



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-2012-28675



Request No. : WA-Q-L-2012-04077

Sample No. : WA-S-L-2012-28064

Sampling Date	: 08/12/2020	Report Date.	: 10/12/2020
Analysis Start Date.	: 08/12/2020	Analysis End Date.	: 10/12/2020
Sample Location.	: Zayed University	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 2971	Sampling Method	: APHA 9060 A&B
Temperature °C	: 18	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: SV1 Service Building 1
Sampling Point	: ETS Room	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
HS	SM	None

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

Signed for and on behalf of Wimpey Laboratories

Dr. Suresh Murugan Ph.D
Head of Microbiology Department



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Microbiology Test Report

Customer Details

Crystalline Cleaning & Environmental Services

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

Report No. WA-R-L-2012-28676



Request No. : WA-Q-L-2012-04077

Sample No. : WA-S-L-2012-28065

Sampling Date	: 08/12/2020	Report Date.	: 10/12/2020
Analysis Start Date.	: 08/12/2020	Analysis End Date.	: 10/12/2020
Sample Location.	: Zayed University	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 2971	Sampling Method	: APHA 9060 A&B
Temperature °C	: 17	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: SV2 Service Building 2
Sampling Point	: ETS Room	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 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=<1CFU

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

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

Analyst	Reviewed By	Method Variation
HS	SM	None

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

Signed for and on behalf of Wimpey Laboratories

Dr. Suresh Murugan Ph.D
Head of Microbiology Department



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Microbiology Test Report

Customer Details

Crystalline Cleaning & Environmental Services

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

Report No. WA-R-L-2012-28677



Request No. : WA-Q-L-2012-04077

Sample No.: WA-S-L-2012-28066

Sampling Date	: 08/12/2020	Report Date.	: 10/12/2020
Analysis Start Date.	: 08/12/2020	Analysis End Date.	: 10/12/2020
Sample Location.	: Zayed University	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 2971	Sampling Method	: APHA 9060 A&B
Temperature °C	: 17	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Infrastructure Building Male Side
Sampling Point	: Plant Room	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 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
HS	SM	None

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

Signed for and on behalf of Wimpey Laboratories

Dr. Suresh Murugan Ph.D
Head of Microbiology Department



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Microbiology Test Report

Customer Details

Crystalline Cleaning & Environmental Services

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

Report No. WA-R-L-2012-28678



Request No. : WA-Q-L-2012-04077

Sample No. : WA-S-L-2012-28067

Sampling Date	: 08/12/2020	Report Date.	: 10/12/2020
Analysis Start Date.	: 08/12/2020	Analysis End Date.	: 10/12/2020
Sample Location.	: Zayed University	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 2971	Sampling Method	: APHA 9060 A&B
Temperature °C	: 16	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Infrastructure Building Female Side
Sampling Point	: Plant Room	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
HS	SM	None

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

Signed for and on behalf of Wimpey Laboratories



Dr. Suresh Murugan Ph.D

Head of Microbiology Department

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CRYSTALLINE ENVIRONMENTAL SERVICES

CONSULTING TEST REPORT

CUSTOMER: SERCO MIDDLE EAST	
Site Location: Zayed University, Abu Dhabi	Date: 08-12-2020
Sample Point: SV1. ETS Room	Sample Collected By: Crystalline Rep

CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
pH	9.0 - 10.5	9.74
Conductivity, $\mu\text{s}/\text{cm}$	Max 3500	1652
TDS, ppm	--	1073
Iron, ppm as Fe	0 - 2.0	0.16
Treatment Residuals		
Nitrite, ppm	> 800	640
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 the control limits. \Rightarrow	No action recommended.
Corrosion Inhibitor 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	
Site Location: Zayed University, Abu Dhabi	Date: 08-12-2020
Sample Point: SV2. ETS Room	Sample Collected By: Crystalline Rep

CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
pH	9.0 - 10.5	9.97
Conductivity, $\mu\text{s}/\text{cm}$	Max 3500	2308
TDS, ppm	--	1506
Iron, ppm as Fe	0 - 2.0	0.45
Treatment Residuals		
Nitrite, ppm	> 800	1240
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 the control limits. \Rightarrow	No action recommended.
Corrosion Inhibitor 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	
Site Location: Zayed University, Abu Dhabi	Date: 08-12-2020
Sample Point: Instruction Building, Male Side	Sample Collected By: Crystalline Rep

CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
pH	9.0 - 10.5	9.65
Conductivity, $\mu\text{s}/\text{cm}$	Max 3500	1530
TDS, ppm	--	994
Iron, ppm as Fe	0 - 2.0	0.26
Treatment Residuals		
Nitrite, ppm	> 800	730
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 the control limits. \Rightarrow	No action recommended.
Corrosion Inhibitor 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	
Site Location: Zayed University, Abu Dhabi	Date: 08-12-2020
Sample Point: Instruction Building, female Side	Sample Collected By: Crystalline Rep

CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
pH	9.0 - 10.5	9.16
Conductivity, $\mu\text{s}/\text{cm}$	Max 3500	1480
TDS, ppm	--	962
Iron, ppm as Fe	0 - 2.0	0.25
Treatment Residuals		
Nitrite, ppm	> 800	740
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 the control limits. \Rightarrow	No action recommended.
Corrosion Inhibitor levels are low \Rightarrow	Please maintain the desired control limit

Reported By


Murugaraaj
Service Engineer



CLEANER WATER GREENER TOMORROW