



**Microbiology Test Report**

**Customer Details**

**Crystalline Cleaning & Environmental Services**

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

Report No. WA-R-L-2010-23578



Request No. : WA-Q-L-2010-03429

Sample No. : WA-S-L-2010-22804

Sampling Date	: 17/10/2020	Report Date.	: 20/10/2020
Analysis Start Date.	: 17/10/2020	Analysis End Date.	: 19/10/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) – Head Quarters	Sampled By	: Shoukth
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 2431	Sampling Method	: APHA 9060 A & B
Temperature °C	: 9.8	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Valve
Sampling Point	: Basement -Chilled Water	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
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-2010-23587



Request No. : WA-Q-L-2010-03429

Sample No. : WA-S-L-2010-22813

Sampling Date	: 17/10/2020	Report Date.	: 20/10/2020
Analysis Start Date.	: 17/10/2020	Analysis End Date.	: 19/10/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) - Head Quarters	Sampled By	: Shoukth
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 2431	Sampling Method	: APHA 9060 A & B
Temperature °C	: 11.9	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Valve
Sampling Point	: 16th Floor Tertiary Pump Room - Chilled 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	--
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-2010-23589



Request No. : WA-Q-L-2010-03429

Sample No. : WA-S-L-2010-22815

Sampling Date	: 17/10/2020	Report Date.	: 20/10/2020
Analysis Start Date.	: 17/10/2020	Analysis End Date.	: 19/10/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) – Head Quarters	Sampled By	: Shoukth
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 2432	Sampling Method	: APHA 9060 A & B
Temperature °C	: 11.1	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Valve
Sampling Point	: 32 Floor Wing B Plant Room – Chilled Water	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
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-2010-23598



Request No. : WA-Q-L-2010-03429

Sample No. : WA-S-L-2010-22824

Sampling Date	: 17/10/2020	Report Date.	: 20/10/2020
Analysis Start Date.	: 17/10/2020	Analysis End Date.	: 19/10/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) – Head Quarters	Sampled By	: Shoukth
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 2432	Sampling Method	: APHA 9060 A & B
Temperature °C	: 11.9	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Valve
Sampling Point	: 37th Floor Plant Room Chilled Water	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
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-2010-23618



Request No. : WA-Q-L-2010-03430

Sample No. : WA-S-L-2010-22844

Sampling Date	: 18/10/2020	Report Date.	: 20/10/2020
Analysis Start Date.	: 18/10/2020	Analysis End Date.	: 20/10/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) -Car Parking	Sampled By	: Shoukth
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 2433	Sampling Method	: APHA 9060 A & B
Site Observation	: Clear	Sampling Container	: Sterile Plastic Bottle
Source of Sample	: Valve	Sampling Point	: Basement 02, Chilled Water
Preservation	: 4-8°C		

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-2010-23619



Request No. : WA-Q-L-2010-03430

Sample No. : WA-S-L-2010-22845

Sampling Date	: 18/10/2020	Report Date.	: 20/10/2020
Analysis Start Date.	: 18/10/2020	Analysis End Date.	: 20/10/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) -Car Parking	Sampled By	: Shoukth
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 2433	Sampling Method	: APHA 9060 A & B
Site Observation	: Clear	Sampling Container	: Sterile Plastic Bottle
Source of Sample	: Valve	Sampling Point	: GF Secondary Pump Room - Chilled Water
Preservation	: 4-8°C		

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-2010-23620



Request No. : WA-Q-L-2010-03430

Sample No. : WA-S-L-2010-22846

Sampling Date	: 18/10/2020	Report Date.	: 20/10/2020
Analysis Start Date.	: 18/10/2020	Analysis End Date.	: 20/10/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) -Car Parking	Sampled By	: Shoukth
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 2433	Sampling Method	: APHA 9060 A & B
Site Observation	: Clear	Sampling Container	: Sterile Plastic Bottle
Source of Sample	: Valve	Sampling Point	: LG Chiller Plant Room – Chilled Water
Preservation	: 4-8°C		

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-2010-23621



Request No. : WA-Q-L-2010-03430

Sample No. : WA-S-L-2010-22847

Sampling Date	: 18/10/2020	Report Date.	: 20/10/2020
Analysis Start Date.	: 18/10/2020	Analysis End Date.	: 20/10/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) -Car Parking	Sampled By	: Shoukth
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 2433	Sampling Method	: APHA 9060 A & B
Site Observation	: Clear	Sampling Container	: Sterile Plastic Bottle
Source of Sample	: Valve	Sampling Point	: LG Chiller Plant Room- Chiller Yard (Water Cooled)
Preservation	: 4-8°C		

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-2010-23624



Request No. : WA-Q-L-2010-03430

Sample No. : WA-S-L-2010-22850

Sampling Date	: 18/10/2020	Report Date.	: 20/10/2020
Analysis Start Date.	: 18/10/2020	Analysis End Date.	: 20/10/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) -Car Parking	Sampled By	: Shoukth
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 2434	Sampling Method	: APHA 9060 A & B
Site Observation	: Clear	Sampling Container	: Sterile Plastic Bottle
Source of Sample	: Valve	Sampling Point	: 06th Floor Chilled Water
Preservation	: 4-8°C		

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-2010-23629



Request No. : WA-Q-L-2010-03430

Sample No. : WA-S-L-2010-22855

Sampling Date	: 18/10/2020	Report Date.	: 20/10/2020
Analysis Start Date.	: 18/10/2020	Analysis End Date.	: 20/10/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) -Car Parking	Sampled By	: Shoukth
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 2434	Sampling Method	: APHA 9060 A & B
Site Observation	: Clear	Sampling Container	: Sterile Plastic Bottle
Source of Sample	: Valve	Sampling Point	: Roof Chiller Plant Room Chilled Water (Air Cooled)
Preservation	: 4-8°C		

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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# CRYSTALLINE ENVIRONMENTAL SERVICES

## CONSULTING TEST REPORT

<b>CUSTOMER: SERCO, MIDDLE EAST</b>	
SITE: Abu Dhabi Investment Authority, Abu Dhabi	SAMPLE POINT: Car Parking, Roof Top Chiller Yard – Air Cooled
DATE: 18-10-2020	SAMPLED BY: Crystalline Rep

### CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
Ph	9.0 – 10.5	10.28
Conductivity, $\mu\text{s}/\text{cm}$	Max 3500	1681
TDS, ppm	Max 2000	1092
Iron, ppm as Fe	0 – 2.0	0.24
<b>Treatment Residuals</b>		
Nitrite, ppm	> 800	830
Dipslide	<10 <sup>3</sup>	ND

\*\*\*All test results expressed in parts per million (ppm) as CaCO<sub>3</sub> except pH and conductivity ( $\mu\text{mhos}$ ).

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**



**CONSULTING TEST REPORT**

<b>CUSTOMER: SERCO, MIDDLE EAST</b>	
SITE: Abu Dhabi Investment Authority, Abu Dhabi	SAMPLE POINT: Car Parking, Level 6 Chilled Water
DATE: 18-10-2020	SAMPLED BY: Crystalline Rep

**CHILLED WATER ANALYSIS**

PARAMETER	CONTROL LIMITS	RESULTS
Ph	9.0 - 10.5	10.29
Conductivity, $\mu\text{s}/\text{cm}$	Max 3500	1734
TDS, ppm	Max 2000	1127
Iron, ppm as Fe	0 - 2.0	0.14
<b>Treatment Residuals</b>		
Nitrite, ppm	> 800	830
Dipslide	<10 <sup>3</sup>	ND

*\*\*\*All test results expressed in parts per million (ppm) as CaCO<sub>3</sub> except pH and conductivity ( $\mu\text{mhos}$ ).*

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







# CRYSTALLINE ENVIRONMENTAL SERVICES

## CONSULTING TEST REPORT

<b>CUSTOMER: SERCO, MIDDLE EAST</b>	
SITE: Abu Dhabi Investment Authority, Abu Dhabi	SAMPLE POINT: Car Parking, Basement 2 Chilled Water
DATE: 18-10-2020	SAMPLED BY: Crystalline Rep

### CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
Ph	9.0 - 10.5	10.37
Conductivity, $\mu\text{s}/\text{cm}$	Max 3500	1642
TDS, ppm	Max 2000	1067
Iron, ppm as Fe	0 - 2.0	0.17
<b>Treatment Residuals</b>		
Nitrite, ppm	> 800	740
Dipslide	<10 <sup>3</sup>	ND

\*\*\*All test results expressed in parts per million (ppm) as CaCO<sub>3</sub> except pH and conductivity ( $\mu\text{mhos}$ ).

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 slightly low $\Rightarrow$	Please maintain the nitrite level above 800PPM

Reported By

  
Murugaraaj



**CLEANER WATER GREENER TOMORROW**



# CRYSTALLINE ENVIRONMENTAL SERVICES

## CONSULTING TEST REPORT

<b>CUSTOMER: SERCO, MIDDLE EAST</b>	
SITE: Abu Dhabi Investment Authority, Abu Dhabi	SAMPLE POINT: HQ, Basement Chilled Water
DATE: 17-10-2020	SAMPLED BY: Crystalline Rep

### CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
Ph	9.0 - 10.5	10.17
Conductivity, $\mu\text{s}/\text{cm}$	Max 3500	1784
TDS, ppm	Max 2000	1159
Iron, ppm as Fe	0 - 2.0	0.32
<b>Treatment Residuals</b>		
Nitrite, ppm	> 800	710
Dipslide	<10 <sup>3</sup>	ND

\*\*\*All test results expressed in parts per million (ppm) as CaCO<sub>3</sub> except pH and conductivity ( $\mu\text{mhos}$ ).

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 slightly low $\Rightarrow$	Please maintain the nitrite level above 800PPM

Reported By

  
Murugaraaj



**CLEANER WATER GREENER TOMORROW**



# CRYSTALLINE ENVIRONMENTAL SERVICES

## CONSULTING TEST REPORT

<b>CUSTOMER: SERCO, MIDDLE EAST</b>	
SITE: Abu Dhabi Investment Authority, Abu Dhabi	SAMPLE POINT: HQ, Level 16 Chilled Water
DATE: 17-10-2020	SAMPLED 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	2140
TDS, ppm	Max 2000	1391
Iron, ppm as Fe	0 - 2.0	0.13
<b>Treatment Residuals</b>		
Nitrite, ppm	> 800	840
Dipslide	<10 <sup>3</sup>	ND

\*\*\*All test results expressed in parts per million (ppm) as CaCO<sub>3</sub> except pH and conductivity ( $\mu\text{mhos}$ ).

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

Reported By

  
Murugaraaj



**CLEANER WATER GREENER TOMORROW**



# CRYSTALLINE ENVIRONMENTAL SERVICES

## CONSULTING TEST REPORT

<b>CUSTOMER: SERCO, MIDDLE EAST</b>	
SITE: Abu Dhabi Investment Authority, Abu Dhabi	SAMPLE POINT: HQ, Level 37 Chilled Water
DATE: 17-10-2020	SAMPLED BY: Crystalline Rep

### CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
Ph	9.0 - 10.5	9.17
Conductivity, $\mu\text{s}/\text{cm}$	Max 3500	369
TDS, ppm	Max 2000	243
Iron, ppm as Fe	0 - 2.0	0.14
<b>Treatment Residuals</b>		
Nitrite, ppm	> 800	<100
Dipslide	<10 <sup>3</sup>	ND

\*\*\*All test results expressed in parts per million (ppm) as CaCO<sub>3</sub> except pH and conductivity ( $\mu\text{mhos}$ ).

COMMENTS:	ACTION:
The pH level is satisfactory $\Rightarrow$	No action recommended.
The Conductivity levels are satisfactory $\Rightarrow$	No action recommended.
Dissolved iron levels are within control limit $\Rightarrow$	No action recommended.
Nitrite levels are low $\Rightarrow$	Please maintain the nitrite level above 800PPM

Reported By

  
Murugaraaj



**CLEANER WATER GREENER TOMORROW**