report No. WA-R-L-2010-23500



Request No. : WA-Q-L-2010-03422

Sample No. : WA-S-L-2010-22726

Sampling Date	: 17/10/2020	Report Date.	: 20/10/2020
Analysis Start Date.	: 17/10/2020	Analysis End Date.	: 19/10/2020
Sample Location.	: ADIA, BRC	Sampled By	: Amin ullah
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 2196	Sampling Method	: APHA 9060 A&B
Temperature °C	: 27	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Water Tap
Sampling Point	: Mezzanine Floor-Male Wahsroom-Cold Water	Preservation	: 4-8°C
Lot Size	: Not Applicable	Production date	: Not Applicable
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.

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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-2010-23495



Request No. : WA-Q-L-2010-03422

Sample No. : WA-S-L-2010-22721

Sampling Date	: 17/10/2020	Report Date.	: 20/10/2020
Analysis Start Date.	: 17/10/2020	Analysis End Date.	: 19/10/2020
Sample Location.	: ADIA, BRC	Sampled By	: Amin ullah
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 2196	Sampling Method	: APHA 9060 A&B
Temperature °C	: 39	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Water Tap
Sampling Point	: Ground Floor Pantry-Hot Water	Preservation	: 4-8°C
Lot Size	: Not Applicable	Production date	: Not Applicable
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.

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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-2010-23497



Request No. : WA-Q-L-2010-03422

Sample No. : WA-S-L-2010-22723

Sampling Date	: 17/10/2020	Report Date.	: 20/10/2020
Analysis Start Date.	: 17/10/2020	Analysis End Date.	: 19/10/2020
Sample Location.	: ADIA, BRC	Sampled By	: Amin ullah
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 2196	Sampling Method	: APHA 9060 A&B
Temperature °C	: 40	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Water Tap
Sampling Point	: Ground Floor Kitchen-Hot Water	Preservation	: 4-8°C
Lot Size	: Not Applicable	Production date	: Not Applicable
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



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Head of Microbiology Department

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Microbiology Test Report

Report No. WA-R-L-2010-23499

Customer Details

Crystalline Cleaning & Environmental Services

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



Request No. : WA-Q-L-2010-03422

Sample No. : WA-S-L-2010-22725

Sampling Date	: 17/10/2020	Report Date.	: 20/10/2020
Analysis Start Date.	: 17/10/2020	Analysis End Date.	: 19/10/2020
Sample Location.	: ADIA, BRC	Sampled By	: Amin ullah
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 2196	Sampling Method	: APHA 9060 A&B
Temperature °C	: 39.7	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Water Tap
Sampling Point	: Ground Floor-Male Washroom- Hot Water	Preservation	: 4-8°C
Lot Size	: Not Applicable	Production date	: Not Applicable
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.

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Microbiology Test Report

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Crystalline Cleaning & Environmental Services

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

Report No. WA-R-L-2010-23501



Request No. : WA-Q-L-2010-03422

Sample No. : WA-S-L-2010-22727

Sampling Date	: 17/10/2020	Report Date.	: 20/10/2020
Analysis Start Date.	: 17/10/2020	Analysis End Date.	: 19/10/2020
Sample Location.	: ADIA, BRC	Sampled By	: Amin ullah
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 2196	Sampling Method	: APHA 9060 A&B
Temperature °C	: 39	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Water Tap
Sampling Point	: Mezzanine Floor-Male Wahsroom-Hot Water	Preservation	: 4-8°C
Lot Size	: Not Applicable	Production date	: Not Applicable
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.

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Head of Microbiology Department



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POTABLE WATER ANALYSIS REPORT

Client Name: SERCO, MIDDLE EAST

Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	17-10-2020
Sampled By	Crystalline Rep	Location	ADIA - BRC
Sample Type	Potable Water (Cold Outlet)	Sample Point	Ground Floor -Pantry

	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	7.99
2	Conductivity at 25°C, µs/cm	----	284
3	Total Dissolved Solids (TDS)	Max 1000	184
4	Odor	Unobjectionable	ND
5	Turbidity (including suspended solids)	4.0	<1.0
6	Residual Chlorine	0.2 - 0.5	0.11
7	Calcium Hardness at 25°C	200	66
8	Total Hardness at 25°C	300	69

Inorganic Chemical Parameters

1	Sulphate	Max 250.0	<10
2	Chlorides	Max 250.0	54
3	Iron	Max 0.2	<0.05
4	Copper	Max 1.0	<0.05
5	Zinc	Max 5.0	<0.05
6	Nitrate	Max 50.0	<1.0
7	Nitrite	Max 3.0	<0.05
8	potassium	Max 12.0	<5.0
9	Aluminium	Max 0.2	<0.05

*** All test results expressed in parts per million (ppm) as CaCO₃ except pH and conductivity (µmhos).

COMMENTS AND RECOMMENDATIONS

1	PH, Conductivity & TDS levels are normal.
2	Residual chlorine level is low – Please maintain the desired control limit
3	Calcium hardness and Total Hardness levels are satisfactory.
4	All inorganic parameters are within the control limit.

Reported By,

Murugaraa
Murugaraa
Service Engineer



POTABLE WATER ANALYSIS REPORT

Client Name: SERCO, MIDDLE EAST

Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	17-10-2020
Sampled By	Crystalline Rep	Location	ADIA - BRC
Sample Type	Potable Water (Cold Outlet)	Sample Point	Ground Floor Kitchen

	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	7.88
2	Conductivity at 25°C, µs/cm	----	178
3	Total Dissolved Solids (TDS)	Max 1000	116
4	Odor	Unobjectionable	ND
5	Turbidity (including suspended solids)	4.0	<1.0
6	Residual Chlorine	0.2 – 0.5	0.11
7	Calcium Hardness at 25°C	200	63
8	Total Hardness at 25°C	300	70

Inorganic Chemical Parameters

1	Sulphate	Max 250.0	<10
2	Chlorides	Max 250.0	49
3	Iron	Max 0.2	<0.05
4	Copper	Max 1.0	<0.05
5	Zinc	Max 5.0	<0.05
6	Nitrate	Max 50.0	<1.0
7	Nitrite	Max 3.0	<0.05
8	potassium	Max 12.0	<5.0
9	Aluminium	Max 0.2	<0.05

*** All test results expressed in parts per million (ppm) as CaCO₃ except pH and conductivity (µmhos).

COMMENTS AND RECOMMENDATIONS

1	PH, Conductivity & TDS levels are normal.
2	Residual chlorine level is low – Please maintain the desired control limit
3	Calcium hardness and Total Hardness levels are satisfactory.
4	All inorganic parameters are within the control limit.

Reported By,

Murugaraa
Service Engineer



POTABLE WATER ANALYSIS REPORT

Client Name: SERCO, MIDDLE EAST

Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	17-10-2020
Sampled By	Crystalline Rep	Location	ADIA - BRC
Sample Type	Potable Water (Cold Outlet)	Sample Point	Ground Floor Wash Room

	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	7.85
2	Conductivity at 25°C, µs/cm	----	282
3	Total Dissolved Solids (TDS)	Max 1000	183
4	Odor	Unobjectionable	ND
5	Turbidity (including suspended solids)	4.0	<1.0
6	Residual Chlorine	0.2 - 0.5	0.12
7	Calcium Hardness at 25°C	200	68
8	Total Hardness at 25°C	300	71

Inorganic Chemical Parameters

1	Sulphate	Max 250.0	<10
2	Chlorides	Max 250.0	51
3	Iron	Max 0.2	<0.05
4	Copper	Max 1.0	<0.05
5	Zinc	Max 5.0	<0.05
6	Nitrate	Max 50.0	<1.0
7	Nitrite	Max 3.0	<0.05
8	potassium	Max 12.0	<5.0
9	Aluminium	Max 0.2	<0.05

*** All test results expressed in parts per million (ppm) as CaCO₃ except pH and conductivity (µmhos).

COMMENTS AND RECOMMENDATIONS

1	PH, Conductivity & TDS levels are normal.
2	Residual chlorine level is low – Please maintain the desired control limit
3	Calcium hardness and Total Hardness levels are satisfactory.
4	All inorganic parameters are within the control limit.

Reported By,

Murugaraa
Service Engineer



POTABLE WATER ANALYSIS REPORT

Client Name: SERCO, MIDDLE EAST			
Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	17-10-2020
Sampled By	Crystalline Rep	Location	ADIA - BRC
Sample Type	Potable Water (Cold Outlet)	Sample Point	Mezzanine Floor Wash Room

	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	7.84
2	Conductivity at 25°C, µs/cm	----	276
3	Total Dissolved Solids (TDS)	Max 1000	179
4	Odor	Unobjectionable	ND
5	Turbidity (including suspended solids)	4.0	<1.0
6	Residual Chlorine	0.2 - 0.5	0.11
7	Calcium Hardness at 25°C	200	58
8	Total Hardness at 25°C	300	67

Inorganic Chemical Parameters

1	Sulphate	Max 250.0	<10
2	Chlorides	Max 250.0	53
3	Iron	Max 0.2	<0.05
4	Copper	Max 1.0	<0.05
5	Zinc	Max 5.0	<0.05
6	Nitrate	Max 50.0	<1.0
7	Nitrite	Max 3.0	<0.05
8	potassium	Max 12.0	<5.0
9	Aluminium	Max 0.2	<0.05

*** All test results expressed in parts per million (ppm) as CaCO₃ except pH and conductivity (µmhos).

COMMENTS AND RECOMMENDATIONS

1	PH, Conductivity & TDS levels are normal.
2	Residual chlorine level is low – Please maintain the desired control limit
3	Calcium hardness and Total Hardness levels are satisfactory.
4	All inorganic parameters are within the control limit.

Reported By,

Murugaraa
Service Engineer



POTABLE WATER ANALYSIS REPORT

Client Name: SERCO, MIDDLE EAST

Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	17-10-2020
Sampled By	Crystalline Rep	Location	ADIA - BRC
Sample Type	Potable Water (Hot Outlet)	Sample Point	Ground Floor Pantry

	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	8.23
2	Conductivity at 25°C, µS/cm	----	281
3	Total Dissolved Solids (TDS)	Max 1000	182
4	Odor	Unobjectionable	ND
5	Turbidity (including suspended solids)	4.0	<1.0
6	Calcium Hardness at 25°C	200	62
7	Total Hardness at 25°C	300	67

Inorganic Chemical Parameters

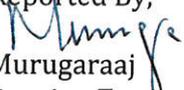
1	Sulphate	Max 250.0	<10
2	Chlorides	Max 250.0	51
3	Iron	Max 0.2	<0.05
4	Copper	Max 1.0	<0.05
5	Zinc	Max 5.0	<0.05
6	Nitrate	Max 50.0	<1.0
7	Nitrite	Max 3.0	<0.05
8	potassium	Max 12.0	<5.0
9	Aluminium	Max 0.2	<0.05

*** All test results expressed in parts per million (ppm) as CaCO₃ except pH and conductivity (µmhos).

COMMENTS AND RECOMMENDATIONS

1	PH, Conductivity & TDS levels are normal
2	Calcium hardness and Total Hardness levels are satisfactory
3	All inorganic parameters are within the control limit

Reported By,


Murugaraaj
Service Engineer



POTABLE WATER ANALYSIS REPORT

Client Name: SERCO, MIDDLE EAST

Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	17-10-2020
Sampled By	Crystalline Rep	Location	ADIA -BRC
Sample Type	Potable Water (Hot Outlet)	Sample Point	Ground Floor Kitchen

	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	8.13
2	Conductivity at 25°C, $\mu\text{s}/\text{cm}$	----	274
3	Total Dissolved Solids (TDS)	Max 1000	178
4	Odor	Unobjectionable	ND
5	Turbidity (including suspended solids)	4.0	<1.0
6	Calcium Hardness at 25°C	200	64
7	Total Hardness at 25°C	300	67
Inorganic Chemical Parameter			
1	Sulphate	Max 250.0	<10
2	Chlorides	Max 250.0	53
3	Iron	Max 0.2	<0.05
4	Copper	Max 1.0	<0.05
5	Zinc	Max 5.0	<0.05
6	Nitrate	Max 50.0	<1.0
7	Nitrite	Max 3.0	<0.05
8	potassium	Max 12.0	<5.0
9	Aluminium	Max 0.2	<0.05

*** All test results expressed in parts per million (ppm) as CaCO_3 except pH and conductivity (μmhos).

COMMENTS AND RECOMMENDATIONS

1	PH, Conductivity & TDS levels are normal
2	Calcium hardness and Total Hardness levels are satisfactory
3	All inorganic parameters are within the control limit

Reported By,

Murugaraaj
Murugaraaj
Service Engineer



POTABLE WATER ANALYSIS REPORT

Client Name: SERCO, MIDDLE EAST

Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	17-10-2020
Sampled By	Crystalline Rep	Location	ADIA - BRC
Sample Type	Potable Water (Hot Outlet)	Sample Point	Ground Floor Wash Room

	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	8.21
2	Conductivity at 25°C, µs/cm	----	262
3	Total Dissolved Solids (TDS)	Max 1000	170
4	Odor	Unobjectionable	ND
5	Turbidity (including suspended solids)	4.0	<1.0
6	Calcium Hardness at 25°C	200	58
7	Total Hardness at 25°C	300	65

Inorganic Chemical Parameters

1	Sulphate	Max 250.0	<10
2	Chlorides	Max 250.0	46
3	Iron	Max 0.2	<0.05
4	Copper	Max 1.0	<0.05
5	Zinc	Max 5.0	<0.05
6	Nitrate	Max 50.0	<1.0
7	Nitrite	Max 3.0	<0.05
8	potassium	Max 12.0	<5.0
9	Aluminium	Max 0.2	<0.05

*** All test results expressed in parts per million (ppm) as CaCO₃ except pH and conductivity (µmhos).

COMMENTS AND RECOMMENDATIONS

1	PH, Conductivity & TDS levels are normal
2	Calcium hardness and Total Hardness levels are satisfactory
3	All inorganic parameters are within the control limit

Reported By,

Murugaraaj
Murugaraaj
Service Engineer



POTABLE WATER ANALYSIS REPORT

Client Name: SERCO, MIDDLE EAST

Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	17-10-2020
Sampled By	Crystalline Rep	Location	ADIA - BRC
Sample Type	Potable Water (Hot Outlet)	Sample Point	Mezzanine Floor Wash Room

	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	8.31
2	Conductivity at 25°C, µs/cm	----	261
3	Total Dissolved Solids (TDS)	Max 1000	169
4	Odor	Unobjectionable	ND
5	Turbidity (including suspended solids)	4.0	<1.0
6	Calcium Hardness at 25°C	200	57
7	Total Hardness at 25°C	300	62
Inorganic Chemical Parameters			
1	Sulphate	Max 250.0	<10
2	Chlorides	Max 250.0	45
3	Iron	Max 0.2	<0.05
4	Copper	Max 1.0	<0.05
5	Zinc	Max 5.0	<0.05
6	Nitrate	Max 50.0	<1.0
7	Nitrite	Max 3.0	<0.05
8	potassium	Max 12.0	<5.0
9	Aluminium	Max 0.2	<0.05

*** All test results expressed in parts per million (ppm) as CaCO₃ except pH and conductivity (µmhos).

COMMENTS AND RECOMMENDATIONS

1	PH, Conductivity & TDS levels are normal
2	Calcium hardness and Total Hardness levels are satisfactory
3	All inorganic parameters are within the control limit

Reported By,

Murugaraaj
Service Engineer





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-2010-23502



Request No. : WA-Q-L-2010-03422

Sample No. : WA-S-L-2010-22728

Sampling Date	: 17/10/2020	Report Date.	: 20/10/2020
Analysis Start Date.	: 17/10/2020	Analysis End Date.	: 19/10/2020
Sample Location.	: ADIA, BRC	Sampled By	: Amin ullah
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 2196	Sampling Method	: APHA 9060 A&B
Temperature °C	: 18	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Valve
Sampling Point	: Ground Floor- Chiller Yard	Preservation	: 4-8°C
Lot Size	: Not Applicable	Production date	: Not Applicable
Sample Description	: Chilled 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	-
Heterotrophic plate count	APHA 9215 B 23rd Ed. 2017	CFU/ml	Not Detected	10000CFU/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
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

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-2010-23503



Request No. : WA-Q-L-2010-03422

Sample No. : WA-S-L-2010-22729

Sampling Date	: 17/10/2020	Report Date.	: 20/10/2020
Analysis Start Date.	: 17/10/2020	Analysis End Date.	: 19/10/2020
Sample Location.	: ADIA, BRC	Sampled By	: Amin ullah
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 2196	Sampling Method	: APHA 9060 A&B
Temperature °C	: 17	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Valve
Sampling Point	: Ground Floor Chilled Water	Preservation	: 4-8°C
Lot Size	: Not Applicable	Production date	: Not Applicable
Sample Description	: Chilled 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	-
Heterotrophic plate count	APHA 9215 B 23rd Ed. 2017	CFU/ml	Not Detected	10000CFU/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
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

Head of Microbiology Department

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Microbiology Test Report

Report No. WA-R-L-2010-23504

Customer Details

Crystalline Cleaning & Environmental Services

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



Request No. : WA-Q-L-2010-03422

Sample No. : WA-S-L-2010-22730

Sampling Date	: 17/10/2020	Report Date.	: 20/10/2020
Analysis Start Date.	: 17/10/2020	Analysis End Date.	: 19/10/2020
Sample Location.	: ADIA, BRC	Sampled By	: Amin ullah
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 2196	Sampling Method	: APHA 9060 A&B
Temperature °C	: 17	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Valve
Sampling Point	: Mezzanine Floor Chilled Water	Preservation	: 4-8°C
Lot Size	: Not Applicable	Production date	: Not Applicable
Sample Description	: Chilled 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	-
Heterotrophic plate count	APHA 9215 B 23rd Ed. 2017	CFU/ml	Not Detected	10000CFU/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
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

Head of Microbiology Department

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CRYSTALLINE ENVIRONMENTAL SERVICES

CONSULTING TEST REPORT

CUSTOMER: SERCO, MIDDLE EAST	
SITE: Abu Dhabi Investment Authority, Abu Dhabi	SAMPLE POINT: BRC, Ground Floor Chiller Yard
DATE: 17-10-2020	SAMPLED BY: Crystalline Rep

CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
Ph	9.0 - 10.5	10.23
Conductivity, $\mu\text{s}/\text{cm}$	Max 3500	2840
TDS, ppm	Max 2000	1846
Iron, ppm as Fe	0 - 2.0	0.07
Treatment Residuals		
Nitrite, ppm	> 800	1280
Dipslide	<10 ³	ND

***All test results expressed in parts per million (ppm) as CaCO₃ except pH and conductivity (μmhos).

COMMENTS:	ACTION:
The pH level is satisfactory \Rightarrow	No action recommended.
The Conductivity levels are satisfactory \Rightarrow	No action recommended.
Dissolved iron levels are within control limit \Rightarrow	No action recommended.
Nitrite levels are satisfactory \Rightarrow	No action recommended.

Reported By


Murugaraaj



CLEANER WATER GREENER TOMORROW



CRYSTALLINE ENVIRONMENTAL SERVICES

CONSULTING TEST REPORT

CUSTOMER: SERCO, MIDDLE EAST	
SITE: Abu Dhabi Investment Authority, Abu Dhabi	SAMPLE POINT: BRC, Ground Floor Chiller Water
DATE: 17-10-2020	SAMPLED BY: Crystalline Rep

CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
Ph	9.0 - 10.5	10.29
Conductivity, $\mu\text{s}/\text{cm}$	Max 3500	2780
TDS, ppm	Max 2000	1807
Iron, ppm as Fe	0 - 2.0	0.12
Treatment Residuals		
Nitrite, ppm	> 800	1310
Dipslide	<10 ³	ND

***All test results expressed in parts per million (ppm) as CaCO₃ except pH and conductivity (μmhos).

COMMENTS:	ACTION:
The pH level is satisfactory \Rightarrow	No action recommended.
The Conductivity levels are satisfactory \Rightarrow	No action recommended.
Dissolved iron levels are within control limit \Rightarrow	No action recommended.
Nitrite levels are satisfactory \Rightarrow	No action recommended.

Reported By


Murugaraaj



CLEANER WATER GREENER TOMORROW



CRYSTALLINE ENVIRONMENTAL SERVICES

CONSULTING TEST REPORT

CUSTOMER: SERCO, MIDDLE EAST	
SITE: Abu Dhabi Investment Authority, Abu Dhabi	SAMPLE POINT: BRC, Mezzanine Floor Chiller Yard
DATE: 17-10-2020	SAMPLED BY: Crystalline Rep

CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
Ph	9.0 - 10.5	10.28
Conductivity, $\mu\text{s}/\text{cm}$	Max 3500	2810
TDS, ppm	Max 2000	1826
Iron, ppm as Fe	0 - 2.0	0.10
Treatment Residuals		
Nitrite, ppm	> 800	1290
Dipslide	<10 ³	ND

***All test results expressed in parts per million (ppm) as CaCO₃ except pH and conductivity (μmhos).

COMMENTS:	ACTION:
The pH level is satisfactory \Rightarrow	No action recommended.
The Conductivity levels are satisfactory \Rightarrow	No action recommended.
Dissolved iron levels are within control limit \Rightarrow	No action recommended.
Nitrite levels are satisfactory \Rightarrow	No action recommended.

Reported By


Murugaraaj



CLEANER WATER GREENER TOMORROW