



Microbiology Test Report

Customer Details

Report No. WA-R-L-2004-6870

Crystalline Environmental Services



Request No.	: WA-Q-L-2004-1115	Sample No.	: WA-S-L-2004-6717
Sampling Date/time	: 11/4/2020 , 16:15	Report Date.	: 14/4/2020
Analysis Start Date.	: 11/4/2020	Analysis End Date.	: 13/4/2020
Sample Location.	: ADIA HQ, Abu Dhabi	Sampled By	: Shoukth
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0420	Sampling Method	: APHA 9060 A&B
Temperature °C	: 24.1	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Basement Clinic - Cold Water
Sampling Point	: Tap Water	Preservation	: 4-8°C
Sample Description	: Water		

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B,H& I 23rd Ed. 2017	CFU/100 ml	Not Detected	Zero/100ml
Faecal Coliforms	APHA 9222 D 23rd Ed. 2017	CFU/100 ml	Not Detected	Zero/100ml
Heterotrophic plate count	APHA 9215 B 23rd Ed. 2017	CFU/ml	50	100CFU/ml#
Pseudomonas aeruginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250 ml	Not Detected	Zero/100ml#
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100 ml	Not Detected	Zero/100ml

Note : Not Detected=<1CFU

#Limit based on HAAD/HED/ST/0012/HS_EHSMS, Department of Health Abu Dhabi, water quality version 1.0

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
JY	SM	None

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

Signed for and on behalf of Wimpey Laboratories



Dr. Suresh Murugan Ph.D

Senior Microbiologist

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Microbiology Test Report

Customer Details

Report No. WA-R-L-2004-6871

Crystalline Environmental Services



Request No.	: WA-Q-L-2004-1115	Sample No.	: WA-S-L-2004-6718
Sampling Date/time	: 11/4/2020 , 16:15	Report Date.	: 14/4/2020
Analysis Start Date.	: 11/4/2020	Analysis End Date.	: 13/4/2020
Sample Location.	: ADIA HQ, Abu Dhabi	Sampled By	: Shoukth
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0420	Sampling Method	: APHA 9060 A&B
Temperature °C	: 26	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Basement Shower Room - Cold Water
Sampling Point	: Tap Water	Preservation	: 4-8°C
Sample Description	: Water		

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B,H& I 23rd Ed. 2017	CFU/100 ml	Not Detected	Zero/100ml
Faecal Coliforms	APHA 9222 D 23rd Ed. 2017	CFU/100 ml	Not Detected	Zero/100ml
Heterotrophic plate count	APHA 9215 B 23rd Ed. 2017	CFU/ml	60	100CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250 ml	Not Detected	Zero
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100 ml	Not Detected	Zero/100ml

Note : Not Detected= \leq 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
JY	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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Senior Microbiologist

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Microbiology Test Report

Customer Details

Report No. WA-R-L-2004-6876

Crystalline Environmental Services



Request No.	: WA-Q-L-2004-1115	Sample No.	: WA-S-L-2004-6723
Sampling Date/time	: 11/4/2020 , 16:15	Report Date.	: 14/4/2020
Analysis Start Date.	: 11/4/2020	Analysis End Date.	: 13/4/2020
Sample Location.	: ADIA HQ, Abu Dhabi	Sampled By	: Shoukth
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0420	Sampling Method	: APHA 9060 A&B
Temperature °C	: 23	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Mezzanine Floor, Kitchen Cold Water
Sampling Point	: Tap Water	Preservation	: 4-8°C
Sample Description	: Water		

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B,H& I 23rd Ed. 2017	CFU/100 ml	Not Detected	Zero/100ml
Faecal Coliforms	APHA 9222 D 23rd Ed 2017	CFU/100 ml	Not Detected	Zero/100ml
Heterotrophic plate count	APHA 9215 B 23rd Ed 2017	CFU/ml	40	100CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250 ml	Not Detected	Zero
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100 ml	Not Detected	Zero/100ml

Note : Not Detected= \leq 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
JY	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 Environmental Services

Report No. WA-R-L-2004-6878



Request No.	: WA-Q-L-2004-1115	Sample No.	: WA-S-L-2004-6725
Sampling Date/time	: 11/4/2020 , 16:15	Report Date.	: 14/4/2020
Analysis Start Date.	: 11/4/2020	Analysis End Date.	: 13/4/2020
Sample Location.	: ADIA HQ, Abu Dhabi	Sampled By	: Shoukth
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0420	Sampling Method	: APHA 9060 A&B
Temperature °C	: 23.3	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: 16th Floor Wing A Pantry Cold Water
Sampling Point	: Tap Water	Preservation	: 4-8°C
Sample Description	: Water		

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B,H& I 23rd Ed. 2017	CFU/100 ml	Not Detected	Zero/100ml
Faecal Coliforms	APHA 9222 D 23rd Ed. 2017	CFU/100 ml	Not Detected	Zero/100ml
Heterotrophic plate count	APHA 9215 B 23rd Ed. 2017	CFU/ml	90	100CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250 ml	Not Detected	Zero
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100 ml	Not Detected	Zero/100ml

Note : Not Detected= \leq 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
JY	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

Report No. WA-R-L-2004-6880

Crystalline Environmental Services



Request No.	: WA-Q-L-2004-1115	Sample No.	: WA-S-L-2004-6727
Sampling Date/time	: 11/4/2020 , 16:15	Report Date.	: 14/4/2020
Analysis Start Date.	: 11/4/2020	Analysis End Date.	: 13/4/2020
Sample Location.	: ADIA HQ, Abu Dhabi	Sampled By	: Shoukth
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0420	Sampling Method	: APHA 9060 A&B
Temperature °C	: 22.1	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: 16th Floor Wing B Pantry Cold Water
Sampling Point	: Tap Water	Preservation	: 4-8°C
Sample Description	: Water		

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B,H& I 23rd Ed. 2017	CFU/100 ml	Not Detected	Zero/100ml
Faecal Coliforms	APHA 9222 D 23rd Ed. 2017	CFU/100 ml	Not Detected	Zero/100ml
Heterotrophic plate count	APHA 9215 B 23rd Ed. 2017	CFU/ml	30	100CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250 ml	Not Detected	Zero
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100 ml	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
JY	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

Report No. WA-R-L-2004-6883

Crystalline Environmental Services



Request No.	: WA-Q-L-2004-1115	Sample No.	: WA-S-L-2004-6730
Sampling Date/time	: 11/4/2020 , 16:15	Report Date.	: 14/4/2020
Analysis Start Date.	: 11/4/2020	Analysis End Date.	: 13/4/2020
Sample Location.	: ADIA HQ, Abu Dhabi	Sampled By	: Shoukth
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0420	Sampling Method	: APHA 9060 A&B
Temperature °C	: 24.9	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: 31st Floor Wing B Pantry Cold 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/100 ml	Not Detected	Zero/100ml
Faecal Coliforms	APHA 9222 D 23rd Ed. 2017	CFU/100 ml	Not Detected	Zero/100ml
Heterotrophic plate count	APHA 9215 B 23rd Ed. 2017	CFU/ml	90	100CFU/ml
Pseudomonas aeroginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250 ml	Not Detected	Zero
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100 ml	Not Detected	Zero/100ml

Note : Not Detected= \leq 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
JY	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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Senior Microbiologist

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Microbiology Test Report

Customer Details

Crystalline Environmental Services

Report No. WA-R-L-2004-6885



Request No.	: WA-Q-L-2004-1115	Sample No.	: WA-S-L-2004-6732
Sampling Date/time	: 11/4/2020 , 16:15	Report Date.	: 14/4/2020
Analysis Start Date.	: 11/4/2020	Analysis End Date.	: 13/4/2020
Sample Location.	: ADIA HQ, Abu Dhabi	Sampled By	: Shoukth
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0421	Sampling Method	: APHA 9060 A&B
Temperature °C	: 22.4	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: 32 Floor Wing A Pantry Cold Water
Sampling Point	: Tap Water	Preservation	: 4-8°C
Sample Description	: Water		

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B,H& I 23rd Ed. 2017	CFU/100 ml	Not Detected	Zero/100ml
Faecal Coliforms	APHA 9222 D 23rd Ed. 2017	CFU/100 ml	Not Detected	Zero/100ml
Heterotrophic plate count	APHA 9215 B 23rd Ed. 2017	CFU/ml	50	100CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250 ml	Not Detected	Zero
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100 ml	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
JY	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

Report No. WA-R-L-2004-6886

Crystalline Environmental Services



Request No.	: WA-Q-L-2004-1115	Sample No.	: WA-S-L-2004-6733
Sampling Date/time	: 11/4/2020 , 16:15	Report Date.	: 14/4/2020
Analysis Start Date.	: 11/4/2020	Analysis End Date.	: 13/4/2020
Sample Location.	: ADIA HQ, Abu Dhabi	Sampled By	: Shoukth
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0421	Sampling Method	: APHA 9060 A&B
Temperature °C	: 23.5	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: 33 Floor Wing A Pantry Cold Water
Sampling Point	: Tap Water	Preservation	: 4-8°C
Sample Description	: Water		

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B,H& I 23rd Ed. 2017	CFU/100 ml	Not Detected	Zero/100ml
Faecal Coliforms	APHA 9222 D 23rd Ed. 2017	CFU/100 ml	Not Detected	Zero/100ml
Heterotrophic plate count	APHA 9215 B 23rd Ed. 2017	CFU/ml	50	100CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250 ml	Not Detected	Zero
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100 ml	Not Detected	Zero/100ml

Note : Not Detected= \leq 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
JY	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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Senior Microbiologist



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Microbiology Test Report

Customer Details

Report No. WA-R-L-2004-6887

Crystalline Environmental Services



Request No.	: WA-Q-L-2004-1115	Sample No.	: WA-S-L-2004-6734
Sampling Date/time	: 11/4/2020 , 16:15	Report Date.	: 14/4/2020
Analysis Start Date.	: 11/4/2020	Analysis End Date.	: 13/4/2020
Sample Location.	: ADIA HQ, Abu Dhabi	Sampled By	: Shoukth
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0421	Sampling Method	: APHA 9060 A&B
Temperature °C	: 23.9	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: 34 Floor Wing A Pantry Cold Water
Sampling Point	: Tap Water	Preservation	: 4-8°C
Sample Description	: Water		

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B,H& I 23rd Ed. 2017	CFU/100 ml	Not Detected	Zero/100ml
Faecal Coliforms	APHA 9222 D 23rd Ed. 2017	CFU/100 ml	Not Detected	Zero/100ml
Heterotrophic plate count	APHA 9215 B 23rd Ed. 2017	CFU/ml	50	100CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250 ml	Not Detected	Zero
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100 ml	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
JY	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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Senior Microbiologist

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Microbiology Test Report

Customer Details

Report No. WA-R-L-2004-6888

Crystalline Environmental Services



Request No.	: WA-Q-L-2004-1115	Sample No.	: WA-S-L-2004-6735
Sampling Date/time	: 11/4/2020 , 16:15	Report Date.	: 14/4/2020
Analysis Start Date.	: 11/4/2020	Analysis End Date.	: 13/4/2020
Sample Location.	: ADIA HQ, Abu Dhabi	Sampled By	: Shoukth
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0421	Sampling Method	: APHA 9060 A&B
Temperature °C	: 23.2	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: 35 Floor Wing A Pantry Cold Water
Sampling Point	: Tap Water	Preservation	: 4-8°C
Sample Description	: Water		

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B,H& I 23rd Ed. 2017	CFU/100 ml	Not Detected	Zero/100ml
Faecal Coliforms	APHA 9222 D 23rd Ed. 2017	CFU/100 ml	Not Detected	Zero/100ml
Heterotrophic plate count	APHA 9215 B 23rd Ed. 2017	CFU/ml	90	100CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250 ml	Not Detected	Zero
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100 ml	Not Detected	Zero/100ml

Note : Not Detected= \leq 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
JY	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

Report No. WA-R-L-2004-6889

Crystalline Environmental Services



Request No.	: WA-Q-L-2004-1115	Sample No.	: WA-S-L-2004-6736
Sampling Date/time	: 11/4/2020 , 16:15	Report Date.	: 14/4/2020
Analysis Start Date.	: 11/4/2020	Analysis End Date.	: 13/4/2020
Sample Location.	: ADIA HQ, Abu Dhabi	Sampled By	: Shoukth
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0421	Sampling Method	: APHA 9060 A&B
Temperature °C	: 22.9	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: 36 Floor Wing A Pantry Cold Water
Sampling Point	: Tap Water	Preservation	: 4-8°C
Sample Description	: Water		

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B,H& I 23rd Ed. 2017	CFU/100 ml	Not Detected	Zero/100ml
Faecal Coliforms	APHA 9222 D 23rd Ed. 2017	CFU/100 ml	Not Detected	Zero/100ml
Heterotrophic plate count	APHA 9215 B 23rd Ed. 2017	CFU/ml	40	100CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250 ml	Not Detected	Zero
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100 ml	Not Detected	Zero/100ml

Note : Not Detected= \leq 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
JY	SM	None

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

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Senior Microbiologist



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Microbiology Test Report

Customer Details

Report No. WA-R-L-2004-6890

Crystalline Environmental Services



Request No.	: WA-Q-L-2004-1115	Sample No.	: WA-S-L-2004-6737
Sampling Date/time	: 11/4/2020 , 16:15	Report Date.	: 14/4/2020
Analysis Start Date.	: 11/4/2020	Analysis End Date.	: 13/4/2020
Sample Location.	: ADIA HQ, Abu Dhabi	Sampled By	: Shoukth
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0421	Sampling Method	: APHA 9060 A&B
Temperature °C	: 23.4	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: 36 Floor Shower Room Cold Water
Sampling Point	: Shower Head	Preservation	: 4-8°C
Sample Description	: Water		

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B,H& I 23rd Ed. 2017	CFU/100 ml	Not Detected	--
Faecal Coliforms	APHA 9222 D 23rd Ed. 2017	CFU/100 ml	Not Detected	--
Heterotrophic plate count	APHA 9215 B 23rd Ed. 2017	CFU/ml	90	500CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250 ml	Not Detected	--
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100 ml	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
JY	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 Environmental Services

Report No. WA-R-L-2004-6944



Request No.	: WA-Q-L-2004-1126	Sample No.	: WA-S-L-2004-6785
Sampling Date/time	: 12/4/2020 , 16:35	Report Date.	: 14/4/2020
Analysis Start Date.	: 12/4/2020	Analysis End Date.	: 14/4/2020
Sample Location.	: ADIA Car Parking, Abu Dhabi	Sampled By	: Shoukth
Temperature °C	: 29	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Basement 03 Mess Hall, Cold Water
Sampling Point	: Tap Water	Preservation	: 4-8°C
Sample Description	: Water	Sample Submitted as	: Water
Sample Identification	: Not Applicable	Sampling Method	: APHA 9060 A&B
Sample Certificate No	: 0422		

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	30	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
SM	SM	None

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

Signed for and on behalf of Wimpey Laboratories



Dr. Suresh Murugan Ph.D

Senior Microbiologist

Test results relate only to the samples tested.

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Microbiology Test Report

Report No. WA-R-L-2004-6954

Customer Details

Crystalline Environmental Services



Request No.	: WA-Q-L-2004-1126	Sample No.	: WA-S-L-2004-6795
Sampling Date/time	: 12/4/2020 , 16:35	Report Date.	: 14/4/2020
Analysis Start Date.	: 12/4/2020	Analysis End Date.	: 14/4/2020
Sample Location.	: ADIA Car Parking, Abu Dhabi	Sampled By	: Shoukth
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0422	Sampling Method	: APHA 9060 A&B
Temperature °C	: 28.9	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: 01st Floor Driver Room, Cold Water
Sampling Point	: Tap Water	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	60	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= \leq 1CFU

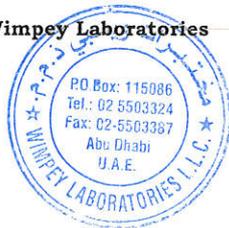
Limits based on RSB Water Quality Regulation 2014. Schedule 1. Table F For Microbiological Parameters.

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

Analyst	Reviewed By	Method Variation
SM	SM	None

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

Signed for and on behalf of Wimpey Laboratories



Dr. Suresh Murugan Ph.D

Senior Microbiologist

Test results relate only to the samples tested.

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Form No: WARF-MB-01 Issue No.:01 Rev No:00 Issued Date:22-01-2020

- End of Text -

POTABLE WATER ANALYSIS REPORT

Client Name: SERCO, MIDDLE EAST			
Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	11-04-2020
Sampled By	Crystalline Rep	Location	ADIA - HQ
Sample Type	Potable Water (Cold Outlet)	Sample Point	Basement - Clinic

	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	7.91
2	Conductivity at 25°C, $\mu\text{s}/\text{cm}$	----	199
3	Total Dissolved Solids (TDS)	Max 1000	129
4	Odor	Unobjectionable	ND
5	Turbidity (including suspended solids)	4.0	<1.0
6	Residual Chlorine	0.2 - 0.5	0.15
7	Calcium Hardness at 25°C	200	53
8	Total Hardness at 25°C	300	59

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	Residual chlorine level is low, kindly maintain the level with in the control limit
3	Calcium hardness and Total Hardness levels are satisfactory
4	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:	11-04-2020
Sampled By	Crystalline Rep	Location	ADIA - HQ
Sample Type	Potable Water (Cold Outlet)	Sample Point	Basement Shower Room

	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	7.82
2	Conductivity at 25°C, µs/cm	----	194
3	Total Dissolved Solids (TDS)	Max 1000	126
4	Odor	Unobjectionable	ND
5	Turbidity (including suspended solids)	4.0	<1.0
6	Residual Chlorine	0.2 - 0.5	0.16
7	Calcium Hardness at 25°C	200	55
8	Total Hardness at 25°C	300	59

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 CaCO₃ except pH and conductivity (µmhos).

COMMENTS AND RECOMMENDATIONS

1	PH, Conductivity & TDS levels are normal
2	Residual chlorine level is low, kindly maintain the level with in the control limit
3	Calcium hardness and Total Hardness levels are satisfactory
4	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:	11-04-2020
Sampled By	Crystalline Rep	Location	ADIA - HQ
Sample Type	Potable Water (Cold Outlet)	Sample Point	HQ Mezzanine Floor-Kitchen

	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	7.94
2	Conductivity at 25°C, µs/cm	----	192
3	Total Dissolved Solids (TDS)	Max 1000	124
4	Odor	Unobjectionable	ND
5	Turbidity (including suspended solids)	4.0	<1.0
6	Residual Chlorine	0.2 - 0.5	0.14
7	Calcium Hardness at 25°C	200	54
8	Total Hardness at 25°C	300	59

Inorganic Chemical Parameters

1	Sulphate	Max 250.0	<10
2	Chlorides	Max 250.0	41
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, kindly maintain the level with in the control limit
3	Calcium hardness and Total Hardness levels are satisfactory
4	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:	11-04-2020
Sampled By	Crystalline Rep	Location	ADIA - HQ
Sample Type	Potable Water (Cold Outlet)	Sample Point	Wing 16 A Pantry

	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	7.88
2	Conductivity at 25°C, µs/cm	----	190
3	Total Dissolved Solids (TDS)	Max 1000	123
4	Odor	Unobjectionable	ND
5	Turbidity (including suspended solids)	4.0	<1.0
6	Residual Chlorine	0.2 - 0.5	0.15
7	Calcium Hardness at 25°C	200	55
8	Total Hardness at 25°C	300	62

Inorganic Chemical Parameters

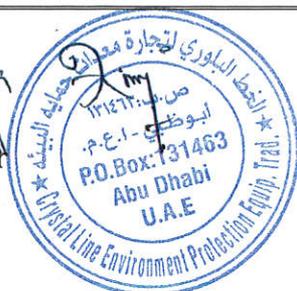
1	Sulphate	Max 250.0	<10
2	Chlorides	Max 250.0	45
3	Iron	Max 0.2	<0.05
4	Copper	Max 1.0	<0.05
5	Zinc	Max 5.0	<0.05
6	Nitrate	Max 50.0	<1.0
7	Nitrite	Max 3.0	<0.05
8	potassium	Max 12.0	<5.0
9	Aluminium	Max 0.2	<0.05

*** 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	Residual chlorine level is low, kindly maintain the level with in the control limit
3	Calcium hardness and Total Hardness levels are satisfactory
4	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:	11-04-2020
Sampled By	Crystalline Rep	Location	ADIA - HQ
Sample Type	Potable Water (Cold Outlet)	Sample Point	Wing 16 B Pantry

	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	7.86
2	Conductivity at 25°C, µs/cm	----	188
3	Total Dissolved Solids (TDS)	Max 1000	122
4	Odor	Unobjectionable	ND
5	Turbidity (including suspended solids)	4.0	<1.0
6	Residual Chlorine	0.2 – 0.5	0.08
7	Calcium Hardness at 25°C	200	56
8	Total Hardness at 25°C	300	58

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, kindly maintain the level with in the control limit
3	Calcium hardness and Total Hardness levels are satisfactory
4	All inorganic parameters are within the control limit

Reported By,
P. Murugaraaj
Murugaraaj
Service Engineer



POTABLE WATER ANALYSIS REPORT

Client Name: SERCO, MIDDLE EAST			
Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	11-04-2020
Sampled By	Crystalline Rep	Location	ADIA - HQ
Sample Type	Potable Water (Cold Outlet)	Sample Point	Wing 31 B Pantry

	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	7.79
2	Conductivity at 25°C, µs/cm	----	197
3	Total Dissolved Solids (TDS)	Max 1000	128
4	Odor	Unobjectionable	ND
5	Turbidity (including suspended solids)	4.0	<1.0
6	Residual Chlorine	0.2 - 0.5	0.19
7	Calcium Hardness at 25°C	200	54
8	Total Hardness at 25°C	300	58

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	Residual chlorine level is low, kindly maintain the level with in the control limit
3	Calcium hardness and Total Hardness levels are satisfactory
4	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:	11-04-2020
Sampled By	Crystalline Rep	Location	ADIA - HQ
Sample Type	Potable Water (Cold Outlet)	Sample Point	L 36 Shower Room

	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	7.99
2	Conductivity at 25°C, µs/cm	----	199
3	Total Dissolved Solids (TDS)	Max 1000	129
4	Odor	Unobjectionable	ND
5	Turbidity (including suspended solids)	4.0	<1.0
6	Residual Chlorine	0.2 - 0.5	0.17
7	Calcium Hardness at 25°C	200	51
8	Total Hardness at 25°C	300	56
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, kindly maintain the level with in the control limit
3	Calcium hardness and Total Hardness levels are satisfactory
4	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:	11-04-2020
Sampled By	Crystalline Rep	Location	ADIA - HQ
Sample Type	Potable Water (Cold Outlet)	Sample Point	L 36 Pantry

	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	7.93
2	Conductivity at 25°C, µs/cm	----	195
3	Total Dissolved Solids (TDS)	Max 1000	126
4	Odor	Unobjectionable	ND
5	Turbidity (including suspended solids)	4.0	<1.0
6	Residual Chlorine	0.2 - 0.5	0.16
7	Calcium Hardness at 25°C	200	52
8	Total Hardness at 25°C	300	59

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

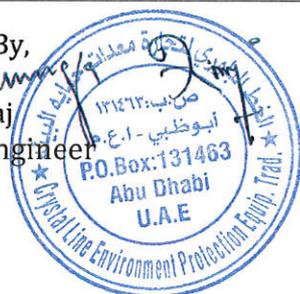
*** All test results expressed in parts per million (ppm) as CaCO₃ except pH and conductivity (µmhos).

COMMENTS AND RECOMMENDATIONS

1	PH, Conductivity & TDS levels are normal
2	Residual chlorine level is low, kindly maintain the level with in the control limit
3	Calcium hardness and Total Hardness levels are satisfactory
4	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:	12-04-2020
Sampled By	Crystalline Rep	Location	ADIA - CAR PARKING
Sample Type	Potable Water (Cold Outlet)	Sample Point	B3 - Mess Hall

	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	7.86
2	Conductivity at 25°C, µs/cm	----	196
3	Total Dissolved Solids (TDS)	Max 1000	127
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	56
8	Total Hardness at 25°C	300	61

Inorganic Chemical Parameters

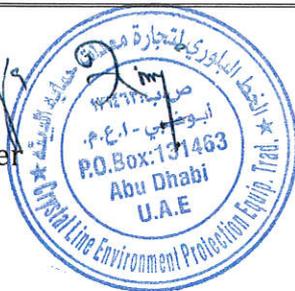
1	Sulphate	Max 250.0	<10
2	Chlorides	Max 250.0	54
3	Iron	Max 0.2	<0.05
4	Copper	Max 1.0	<0.05
5	Zinc	Max 5.0	<0.05
6	Nitrate	Max 50.0	<1.0
7	Nitrite	Max 3.0	<0.05
8	potassium	Max 12.0	<5.0
9	Aluminium	Max 0.2	<0.05

*** 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, kindly maintain the level with in the control limit
3	Calcium hardness and Total Hardness levels are satisfactory
4	All inorganic parameters are within the control limit

Reported By,
P. Murugaraaj
Murugaraaj
Service Engineer



POTABLE WATER ANALYSIS REPORT

Client Name: SERCO, MIDDLE EAST			
Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	12-04-2020
Sampled By	Crystalline Rep	Location	ADIA - CAR PARKING
Sample Type	Potable Water (Cold Outlet)	Sample Point	L1- Driver Shower Room

	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	8.24
2	Conductivity at 25°C, µs/cm	----	221
3	Total Dissolved Solids (TDS)	Max 1000	143
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	48
8	Total Hardness at 25°C	300	54

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	Residual chlorine level is low, kindly maintain the level with in the control limit
3	Calcium hardness and Total Hardness levels are satisfactory
4	All inorganic parameters are within the control limit

Reported By,
Murugaraaj
Service Engineer

