



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-2012-29181



Request No. : WA-Q-L-2012-04153

Sample No. : WA-S-L-2012-28565

Sampling Date	: 13/12/2020	Report Date.	: 16/12/2020
Analysis Start Date.	: 13/12/2020	Analysis End Date.	: 15/12/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) – Head Quarters	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	: Basement -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	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
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
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-2012-29190



Request No. : WA-Q-L-2012-04153

Sample No. : WA-S-L-2012-28574

Sampling Date	: 13/12/2020	Report Date.	: 16/12/2020
Analysis Start Date.	: 13/12/2020	Analysis End Date.	: 15/12/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) – Head Quarters	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: Not Given	Sampling Method	: APHA 9060 A&B
Site Observation	: Clear	Sampling Container	: Sterile Plastic Bottle
Source of Sample	: 16th Floor Tertiary Pump Room – 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
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
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-2012-29192



Request No. : WA-Q-L-2012-04153

Sample No. : WA-S-L-2012-28576

Sampling Date	: 13/12/2020	Report Date.	: 16/12/2020
Analysis Start Date.	: 13/12/2020	Analysis End Date.	: 15/12/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) – Head Quarters	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	: 32 Floor Wing B Plant Room – 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 aeroginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250ml	Not Detected	-
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100ml	Not Detected	-

Note : Not Detected= \leq 1CFU

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

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

Analyst	Reviewed By	Method Variation
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

Head of Microbiology Department

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

Report No. WA-R-L-2012-29201



Request No. : WA-Q-L-2012-04153

Sample No. : WA-S-L-2012-28585

Sampling Date	: 13/12/2020	Report Date.	: 16/12/2020
Analysis Start Date.	: 13/12/2020	Analysis End Date.	: 15/12/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) – Head Quarters	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	: 15	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: 37th Floor Plant Room 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
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

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-2012-29210



Request No. : WA-Q-L-2012-04153

Sample No. : WA-S-L-2012-28594

Sampling Date	: 13/12/2020	Report Date.	: 24/12/2020
Analysis Start Date.	: 13/12/2020	Analysis End Date.	: 23/12/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) – Head Quarters	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	: Basement -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 limit.

Analyst	Reviewed By	Method Variation
SM	SM	None

Key Words :CFU-Colony Forming Units, ISO-International Organization for Standardization, BS-British Standards.

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-2012-29219



Request No. : WA-Q-L-2012-04153

Sample No. : WA-S-L-2012-28603

Sampling Date	: 13/12/2020	Report Date.	: 24/12/2020
Analysis Start Date.	: 13/12/2020	Analysis End Date.	: 23/12/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) – Head Quarters	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: Not Given	Sampling Method	: BS 7592
Site Observation	: Clear	Sampling Container	: Sterile Plastic Bottle
Source of Sample	: 16th Floor Tertiary Pump Room – 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	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.

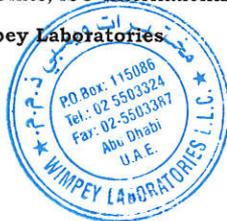
Limits based on RSB Water Quality Regulation 2014. Schedule 1. Table F For Microbiological Parameters.

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

Analyst	Reviewed By	Method Variation
SM	SM	None

Key Words :CFU-Colony Forming Units, ISO-International Organization for Standardization, BS-British Standards.

Signed for and on behalf of Wimpey Laboratories



Dr. Suresh Murugan Ph.D

Head of Microbiology Department

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

Report No. WA-R-L-2012-29221



Request No. : WA-Q-L-2012-04153

Sample No.: WA-S-L-2012-28605

Sampling Date	: 13/12/2020	Report Date.	: 24/12/2020
Analysis Start Date.	: 13/12/2020	Analysis End Date.	: 23/12/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) - Head Quarters	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	: 32 Floor Wing B Plant Room - 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 limit.

Analyst	Reviewed By	Method Variation
SM	SM	None

Key Words :CFU-Colony Forming Units, ISO-International Organization for Standardization, BS-British Standards.

Signed for and on behalf of Wimpey Laboratories

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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-2012-29230



Request No. : WA-Q-L-2012-04153

Sample No.: WA-S-L-2012-28614

Sampling Date	: 13/12/2020	Report Date.	: 24/12/2020
Analysis Start Date.	: 13/12/2020	Analysis End Date.	: 23/12/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) – Head Quarters	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: Not Given	Sampling Method	: BS 7592
Temperature °C	: 15	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: 37th Floor Plant Room 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
SM	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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Microbiology Test Report

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Crystalline Cleaning & Environmental Services

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

Report No. WA-R-L-2012-29523



Request No. : WA-Q-L-2012-04195

Sample No. : WA-S-L-2012-28884

Sampling Date	: 16/12/2020	Report Date.	: 20/12/2020
Analysis Start Date.	: 16/12/2020	Analysis End Date.	: 19/12/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) -Car Parking	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	: Basement 02, Chilled Water
Sampling Point	: Valve	Preservation	: 4-8°C
Sample Description	: Chilled Water		

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B,H& I 23rd Ed. 2017	CFU/100ml	Not Detected	-
Faecal Coliforms	APHA 9222 D 23rd Ed. 2017	CFU/100ml	Not Detected	-
Heterotrophic plate count	APHA 9215 B 23rd Ed. 2017	CFU/ml	Not Detected	10000CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250ml	Not Detected	-
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100ml	Not Detected	-

Note : Not Detected=<1CFU

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

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

Analyst	Reviewed By	Method Variation
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

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Crystalline Cleaning & Environmental Services

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

Report No. WA-R-L-2012-29524



Request No. : WA-Q-L-2012-04195

Sample No. : WA-S-L-2012-28885

Sampling Date	: 16/12/2020	Report Date.	: 20/12/2020
Analysis Start Date.	: 16/12/2020	Analysis End Date.	: 19/12/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) -Car Parking	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	: GF Secondary Pump Room – Chilled Water
Sampling Point	: Valve	Preservation	: 4-8°C
Sample Description	: Chilled Water		

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B,H& I 23rd Ed. 2017	CFU/100ml	Not Detected	-
Faecal Coliforms	APHA 9222 D 23rd Ed. 2017	CFU/100ml	Not Detected	-
Heterotrophic plate count	APHA 9215 B 23rd Ed. 2017	CFU/ml	Not Detected	10000CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250ml	Not Detected	-
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100ml	Not Detected	-

Note : Not Detected= \leq 1CFU

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

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

Analyst	Reviewed By	Method Variation
SN	SM	None

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

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Dr. Suresh Murugan Ph.D
Head of Microbiology Department



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Microbiology Test Report

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Crystalline Cleaning & Environmental Services

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

Report No. : WA-R-L-2012-29525



Request No. : WA-Q-L-2012-04195

Sample No. : WA-S-L-2012-28886

Sampling Date	: 16/12/2020	Report Date.	: 20/12/2020
Analysis Start Date.	: 16/12/2020	Analysis End Date.	: 19/12/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) -Car Parking	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	: 13.7	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: LG Chiller Plant Room – Chilled Water
Sampling Point	: Valve	Preservation	: 4-8°C
Sample Description	: Chilled Water		

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B,H& I 23rd Ed. 2017	CFU/100ml	Not Detected	-
Faecal Coliforms	APHA 9222 D 23rd Ed. 2017	CFU/100ml	Not Detected	-
Heterotrophic plate count	APHA 9215 B 23rd Ed. 2017	CFU/ml	Not Detected	10000CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250ml	Not Detected	-
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100ml	Not Detected	-

Note : Not Detected= \leq 1CFU

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

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

Analyst	Reviewed By	Method Variation
SN	SM	None

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

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Head of Microbiology Department



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

Report No. : WA-R-L-2012-29526



Request No. : WA-Q-L-2012-04195

Sample No. : WA-S-L-2012-28887

Sampling Date	: 16/12/2020	Report Date.	: 20/12/2020
Analysis Start Date.	: 16/12/2020	Analysis End Date.	: 19/12/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) -Car Parking	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	: LG Chiller Plant Room- Chiller Yard (Water Cooled)
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= \leq 1CFU

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

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

Analyst	Reviewed By	Method Variation
SN	SM	None

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

Signed for and on behalf of Wimpey Laboratories

Dr. Suresh Murugan Ph.D

Head of Microbiology Department



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

Report No. WA-R-L-2012-29529



Request No. : WA-Q-L-2012-04195

Sample No. : WA-S-L-2012-28890

Sampling Date	: 16/12/2020	Report Date.	: 20/12/2020
Analysis Start Date.	: 16/12/2020	Analysis End Date.	: 19/12/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) -Car Parking	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	: 06th Floor Chilled Water
Sampling Point	: Valve	Preservation	: 4-8°C
Sample Description	: Chilled Water		

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B,H& I 23rd Ed. 2017	CFU/100ml	Not Detected	-
Faecal Coliforms	APHA 9222 D 23rd Ed. 2017	CFU/100ml	Not Detected	-
Heterotrophic plate count	APHA 9215 B 23rd Ed. 2017	CFU/ml	Not Detected	10000CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250ml	Not Detected	-
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100ml	Not Detected	-

Note : Not Detected=<1CFU

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

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

Analyst	Reviewed By	Method Variation
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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- End of Text -



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-2012-29534



Request No. : WA-Q-L-2012-04195

Sample No. : WA-S-L-2012-28895

Sampling Date	: 16/12/2020	Report Date.	: 20/12/2020
Analysis Start Date.	: 16/12/2020	Analysis End Date.	: 19/12/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) -Car Parking	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	: 16	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Roof Chiller Plant Room Chilled Water (Air Cooled)
Sampling Point	: Valve	Preservation	: 4-8°C
Sample Description	: Chilled Water		

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B,H& I 23rd Ed. 2017	CFU/100ml	Not Detected	-
Faecal Coliforms	APHA 9222 D 23rd Ed. 2017	CFU/100ml	Not Detected	-
Heterotrophic plate count	APHA 9215 B 23rd Ed. 2017	CFU/ml	Not Detected	10000CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250ml	Not Detected	-
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100ml	Not Detected	-

Note : Not Detected=<1CFU

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

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

Analyst	Reviewed By	Method Variation
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-2012-29542



Request No. : WA-Q-L-2012-04195

Sample No. : WA-S-L-2012-28903

Sampling Date	: 16/12/2020	Report Date.	: 26/12/2020
Analysis Start Date.	: 16/12/2020	Analysis End Date.	: 26/12/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) -Car Parking	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	: Basement 02, Chilled Water
Sampling Point	: Valve	Preservation	: 10°C
Sample Description	: Chilled 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-2012-29543



Request No. : WA-Q-L-2012-04195

Sample No. : WA-S-L-2012-28904

Sampling Date	: 16/12/2020	Report Date.	: 26/12/2020
Analysis Start Date.	: 16/12/2020	Analysis End Date.	: 26/12/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) -Car Parking	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	: GF Secondary Pump Room – Chilled Water
Sampling Point	: Valve	Preservation	: 10°C
Sample Description	: Chilled 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-2012-29544



Request No. : WA-Q-L-2012-04195

Sample No. : WA-S-L-2012-28905

Sampling Date	: 16/12/2020	Report Date.	: 26/12/2020
Analysis Start Date.	: 16/12/2020	Analysis End Date.	: 26/12/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) -Car Parking	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: Not Given	Sampling Method	: BS 7592
Temperature °C	: 13.7	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: LG Chiller Plant Room - Chilled Water
Sampling Point	: Valve	Preservation	: 10°C
Sample Description	: Chilled 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-2012-29545



Request No. : WA-Q-L-2012-04195

Sample No. : WA-S-L-2012-28906

Sampling Date	: 16/12/2020	Report Date.	: 26/12/2020
Analysis Start Date.	: 16/12/2020	Analysis End Date.	: 26/12/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) -Car Parking	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	: LG Chiller Plant Room- Chiller Yard (Water Cooled)
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-2012-29548



Request No. : WA-Q-L-2012-04195

Sample No. : WA-S-L-2012-28909

Sampling Date	: 16/12/2020	Report Date.	: 26/12/2020
Analysis Start Date.	: 16/12/2020	Analysis End Date.	: 26/12/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) -Car Parking	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	: 06th Floor Chilled Water
Sampling Point	: Valve	Preservation	: 10°C
Sample Description	: Chilled 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-2012-29553



Request No. : WA-Q-L-2012-04195

Sample No. : WA-S-L-2012-28914

Sampling Date	: 16/12/2020	Report Date.	: 26/12/2020
Analysis Start Date.	: 16/12/2020	Analysis End Date.	: 26/12/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) -Car Parking	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: Not Given	Sampling Method	: BS 7592
Temperature °C	: 16	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Roof Chiller Plant Room Chilled Water (Air Cooled)
Sampling Point	: Valve	Preservation	: 10°C
Sample Description	: Chilled 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

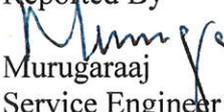
Customer: SERCO MIDDLE EAST	
Project: Abu Dhabi Investment Authority, Abu Dhabi	
Site: ADIA, HQ	Sample Point: HQ, Basement, Chilled Water
Date: 13-12-2020	Sampled By: Crystalline Representative

CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
pH	9.0 - 10.5	10.14
Conductivity, $\mu\text{s}/\text{cm}$	Max 3500	1870
TDS, ppm	Max 2000	1215
Iron, ppm as Fe	0 - 2.0	0.13
Treatment Residuals		
Nitrite, ppm	> 800	820
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

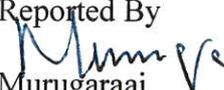
Customer: SERCO MIDDLE EAST	
Project: Abu Dhabi Investment Authority, Abu Dhabi	
Site: ADIA, HQ	Sample Point: HQ, 16 th Floor, Tertiary Pump Room, Chilled Water
Date: 13-12-2020	Sampled By: Crystalline Representative

CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
pH	9.0 - 10.5	9.84
Conductivity, $\mu\text{s}/\text{cm}$	Max 3500	2084
TDS, ppm	Max 2000	1354
Iron, ppm as Fe	0 - 2.0	0.24
Treatment Residuals		
Nitrite, ppm	> 800	870
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, HQ	Sample Point: HQ, 32 nd Floor, Pump Room, Chilled Water
Date: 13-12-2020	Sampled By: Crystalline Representative

CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
pH	9.0 - 10.5	10.12
Conductivity, $\mu\text{s}/\text{cm}$	Max 3500	2230
TDS, ppm	Max 2000	1449
Iron, ppm as Fe	0 - 2.0	0.13
Treatment Residuals		
Nitrite, ppm	> 800	910
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
Murugaraaj
Service Engineer



CLEANER WATER GREENER TOMORROW



CRYSTALLINE ENVIRONMENTAL SERVICES

CONSULTING TEST REPORT

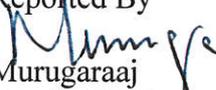
Customer: SERCO MIDDLE EAST	
Project: Abu Dhabi Investment Authority, Abu Dhabi	
Site: ADIA, HQ	Sample Point: HQ, 37 th Floor, Pump Room, Chilled Water
Date: 13-12-2020	Sampled By: Crystalline Representative

CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
pH	9.0 - 10.5	9.16
Conductivity, $\mu\text{s}/\text{cm}$	Max 3500	530
TDS, ppm	Max 2000	344
Iron, ppm as Fe	0 - 2.0	0.17
Treatment Residuals		
Nitrite, ppm	> 800	<100
Dipslide	<10 ³	ND

***All test results expressed in parts per million (ppm) as CaCO_3 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 low \Rightarrow	Please maintain the desired control limit

Reported By

Murugaraaj
Service Engineer



CLEANER WATER GREENER TOMORROW



CRYSTALLINE ENVIRONMENTAL SERVICES

CONSULTING TEST REPORT

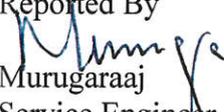
Customer: SERCO MIDDLE EAST	
Project: Abu Dhabi Investment Authority, Abu Dhabi	
Site: ADIA, Car Parking	Sample Point: CP, LG, Chiller Plant Room
Date: 16-12-2020	Sampled By: Crystalline Representative

CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
pH	9.0 - 10.5	10.23
Conductivity, $\mu\text{s}/\text{cm}$	Max 3500	2980
TDS, ppm	Max 2000	1937
Iron, ppm as Fe	0 - 2.0	0.18
Treatment Residuals		
Nitrite, ppm	> 800	1360
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





CRYSTALLINE ENVIRONMENTAL SERVICES

CONSULTING TEST REPORT

Customer: SERCO MIDDLE EAST	
Project: Abu Dhabi Investment Authority, Abu Dhabi	
Site: ADIA, Car Parking	Sample Point: CP, Level 6, , Chilled Water
Date: 16-12-2020	Sampled By: Crystalline Representative

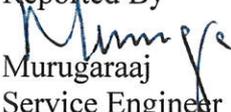
CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
pH	9.0 - 10.5	9.43
Conductivity, $\mu\text{s}/\text{cm}$	Max 3500	2168
TDS, ppm	Max 2000	1409
Iron, ppm as Fe	0 - 2.0	0.27
Treatment Residuals		
Nitrite, ppm	> 800	840
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

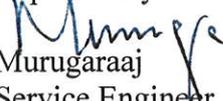
Customer: SERCO MIDDLE EAST	
Project: Abu Dhabi Investment Authority, Abu Dhabi	
Site: ADIA, Car Parking	Sample Point: CP, Level Roof Air Water Cooled, Chilled Water
Date: 16-12-2020	Sampled By: Crystalline Representative

CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
pH	9.0 - 10.5	9.16
Conductivity, $\mu\text{s}/\text{cm}$	Max 3500	2031
TDS, ppm	Max 2000	1320
Iron, ppm as Fe	0 - 2.0	0.16
Treatment Residuals		
Nitrite, ppm	> 800	890
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