



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-2012-29161



Request No. : WA-Q-L-2012-04152

Sample No. : WA-S-L-2012-28545

Sampling Date	: 13/12/2020	Report Date.	: 15/12/2020
Analysis Start Date.	: 13/12/2020	Analysis End Date.	: 15/12/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) -Business Recovery Center	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: Not Given	Sampling Method	: APHA 9060 A&B
Temperature °C	: 30	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Ground Floor – Main Water Tank
Sampling Point	: Tank	Preservation	: 4-8°C
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
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-2012-29162



Request No. : WA-Q-L-2012-04152

Sample No. : WA-S-L-2012-28546

Sampling Date	: 13/12/2020	Report Date.	: 15/12/2020
Analysis Start Date.	: 13/12/2020	Analysis End Date.	: 15/12/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) -Business Recovery Center	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: Not Given	Sampling Method	: APHA 9060 A&B
Temperature °C	: 31	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Ground Floor – Filter Water tank # 01
Sampling Point	: Tank	Preservation	: 4-8°C
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
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-2012-29163



Request No. : WA-Q-L-2012-04152

Sample No. : WA-S-L-2012-28547

Sampling Date	: 13/12/2020	Report Date.	: 15/12/2020
Analysis Start Date.	: 13/12/2020	Analysis End Date.	: 15/12/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) -Business Recovery Center	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: Not Given	Sampling Method	: APHA 9060 A&B
Temperature °C	: 30	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Ground Floor – Filter Water tank # 02
Sampling Point	: Tank	Preservation	: 4-8°C
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
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-2012-29175



Request No. : WA-Q-L-2012-04152

Sample No. : WA-S-L-2012-28559

Sampling Date	: 13/12/2020	Report Date.	: 23/12/2020
Analysis Start Date.	: 13/12/2020	Analysis End Date.	: 23/12/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) -Business Recovery Center	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: Not Given	Sampling Method	: BS 7592
Temperature °C	: 30	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Ground Floor – Main Water Tank
Sampling Point	: Tank	Preservation	: 10°C
Sample Description	: Water		

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

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

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-2012-29176



Request No. : WA-Q-L-2012-04152

Sample No. : WA-S-L-2012-28560

Sampling Date	: 13/12/2020	Report Date.	: 23/12/2020
Analysis Start Date.	: 13/12/2020	Analysis End Date.	: 23/12/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) -Business Recovery Center	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: Not Given	Sampling Method	: BS 7592
Temperature °C	: 31	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Ground Floor – Filter Water tank # 01
Sampling Point	: Tank	Preservation	: 10°C
Sample Description	: Water		

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

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

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-2012-29177



Request No. : WA-Q-L-2012-04152

Sample No. : WA-S-L-2012-28561

Sampling Date	: 13/12/2020	Report Date.	: 23/12/2020
Analysis Start Date.	: 13/12/2020	Analysis End Date.	: 23/12/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) -Business Recovery Center	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: Not Given	Sampling Method	: BS 7592
Temperature °C	: 30	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Ground Floor – Filter Water tank # 02
Sampling Point	: Tank	Preservation	: 10°C
Sample Description	: Water		

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

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

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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Customer Details

Crystalline Cleaning & Environmental Services

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

Report No. WA-R-L-2012-29150



Request No. : WA-Q-L-2012-04152

Sample No. : WA-S-L-2012-28534

Sampling Date	: 13/12/2020	Report Date.	: 15/12/2020
Analysis Start Date.	: 13/12/2020	Analysis End Date.	: 15/12/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) -Business Recovery Center	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: Not Given	Sampling Method	: APHA 9060 A&B
Temperature °C	: 29	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Ground Floor Pantry – Cold Water
Sampling Point	: Water Tap	Preservation	: 4-8°C
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
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-2012-29152



Request No. : WA-Q-L-2012-04152

Sample No. : WA-S-L-2012-28536

Sampling Date	: 13/12/2020	Report Date.	: 15/12/2020
Analysis Start Date.	: 13/12/2020	Analysis End Date.	: 15/12/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) -Business Recovery Center	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: Not Given	Sampling Method	: APHA 9060 A&B
Temperature °C	: 24	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Ground Floor Kitchen - Cold Water
Sampling Point	: Water Tap	Preservation	: 4-8°C
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
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-2012-29154



Request No. : WA-Q-L-2012-04152

Sample No. : WA-S-L-2012-28538

Sampling Date	: 13/12/2020	Report Date.	: 15/12/2020
Analysis Start Date.	: 13/12/2020	Analysis End Date.	: 15/12/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) -Business Recovery Center	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: Not Given	Sampling Method	: APHA 9060 A&B
Temperature °C	: 23	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Ground Floor- Male Washroom – Cold Water
Sampling Point	: Water Tap	Preservation	: 4-8°C
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
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-2012-29156



Request No. : WA-Q-L-2012-04152

Sample No. : WA-S-L-2012-28540

Sampling Date	: 13/12/2020	Report Date.	: 15/12/2020
Analysis Start Date.	: 13/12/2020	Analysis End Date.	: 15/12/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) -Business Recovery Center	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: Not Given	Sampling Method	: APHA 9060 A&B
Temperature °C	: 26	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Mezzanine Floor -Male Washroom - Cold Water
Sampling Point	: Water Tap	Preservation	: 4-8°C
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
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-2012-29164



Request No. : WA-Q-L-2012-04152

Sample No. : WA-S-L-2012-28548

Sampling Date	: 13/12/2020	Report Date.	: 23/12/2020
Analysis Start Date.	: 13/12/2020	Analysis End Date.	: 23/12/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) -Business Recovery Center	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: Not Given	Sampling Method	: BS 7592
Temperature °C	: 29	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Ground Floor Pantry - Cold Water
Sampling Point	: Water Tap	Preservation	: 10°C
Sample Description	: Water		

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

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

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-2012-29166



Request No. : WA-Q-L-2012-04152

Sample No. : WA-S-L-2012-28550

Sampling Date	: 13/12/2020	Report Date.	: 23/12/2020
Analysis Start Date.	: 13/12/2020	Analysis End Date.	: 23/12/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) -Business Recovery Center	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: Not Given	Sampling Method	: BS 7592
Temperature °C	: 24	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Ground Floor Kitchen - Cold Water
Sampling Point	: Water Tap	Preservation	: 10°C
Sample Description	: Water		

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

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

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-2012-29168



Request No. : WA-Q-L-2012-04152

Sample No. : WA-S-L-2012-28552

Sampling Date	: 13/12/2020	Report Date.	: 23/12/2020
Analysis Start Date.	: 13/12/2020	Analysis End Date.	: 23/12/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) -Business Recovery Center	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: Not Given	Sampling Method	: BS 7592
Temperature °C	: 23	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Ground Floor- Male Washroom – Cold Water
Sampling Point	: Water Tap	Preservation	: 10°C
Sample Description	: Water		

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

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

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-2012-29170



Request No. : WA-Q-L-2012-04152

Sample No. : WA-S-L-2012-28554

Sampling Date	: 13/12/2020	Report Date.	: 23/12/2020
Analysis Start Date.	: 13/12/2020	Analysis End Date.	: 23/12/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) -Business Recovery Center	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: Not Given	Sampling Method	: BS 7592
Temperature °C	: 26	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Mezzanine Floor -Male Washroom - Cold Water
Sampling Point	: Water Tap	Preservation	: 10°C
Sample Description	: Water		

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

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

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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CRYSTALLINE ENVIRONMENTAL SERVICES

CONSULTING SERVICE REPORT

Client Name: SERCO, MIDDLE EAST			
Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	13-12-2020
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	8.46
2	Conductivity at 25°C, $\mu\text{s}/\text{cm}$	----	239
3	Total Dissolved Solids (TDS)	Max 1000	155
4	Odor	Unobjectionable	ND
5	Turbidity (including suspended solids)	4.0	<1.0
6	Calcium Hardness at 25°C	200	59
7	Total Hardness at 25°C	300	65
Inorganic Chemical Parameters			
1	Sulphate	Max 250.0	<10
2	Chlorides	Max 250.0	48
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,

Murugan
Service Engineer



CLEANER WATER GREENER TOMORROW



CRYSTALLINE ENVIRONMENTAL SERVICES

CONSULTING SERVICE REPORT

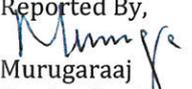
Client Name: SERCO, MIDDLE EAST			
Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	13-12-2020
Sampled By	Crystalline Rep	Location	ADIA - BRC
Sample Type	Potable Water (Cold Outlet)	Sample Point	Ground Floor Kitchen

	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	8.27
2	Conductivity at 25°C, µs/cm	----	241
3	Total Dissolved Solids (TDS)	Max 1000	159
4	Odor	Unobjectionable	ND
5	Turbidity (including suspended solids)	4.0	<1.0
6	Calcium Hardness at 25°C	200	61
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



CLEANER WATER GREENER TOMORROW



CRYSTALLINE ENVIRONMENTAL SERVICES

CONSULTING SERVICE REPORT

Client Name: SERCO, MIDDLE EAST			
Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	13-12-2020
Sampled By	Crystalline Rep	Location	ADIA - BRC
Sample Type	Potable Water (Cold Outlet)	Sample Point	Ground Floor Wash Room

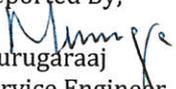
	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	8.36
2	Conductivity at 25°C, $\mu\text{s}/\text{cm}$	----	243
3	Total Dissolved Solids (TDS)	Max 1000	157
4	Odor	Unobjectionable	ND
5	Turbidity (including suspended solids)	4.0	<1.0
6	Calcium Hardness at 25°C	200	55
7	Total Hardness at 25°C	300	63
Inorganic Chemical Parameters			
1	Sulphate	Max 250.0	<10
2	Chlorides	Max 250.0	48
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
Service Engineer



CLEANER WATER GREENER TOMORROW



CRYSTALLINE ENVIRONMENTAL SERVICES

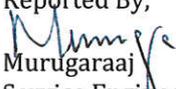
CONSULTING SERVICE REPORT

Client Name: SERCO, MIDDLE EAST			
Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	13-12-2020
Sampled By	Crystalline Rep	Location	ADIA - BRC
Sample Type	Potable Water (Cold Outlet)	Sample Point	Mezzanine Floor Washroom

	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	8.19
2	Conductivity at 25°C, $\mu\text{s}/\text{cm}$	----	245
3	Total Dissolved Solids (TDS)	Max 1000	159
4	Odor	Unobjectionable	ND
5	Turbidity (including suspended solids)	4.0	<1.0
7	Calcium Hardness at 25°C	200	62
8	Total Hardness at 25°C	300	68
Inorganic Chemical Parameters			
1	Sulphate	Max 250.0	<10
2	Chlorides	Max 250.0	57
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
Service Engineer



CLEANER WATER GREENER TOMORROW



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-2012-29151



Request No. : WA-Q-L-2012-04152

Sample No. : WA-S-L-2012-28535

Sampling Date	: 13/12/2020	Report Date.	: 15/12/2020
Analysis Start Date.	: 13/12/2020	Analysis End Date.	: 15/12/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) -Business Recovery Center	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: Not Given	Sampling Method	: APHA 9060 A&B
Temperature °C	: 39	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Ground Floor Pantry - Hot Water
Sampling Point	: Water Tap	Preservation	: 4-8°C
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
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-2012-29153



Request No. : WA-Q-L-2012-04152

Sample No. : WA-S-L-2012-28537

Sampling Date	: 13/12/2020	Report Date.	: 15/12/2020
Analysis Start Date.	: 13/12/2020	Analysis End Date.	: 15/12/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) -Business Recovery Center	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: Not Given	Sampling Method	: APHA 9060 A&B
Temperature °C	: 38.7	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Ground Floor Kitchen – Hot Water
Sampling Point	: Water Tap	Preservation	: 4-8°C
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
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-2012-29155



Request No. : WA-Q-L-2012-04152

Sample No. : WA-S-L-2012-28539

Sampling Date	: 13/12/2020	Report Date.	: 15/12/2020
Analysis Start Date.	: 13/12/2020	Analysis End Date.	: 15/12/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) -Business Recovery Center	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: Not Given	Sampling Method	: APHA 9060 A&B
Temperature °C	: 38	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Ground Floor- Male Washroom – Hot Water
Sampling Point	: Water Tap	Preservation	: 4-8°C
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
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-2012-29157



Request No. : WA-Q-L-2012-04152

Sample No. : WA-S-L-2012-28541

Sampling Date	: 13/12/2020	Report Date.	: 15/12/2020
Analysis Start Date.	: 13/12/2020	Analysis End Date.	: 15/12/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) -Business Recovery Center	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: Not Given	Sampling Method	: APHA 9060 A&B
Temperature °C	: 39	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Mezzanine Floor -Male Washroom - Hot Water
Sampling Point	: Water Tap	Preservation	: 4-8°C
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
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-2012-29165



Request No. : WA-Q-L-2012-04152

Sample No. : WA-S-L-2012-28549

Sampling Date	: 13/12/2020	Report Date.	: 23/12/2020
Analysis Start Date.	: 13/12/2020	Analysis End Date.	: 23/12/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) -Business Recovery Center	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: Not Given	Sampling Method	: BS 7592
Temperature °C	: 39	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Ground Floor Pantry - Hot Water
Sampling Point	: Water Tap	Preservation	: 10°C
Sample Description	: Water		

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

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

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-2012-29167



Request No. : WA-Q-L-2012-04152

Sample No. : WA-S-L-2012-28551

Sampling Date	: 13/12/2020	Report Date.	: 23/12/2020
Analysis Start Date.	: 13/12/2020	Analysis End Date.	: 23/12/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) -Business Recovery Center	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: Not Given	Sampling Method	: BS 7592
Temperature °C	: 38.7	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Ground Floor Kitchen - Hot Water
Sampling Point	: Water Tap	Preservation	: 10°C
Sample Description	: Water		

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

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

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-2012-29169



Request No. : WA-Q-L-2012-04152

Sample No. : WA-S-L-2012-28553

Sampling Date	: 13/12/2020	Report Date.	: 23/12/2020
Analysis Start Date.	: 13/12/2020	Analysis End Date.	: 23/12/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) -Business Recovery Center	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: Not Given	Sampling Method	: BS 7592
Temperature °C	: 38	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Ground Floor- Male Washroom – Hot Water
Sampling Point	: Water Tap	Preservation	: 10°C
Sample Description	: Water		

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

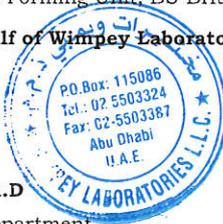
Limits based on RSB Water Quality Regulation 2014. Schedule 1. Table F For Microbiological Parameters.

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-2012-29171



Request No. : WA-Q-L-2012-04152

Sample No. : WA-S-L-2012-28555

Sampling Date	: 13/12/2020	Report Date.	: 23/12/2020
Analysis Start Date.	: 13/12/2020	Analysis End Date.	: 23/12/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) -Business Recovery Center	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: Not Given	Sampling Method	: BS 7592
Temperature °C	: 39	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Mezzanine Floor –Male Washroom – Hot Water
Sampling Point	: Water Tap	Preservation	: 10°C
Sample Description	: Water		

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

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

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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CRYSTALLINE ENVIRONMENTAL SERVICES

CONSULTING SERVICE REPORT

Client Name: SERCO, MIDDLE EAST			
Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	13-12-2020
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	8.37
2	Conductivity at 25°C, $\mu\text{s}/\text{cm}$	----	219
3	Total Dissolved Solids (TDS)	Max 1000	142
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	66

Inorganic Chemical Parameters

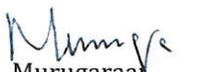
1	Sulphate	Max 250.0	<10
2	Chlorides	Max 250.0	49
3	Iron	Max 0.2	<0.05
4	Copper	Max 1.0	<0.05
5	Zinc	Max 5.0	<0.05
6	Nitrate	Max 50.0	<1.0
7	Nitrite	Max 3.0	<0.05
8	Potassium	Max 12.0	<5.0
9	Aluminium	Max 0.2	<0.05

*** All test results expressed in parts per million (ppm) as 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
Service Engineer



CLEANER WATER GREENER TOMORROW



CRYSTALLINE ENVIRONMENTAL SERVICES

CONSULTING SERVICE REPORT

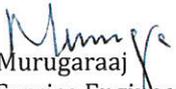
Client Name: SERCO, MIDDLE EAST			
Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	13-12-2020
Sampled By	Crystalline Rep	Location	ADIA -BRC
Sample Type	Potable Water (Hot Outlet)	Sample Point	Ground Floor Kitchen

	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	8.40
2	Conductivity at 25°C, $\mu\text{s}/\text{cm}$	----	226
3	Total Dissolved Solids (TDS)	Max 1000	146
4	Odor	Unobjectionable	ND
5	Turbidity (including suspended solids)	4.0	<1.0
6	Calcium Hardness at 25°C	200	51
7	Total Hardness at 25°C	300	57
Inorganic Chemical Parameter			
1	Sulphate	Max 250.0	<10
2	Chlorides	Max 250.0	43
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
3	Calcium hardness and Total Hardness levels are satisfactory
4	All inorganic parameters are within the control limit

Reported By,


Murugaraaj
Service Engineer



CLEANER WATER GREENER TOMORROW



CRYSTALLINE ENVIRONMENTAL SERVICES

CONSULTING SERVICE REPORT

Client Name: SERCO, MIDDLE EAST			
Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	13-12-2020
Sampled By	Crystalline Rep	Location	ADIA - BRC
Sample Type	Potable Water (Hot Outlet)	Sample Point	Ground Floor Washroom

	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	8.46
2	Conductivity at 25°C, $\mu\text{s}/\text{cm}$	----	250
3	Total Dissolved Solids (TDS)	Max 1000	162
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	71

Inorganic Chemical Parameters

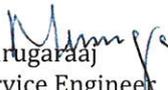
1	Sulphate	Max 250.0	<10
2	Chlorides	Max 250.0	50
3	Iron	Max 0.2	<0.05
4	Copper	Max 1.0	<0.05
5	Zinc	Max 5.0	<0.05
6	Nitrate	Max 50.0	<1.0
7	Nitrite	Max 3.0	<0.05
8	potassium	Max 12.0	<5.0
9	Aluminium	Max 0.2	<0.05

*** 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
Service Engineer



CLEANER WATER GREENER TOMORROW



CRYSTALLINE ENVIRONMENTAL SERVICES

CONSULTING SERVICE REPORT

Client Name: SERCO, MIDDLE EAST			
Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	13-12-2020
Sampled By	Crystalline Rep	Location	ADIA - BRC
Sample Type	Potable Water (Hot Outlet)	Sample Point	Mezzanine Floor Washroom

	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	8.13
2	Conductivity at 25°C, $\mu\text{s}/\text{cm}$	----	237
3	Total Dissolved Solids (TDS)	Max 1000	154
4	Odor	Unobjectionable	ND
5	Turbidity (including suspended solids)	4.0	<1.0
6	Calcium Hardness at 25°C	200	61
7	Total Hardness at 25°C	300	72

Inorganic Chemical Parameters

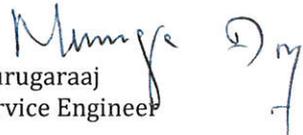
1	Sulphate	Max 250.0	<10
2	Chlorides	Max 250.0	34
3	Iron	Max 0.2	<0.05
4	Copper	Max 1.0	<0.05
5	Zinc	Max 5.0	<0.05
6	Nitrate	Max 50.0	<1.0
7	Nitrite	Max 3.0	<0.05
8	Potassium	Max 12.0	<5.0
9	Aluminium	Max 0.2	<0.05

*** 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
Service Engineer



CLEANER WATER GREENER TOMORROW



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-2012-29158



Request No. : WA-Q-L-2012-04152

Sample No. : WA-S-L-2012-28542

Sampling Date	: 13/12/2020	Report Date.	: 15/12/2020
Analysis Start Date.	: 13/12/2020	Analysis End Date.	: 15/12/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) -Business Recovery Center	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: Not Given	Sampling Method	: APHA 9060 A&B
Temperature °C	: 14	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Ground Floor – Chiller Yard
Sampling Point	: Valve	Preservation	: 4-8°C
Sample Description	: 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
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-2012-29159



Request No. : WA-Q-L-2012-04152

Sample No. : WA-S-L-2012-28543

Sampling Date	: 13/12/2020	Report Date.	: 15/12/2020
Analysis Start Date.	: 13/12/2020	Analysis End Date.	: 15/12/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) -Business Recovery Center	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: Not Given	Sampling Method	: APHA 9060 A&B
Temperature °C	: 14.3	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Ground Floor Chilled Water
Sampling Point	: Valve	Preservation	: 4-8°C
Sample Description	: 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
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-2012-29160



Request No. : WA-Q-L-2012-04152

Sample No. : WA-S-L-2012-28544

Sampling Date	: 13/12/2020	Report Date.	: 15/12/2020
Analysis Start Date.	: 13/12/2020	Analysis End Date.	: 15/12/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) -Business Recovery Center	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: Not Given	Sampling Method	: APHA 9060 A&B
Temperature °C	: 13	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Mezzanine Floor -Chilled Water
Sampling Point	: Valve	Preservation	: 4-8°C
Sample Description	: 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.

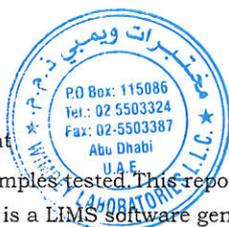
Analyst	Reviewed By	Method Variation
SN	SM	None

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-2012-29172



Request No. : WA-Q-L-2012-04152

Sample No. : WA-S-L-2012-28556

Sampling Date	: 13/12/2020	Report Date.	: 23/12/2020
Analysis Start Date.	: 13/12/2020	Analysis End Date.	: 23/12/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) -Business Recovery Center	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: Not Given	Sampling Method	: BS 7592
Temperature °C	: 14	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Ground Floor – Chiller Yard
Sampling Point	: Valve	Preservation	: 10°C
Sample Description	: Water		

Parameters	Test Methods	Units	Results	Specification
Legionella	ISO 11731: 2017	CFU/L	Not Detected	100CFU/L

Note : Limit of Detection=<20CFU/L

Procedure: WSOP-MB-0051. Filtration, Washing, Heat treatment, Acid treatment followed by Plating on GVPC/BCYE Agar

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-2012-29173



Request No. : WA-Q-L-2012-04152

Sample No. : WA-S-L-2012-28557

Sampling Date	: 13/12/2020	Report Date.	: 23/12/2020
Analysis Start Date.	: 13/12/2020	Analysis End Date.	: 23/12/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) -Business Recovery Center	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: Not Given	Sampling Method	: BS 7592
Temperature °C	: 14.3	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Ground Floor Chilled Water
Sampling Point	: Valve	Preservation	: 10°C
Sample Description	: Water		

Parameters	Test Methods	Units	Results	Specification
Legionella	ISO 11731: 2017	CFU/L	Not Detected	100CFU/L

Note : Limit of Detection=<20CFU/L

Procedure: WSOP-MB-0051. Filtration, Washing, Heat treatment, Acid treatment followed by Plating on GVPC/BCYE Agar

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-2012-29174



Request No. : WA-Q-L-2012-04152

Sample No. : WA-S-L-2012-28558

Sampling Date	: 13/12/2020	Report Date.	: 23/12/2020
Analysis Start Date.	: 13/12/2020	Analysis End Date.	: 23/12/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) -Business Recovery Center	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: Not Given	Sampling Method	: BS 7592
Temperature °C	: 13	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Mezzanine Floor -Chilled Water
Sampling Point	: Valve	Preservation	: 10°C
Sample Description	: Water		

Parameters	Test Methods	Units	Results	Specification
Legionella	ISO 11731: 2017	CFU/L	Not Detected	100CFU/L

Note : Limit of Detection=<20CFU/L

Procedure: WSOP-MB-0051. Filtration, Washing, Heat treatment, Acid treatment followed by Plating on GVPC/BCYE Agar

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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CRYSTALLINE ENVIRONMENTAL SERVICES

CONSULTING TEST REPORT

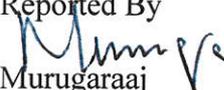
Customer: SERCO MIDDLE EAST	
Project: Abu Dhabi Investment Authority, Abu Dhabi	
Site: ADIA, Business Recovery Center	Sample Point: Ground Floor, Chilled Water
Date: 13-12-2020	Sampled By: Crystalline Representative

CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
pH	9.0 - 10.5	9.89
Conductivity, $\mu\text{s}/\text{cm}$	Max 3500	2680
TDS, ppm	Max 2000	1742
Iron, ppm as Fe	0 - 2.0	0.06
Treatment Residuals		
Nitrite, ppm	> 800	930
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	No action recommended.
Nitrite levels are satisfactory \Rightarrow	No action recommended.

Reported By

Murugaraaj
Service Engineer



CLEANER WATER GREENER TOMORROW



CRYSTALLINE ENVIRONMENTAL SERVICES

CONSULTING TEST REPORT

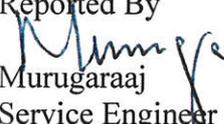
Customer: SERCO MIDDLE EAST	
Project: Abu Dhabi Investment Authority, Abu Dhabi	
Site: ADIA, Business Recovery Center	Sample Point: Mezzanine Floor, Chilled Water
Date: 13-12-2020	Sampled By: Crystalline Representative

CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
pH	9.0 - 10.5	9.77
Conductivity, $\mu\text{s}/\text{cm}$	Max 3500	2716
TDS, ppm	Max 2000	1765
Iron, ppm as Fe	0 - 2.0	0.14
Treatment Residuals		
Nitrite, ppm	> 800	920
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	No action recommended.
Nitrite levels are satisfactory \Rightarrow	No action recommended.

Reported By

Murugaraaj
Service Engineer



CLEANER WATER GREENER TOMORROW



CRYSTALLINE ENVIRONMENTAL SERVICES

CONSULTING TEST REPORT

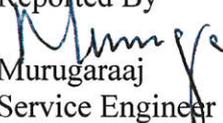
Customer: SERCO MIDDLE EAST	
Project: Abu Dhabi Investment Authority, Abu Dhabi	
Site: ADIA, Business Recovery Center	Sample Point: Ground Floor, Chiller Yard
Date: 13-12-2020	Sampled By: Crystalline Representative

CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
pH	9.0 - 10.5	993
Conductivity, $\mu\text{s}/\text{cm}$	Max 3500	2870
TDS, ppm	Max 2000	1865
Iron, ppm as Fe	0 - 2.0	0.10
Treatment Residuals		
Nitrite, ppm	> 800	960
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	No action recommended.
Nitrite levels are satisfactory \Rightarrow	No action recommended.

Reported By

Murugaraaj
Service Engineer



CLEANER WATER GREENER TOMORROW