

TEST REPORT

REPORT NO:-QMTL/R-84625

CLIENT: CRYSTALLINE ENVIRONMENTAL SERVICES P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017		
ATTN: Mr. JASMAN PINTO		
Product: Water	Sampling Method: BS 7592	Sample ID: QMTL/S-84625
Reference: ADIA – HEAD QUARTERS	Sampled By: QMTL Representative	Date Received: 14.12.2019
Sample Description : Basement- Chilled Water Sample Onsite Temp: 8.5°C Sample Receipt Temp: 16°C	Source: Valve	Date(s) Tested: 14-24.12.2019
	Sample Container: 1x1 L PB	Date Reported: 28.12.2019
	Sample Appearance: Clear	Date of Sampling/Time: 14.12.2019/10.57 AM
On-Site Treatment: NA	Tested by Emp#: 55 & 74	Location: AUH

TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	LIMITS	RESULTS
LEGIONELLA ANALYSIS				
Legionella	CCFRA 3.9.1 (5 th Edition)	cfu/litre	1000	Not Detected
IDENTIFICATION				
Legionella Species	CCFRA 3.9.1 (5 th Edition)	-	-	Absent
Legionella pneumophila sero group 1	CCFRA 3.9.1 (5 th Edition)	-	-	Absent
Legionella pneumophila sero group 2-15	CCFRA 3.9.1 (5 th Edition)	-	-	Absent

REMARKS: The sample meets DM Water Systems quality (2010) specifications for Cooling Water System with respect to the above tests only.

Key Words: CFU: Colony Forming Unit, BS: British Standards, CCFRA: Campden & Chorleywood Food Research Association DM: Dubai Municipality, NA: Not Applicable.

Report prepared by Emp#: 61

Test Method deviation : None

The above test results are only applicable to the sample(s) referred above

Reported By

ANILA GEORGE
LABORATORY MANAGER



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END OF REPORT

TEST REPORT

REPORT NO:-QMTL/R-84634

CLIENT: CRYSTALLINE ENVIRONMENTAL SERVICES P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017		
ATTN: Mr. JASMAN PINTO		
Product: Water	Sampling Method: BS 7592	Sample ID: QMTL/S-84634
Reference: ADIA – HEAD QUARTERS	Sampled By: QMTL Representative	Date Received: 14.12.2019
Sample Description : 15 th Floor, Tertiary Pump Room- Chilled Water Sample Onsite Temp: 8°C Sample Receipt Temp: 16°C	Source: Valve	Date(s) Tested: 14-24.12.2019
	Sample Container: 1x1 L PB	Date Reported: 28.12.2019
	Sample Appearance: Clear	Date of Sampling/Time: 14.12.2019/11.40 AM
On-Site Treatment: NA	Tested by Emp#: 55 & 74	Location: AUH

TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	LIMITS	RESULTS
LEGIONELLA ANALYSIS				
Legionella	CCFRA 3.9.1 (5 th Edition)	cfu/litre	1000	Not Detected
IDENTIFICATION				
Legionella Species	CCFRA 3.9.1 (5 th Edition)	-	-	Absent
Legionella pneumophila sero group 1	CCFRA 3.9.1 (5 th Edition)	-	-	Absent
Legionella pneumophila sero group 2-15	CCFRA 3.9.1 (5 th Edition)	-	-	Absent

REMARKS: The sample meets DM Water Systems quality (2010) specifications for Cooling Water System with respect to the above tests only.

Key Words: CFU: Colony Forming Unit, BS: British Standards, CCFRA: Campden & Chorleywood Food Research Association DM: Dubai Municipality, NA: Not Applicable.

Report prepared by Emp#: 61

Test Method deviation : None

The above test results are only applicable to the sample(s) referred above

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TEST REPORT

REPORT NO:-QMTL/R-84636

CLIENT: CRYSTALLINE ENVIRONMENTAL SERVICES P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017		
ATTN: Mr. JASMAN PINTO		
Product: Water	Sampling Method: BS 7592	Sample ID: QMTL/S-84636
Reference: ADIA – HEAD QUARTERS	Sampled By: QMTL Representative	Date Received: 14.12.2019
Sample Description : 32 nd Floor, Wing B, Plant Room- Chilled Water Sample Onsite Temp: 8.1°C Sample Receipt Temp: 16°C	Source: Tap	Date(s) Tested: 14-24.12.2019
	Sample Container: 1x1 L PB	Date Reported: 28.12.2019
	Sample Appearance: Clear	Date of Sampling/Time: 14.12.2019/12.10 PM
On-Site Treatment: NA	Tested by Emp#: 55 & 74	Location: AUH

TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	LIMITS	RESULTS
LEGIONELLA ANALYSIS				
Legionella	CCFRA 3.9.1 (5 th Edition)	cfu/litre	1000	Not Detected
IDENTIFICATION				
Legionella Species	CCFRA 3.9.1 (5 th Edition)	-	-	Absent
Legionella pneumophila sero group 1	CCFRA 3.9.1 (5 th Edition)	-	-	Absent
Legionella pneumophila sero group 2-15	CCFRA 3.9.1 (5 th Edition)	-	-	Absent

REMARKS: The sample meets DM Water Systems quality (2010) specifications for Cooling Water System with respect to the above tests only.

Key Words: CFU: Colony Forming Unit, BS: British Standards, CCFRA: Campden & Chorleywood Food Research Association DM: Dubai Municipality, NA: Not Applicable.

Report prepared by Emp#: 61

Test Method deviation : None

The above test results are only applicable to the sample(s) referred above

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TEST REPORT

REPORT NO:-QMTL/R-84737

CLIENT: CRYSTALLINE ENVIRONMENTAL SERVICES P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017		
ATTN: Mr. JASMAN PINTO		
Product: Water	Sampling Method: BS 7592	Sample ID: QMTL/S-84737
Reference: ADIA – HEAD QUARTERS	Sampled By: QMTL Representative	Date Received: 15.12.2019
Sample Description : 37 th Floor- Plant Room, Chilled Water Sample Onsite Temp: 14°C Sample Receipt Temp: 16°C	Source: Valve	Date(s) Tested: 15-25.12.2019
	Sample Container: 1x1 L PB	Date Reported: 28.12.2019
	Sample Appearance: Clear	Date of Sampling/Time: 15.12.2019/10.05 AM
On-Site Treatment: NA	Tested by Emp#: 55 & 74	Location: AUH

TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	LIMITS	RESULTS
LEGIONELLA ANALYSIS				
Legionella	CCFRA 3.9.1 (5 th Edition)	cfu/litre	1000	Not Detected
IDENTIFICATION				
Legionella Species	CCFRA 3.9.1 (5 th Edition)	-	-	Absent
Legionella pneumophila sero group 1	CCFRA 3.9.1 (5 th Edition)	-	-	Absent
Legionella pneumophila sero group 2-15	CCFRA 3.9.1 (5 th Edition)	-	-	Absent

REMARKS: The sample meets DM Water Systems quality 2010 specifications for Cooling Water System with respect to the above tests only.

Key Words: CFU: Colony Forming Unit, BS: British Standards, CCFRA: Campden & Chorleywood Food Research Association DM: Dubai Municipality, NA: Not Applicable.

Report prepared by Emp#: 61

Test Method deviation : None

The above test results are only applicable to the sample(s) referred above

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TEST REPORT

REPORT NO:-QMTL/R-84603

CLIENT: CRYSTALLINE ENVIRONMENTAL SERVICES

P.O.Box.131463, Abu Dhabi, U.A.E

Ph:02-6508930/0557167017

ATTN:MR. JASMAN PINTO

Product: Water	Sampling Method: APHA 9060 A	Sample ID: QMTL/S-84603
Reference: ADIA – HEAD QUARTERS	Sampled By: QMTL Representative	Date Received: 14.12.2019
Sample Description : Basement- Chilled Water Sample Onsite Temp: 8.5°C Sample Receipt Temp: 4°C	Source: Valve	Date(s) Tested: 14-16.12.2019
	Sample Container: 1X 500 ml PB	Date Reported: 21.12.2019
	Sample Appearance: Clear	Date of Sampling/Time: 14.12.2019/10.57 AM
On-Site Treatment: NA	Tested by Emp#: 55 & 74	Location: AUH

TEST RESULTS

PARAMETERS	TEST METHODS (APHA 23 RD EDITION)	UNITS	SPECIFICATIONS	RESULTS
MICROBIOLOGICAL ANALYSIS				
Total Bacterial Count	APHA 9215 B	CFU/ml	10,000	<1
Total Coliforms	APHA 9222 B	CFU/100ml	-	Zero
Faecal coliform	APHA 9222 D	CFU/100ml	-	Zero
Pseudomonas aeruginosa	APHA 9213 E	CFU/100ml	-	Zero
Escherichia coli	APHA 9222 H & I	CFU/100ml	-	Zero

REMARKS: The sample meets DM Water Systems quality 2010 specifications for Cooling Water System with respect to the above tests only.

Key Words:- CFU: Colony Forming Unit, APHA: American Public Health Association, DM: Dubai Municipality, NA: Not Applicable

Report prepared by Emp#: 75

Test Method deviation : None

The above test results are only applicable to the sample(s) referred above

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TEST REPORT

REPORT NO:-QMTL/R-84612

CLIENT: CRYSTALLINE ENVIRONMENTAL SERVICES P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017		
ATTN:MR. JASMAN PINTO		
Product: Water	Sampling Method: APHA 9060 A	Sample ID: QMTL/S-84612
Reference: ADIA – HEAD QUARTERS	Sampled By: QMTL Representative	Date Received: 14.12.2019
Sample Description : 15 th Floor, Tertiary Pump Room- Chilled Water Sample Onsite Temp: 8°C Sample Receipt Temp: 4°C	Source: Valve	Date(s) Tested: 14-16.12.2019
	Sample Container: 1X 500 ml PB	Date Reported: 21.12.2019
	Sample Appearance: Clear	Date of Sampling/Time: 14.12.2019/11.40 AM
On-Site Treatment: NA	Tested by Emp#: 55 & 74	Location: AUH

TEST RESULTS

PARAMETERS	TEST METHODS (APHA 23 RD EDITION)	UNITS	SPECIFICATIONS	RESULTS
MICROBIOLOGICAL ANALYSIS				
Total Bacterial Count	APHA 9215 B	CFU/ml	10,000	<1
Total Coliforms	APHA 9222 B	CFU/100ml	-	Zero
Faecal coliform	APHA 9222 D	CFU/100ml	-	Zero
Pseudomonas aeruginosa	APHA 9213 E	CFU/100ml	-	Zero
Escherichia coli	APHA 9222 H & I	CFU/100ml	-	Zero

REMARKS: The sample meets DM Water Systems quality 2010 specifications for Cooling Water System with respect to the above tests only.

Key Words:- CFU: Colony Forming Unit, APHA: American Public Health Association, DM: Dubai Municipality, NA: Not Applicable

Report prepared by Emp#: 75

Test Method deviation : None

The above test results are only applicable to the sample(s) referred above

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TEST REPORT

REPORT NO:-QMTL/R-84614

CLIENT: CRYSTALLINE ENVIRONMENTAL SERVICES P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017		
ATTN:MR. JASMAN PINTO		
Product: Water	Sampling Method: APHA 9060 A	Sample ID: QMTL/S-84614
Reference: ADIA – HEAD QUARTERS	Sampled By: QMTL Representative	Date Received: 14.12.2019
Sample Description : 32 nd Floor, Wing B, Plant Room- Chilled Water Sample Onsite Temp: 8.1°C Sample Receipt Temp: 4°C	Source: Tap	Date(s) Tested: 14-16.12.2019
	Sample Container: 1X 500 ml PB	Date Reported: 21.12.2019
	Sample Appearance: Clear	Date of Sampling/Time: 14.12.2019/12.10 PM
On-Site Treatment: NA	Tested by Emp#: 55 & 74	Location: AUH

TEST RESULTS

PARAMETERS	TEST METHODS (APHA 23 RD EDITION)	UNITS	SPECIFICATIONS	RESULTS
MICROBIOLOGICAL ANALYSIS				
Total Bacterial Count	APHA 9215 B	CFU/ml	10,000	<1
Total Coliforms	APHA 9222 B	CFU/100ml	-	Zero
Faecal coliform	APHA 9222 D	CFU/100ml	-	Zero
Pseudomonas aeruginosa	APHA 9213 E	CFU/100ml	-	Zero
Escherichia coli	APHA 9222 H & I	CFU/100ml	-	Zero

REMARKS: The sample meets DM Water Systems quality 2010 specifications for Cooling Water System with respect to the above tests only.

Key Words:- CFU: Colony Forming Unit, APHA: American Public Health Association, DM: Dubai Municipality, NA: Not Applicable

Report prepared by Emp#: 75

Test Method deviation : None

The above test results are only applicable to the sample(s) referred above

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TEST REPORT

REPORT NO:-QMTL/R-84714

CLIENT: CRYSTALLINE ENVIRONMENTAL SERVICES		
P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017		
ATTN:MR. JASMAN PINTO		
Product: Water	Sampling Method: APHA 9060 A	Sample ID: QMTL/S-84714
Reference: ADIA – HEAD QUARTERS	Sampled By: QMTL Representative	Date Received: 15.12.2019
Sample Description : 37 th Floor- Plant Room, Chilled Water Sample Onsite Temp: 14°C Sample Receipt Temp: 4°C	Source: Valve	Date(s) Tested: 15-17.12.2019
	Sample Container: 1X 500 ml PB	Date Reported: 22.12.2019
	Sample Appearance: Clear	Date of Sampling/Time: 15.12.2019/10.05 AM
On-Site Treatment: NA	Tested by Emp#: 55 & 74	Location: AUH

TEST RESULTS

PARAMETERS	TEST METHODS (APHA 23 RD EDITION)	UNITS	SPECIFICATIONS	RESULTS
MICROBIOLOGICAL ANALYSIS				
Total Bacterial Count	APHA 9215 B	CFU/ml	10,000	8
Total Coliforms	APHA 9222 B	CFU/100ml	-	Zero
Faecal coliform	APHA 9222 D	CFU/100ml	-	Zero
Pseudomonas aeruginosa	APHA 9213 E	CFU/100ml	-	Zero
Escherichia coli	APHA 9222 H & I	CFU/100ml	-	Zero

REMARKS: The sample meets DM Water Systems quality 2010 specifications for Cooling Water System with respect to the above tests only.

Key Words:- CFU: Colony Forming Unit, APHA: American Public Health Association, DM: Dubai Municipality, NA: Not Applicable

Report prepared by Emp#: 75

Test Method deviation : None

The above test results are only applicable to the sample(s) referred above

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END OF REPORT

TEST REPORT

REPORT NO:-QMTL/R-84726

CLIENT: CRYSTALLINE ENVIRONMENTAL SERVICES		
P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017		
ATTN:MR. JASMAN PINTO		
Product: Water	Sampling Method: APHA 9060 A	Sample ID: QMTL/S-84726
Reference: ADIA – CAR PARKING	Sampled By: QMTL Representative	Date Received: 15.12.2019
Sample Description : Basement-02, Chilled Water Sample Onsite Temp: 7.4°C Sample Receipt Temp: 4°C	Source: Valve	Date(s) Tested: 15-17.12.2019
	Sample Container: 1X 500 ml PB	Date Reported: 22.12.2019
	Sample Appearance: Clear	Date of Sampling/Time: 15.12.2019/11.43 AM
On-Site Treatment: NA	Tested by Emp#: 55 & 74	Location: AUH

TEST RESULTS

PARAMETERS	TEST METHODS (APHA 23 RD EDITION)	UNITS	SPECIFICATIONS	RESULTS
MICROBIOLOGICAL ANALYSIS				
Total Bacterial Count	APHA 9215 B	CFU/ml	10,000	<1
Total Coliforms	APHA 9222 B	CFU/100ml	-	Zero
Faecal coliform	APHA 9222 D	CFU/100ml	-	Zero
Pseudomonas aeruginosa	APHA 9213 E	CFU/100ml	-	Zero
Escherichia coli	APHA 9222 H & I	CFU/100ml	-	Zero

REMARKS: The sample meets DM Water Systems quality 2010 specifications for Cooling Water System with respect to the above tests only.

Key Words:- CFU: Colony Forming Unit, APHA: American Public Health Association, DM: Dubai Municipality, NA: Not Applicable

Report prepared by Emp#: 75

Test Method deviation : None

The above test results are only applicable to the sample(s) referred above

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END OF REPORT

TEST REPORT

REPORT NO:-QMTL/R-84727

CLIENT: CRYSTALLINE ENVIRONMENTAL SERVICES		
P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017		
ATTN:MR. JASMAN PINTO		
Product: Water	Sampling Method: APHA 9060 A	Sample ID: QMTL/S-84727
Reference: ADIA – CAR PARKING	Sampled By: QMTL Representative	Date Received: 15.12.2019
Sample Description : GF Secondary Pump Room- Chilled Water Sample Onsite Temp: 8°C Sample Receipt Temp: 4°C	Source: Valve	Date(s) Tested: 15-17.12.2019
	Sample Container: 1X 500 ml PB	Date Reported: 22.12.2019
	Sample Appearance: Clear	Date of Sampling/Time: 15.12.2019/11.57 AM
On-Site Treatment: NA	Tested by Emp#: 55 & 74	Location: AUH

TEST RESULTS

PARAMETERS	TEST METHODS (APHA 23 RD EDITION)	UNITS	SPECIFICATIONS	RESULTS
MICROBIOLOGICAL ANALYSIS				
Total Bacterial Count	APHA 9215 B	CFU/ml	10,000	<1
Total Coliforms	APHA 9222 B	CFU/100ml	-	Zero
Faecal coliform	APHA 9222 D	CFU/100ml	-	Zero
Pseudomonas aeruginosa	APHA 9213 E	CFU/100ml	-	Zero
Escherichia coli	APHA 9222 H & I	CFU/100ml	-	Zero

REMARKS: The sample meets DM Water Systems quality 2010 specifications for Cooling Water System with respect to the above tests only.

Key Words:- CFU: Colony Forming Unit, APHA: American Public Health Association, DM: Dubai Municipality, NA: Not Applicable

Report prepared by Emp#: 75

Test Method deviation : None

The above test results are only applicable to the sample(s) referred above

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END OF REPORT

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QMTL-FRM-58 Revision : 02; Revision Date : 03.01.2016

TEST REPORT

REPORT NO:-QMTL/R-84728

CLIENT: CRYSTALLINE ENVIRONMENTAL SERVICES P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017		
ATTN:MR. JASMAN PINTO		
Product: Water	Sampling Method: APHA 9060 A	Sample ID: QMTL/S-84728
Reference: ADIA – CAR PARKING	Sampled By: QMTL Representative	Date Received: 15.12.2019
Sample Description : LG Chiller Plant Room- Chilled Water Sample Onsite Temp: 8°C Sample Receipt Temp: 4°C	Source: Valve	Date(s) Tested: 15-17.12.2019
	Sample Container: 1X 500 ml PB	Date Reported: 22.12.2019
	Sample Appearance: Clear	Date of Sampling/Time: 15.12.2019/12.12 PM
On-Site Treatment: NA	Tested by Emp#: 55 & 74	Location: AUH

TEST RESULTS

PARAMETERS	TEST METHODS (APHA 23 RD EDITION)	UNITS	SPECIFICATIONS	RESULTS
MICROBIOLOGICAL ANALYSIS				
Total Bacterial Count	APHA 9215 B	CFU/ml	10,000	<1
Total Coliforms	APHA 9222 B	CFU/100ml	-	Zero
Faecal coliform	APHA 9222 D	CFU/100ml	-	Zero
Pseudomonas aeruginosa	APHA 9213 E	CFU/100ml	-	Zero
Escherichia coli	APHA 9222 H & I	CFU/100ml	-	Zero

REMARKS: The sample meets DM Water Systems quality 2010 specifications for Cooling Water System with respect to the above tests only.

Key Words:- CFU: Colony Forming Unit, APHA: American Public Health Association, DM: Dubai Municipality, NA: Not Applicable

Report prepared by Emp#: 75

Test Method deviation : None

The above test results are only applicable to the sample(s) referred above

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QMTL-FRM-58 Revision : 02; Revision Date : 03.01.2016

TEST REPORT

REPORT NO:-QMTL/R-84729

CLIENT: CRYSTALLINE ENVIRONMENTAL SERVICES		
P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017		
ATTN:MR. JASMAN PINTO		
Product: Water	Sampling Method: APHA 9060 A	Sample ID: QMTL/S-84729
Reference: ADIA – CAR PARKING	Sampled By: QMTL Representative	Date Received: 15.12.2019
Sample Description : LG Chiller Plant Room- Chiller Yard (Water Cooled) Sample Onsite Temp: 23°C Sample Receipt Temp: 4°C	Source: Valve	Date(s) Tested: 15-17.12.2019
	Sample Container: 1X 500 ml PB	Date Reported: 22.12.2019
	Sample Appearance: Clear	Date of Sampling/Time: 15.12.2019/12.30 PM
On-Site Treatment: NA	Tested by Emp#: 55 & 74	Location: AUH

TEST RESULTS

PARAMETERS	TEST METHODS (APHA 23 RD EDITION)	UNITS	SPECIFICATIONS	RESULTS
MICROBIOLOGICAL ANALYSIS				
Total Bacterial Count	APHA 9215 B	CFU/ml	10,000	230
Total Coliforms	APHA 9222 B	CFU/100ml	-	Zero
Faecal coliform	APHA 9222 D	CFU/100ml	-	Zero
Pseudomonas aeruginosa	APHA 9213 E	CFU/100ml	-	Zero
Escherichia coli	APHA 9222 H & I	CFU/100ml	-	Zero

REMARKS: The sample meets DM Water Systems quality 2010 specifications for Cooling Water System with respect to the above tests only.

Key Words:- CFU: Colony Forming Unit, APHA: American Public Health Association, DM: Dubai Municipality, NA: Not Applicable

Report prepared by Emp#: 75

Test Method deviation : None

The above test results are only applicable to the sample(s) referred above

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TEST REPORT

REPORT NO:-QMTL/R-84732

CLIENT: CRYSTALLINE ENVIRONMENTAL SERVICES		
P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017		
ATTN:MR. JASMAN PINTO		
Product: Water	Sampling Method: APHA 9060 A	Sample ID: QMTL/S-84732
Reference: ADIA – CAR PARKING	Sampled By: QMTL Representative	Date Received: 15.12.2019
Sample Description : 06 th Floor- Chilled Water Sample Onsite Temp: 8.1°C Sample Receipt Temp: 4°C	Source: Valve	Date(s) Tested: 15-17.12.2019
	Sample Container: 1X 500 ml PB	Date Reported: 22.12.2019
	Sample Appearance: Clear	Date of Sampling/Time: 15.12.2019/02.15 PM
On-Site Treatment: NA	Tested by Emp#: 55 & 74	Location: AUH

TEST RESULTS

PARAMETERS	TEST METHODS (APHA 23 RD EDITION)	UNITS	SPECIFICATIONS	RESULTS
MICROBIOLOGICAL ANALYSIS				
Total Bacterial Count	APHA 9215 B	CFU/ml	10,000	<1
Total Coliforms	APHA 9222 B	CFU/100ml	-	Zero
Faecal coliform	APHA 9222 D	CFU/100ml	-	Zero
Pseudomonas aeruginosa	APHA 9213 E	CFU/100ml	-	Zero
Escherichia coli	APHA 9222 H & I	CFU/100ml	-	Zero

REMARKS: The sample meets DM Water Systems quality 2010 specifications for Cooling Water System with respect to the above tests only.

Key Words:- CFU: Colony Forming Unit, APHA: American Public Health Association, DM: Dubai Municipality, NA: Not Applicable

Report prepared by Emp#: 75

Test Method deviation : None

The above test results are only applicable to the sample(s) referred above

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TEST REPORT

REPORT NO:-QMTL/R-84735

CLIENT: CRYSTALLINE ENVIRONMENTAL SERVICES		
P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017		
ATTN:MR. JASMAN PINTO		
Product: Water	Sampling Method: APHA 9060 A	Sample ID: QMTL/S-84735
Reference: ADIA – CAR PARKING	Sampled By: QMTL Representative	Date Received: 15.12.2019
Sample Description : Roof Chiller Plant Room Chilled Water (Air Cooled) Sample Onsite Temp: 10°C Sample Receipt Temp: 4°C	Source: Cooling Tower	Date(s) Tested: 15-17.12.2019
	Sample Container: 1X 500 ml PB	Date Reported: 22.12.2019
	Sample Appearance: Clear	Date of Sampling/Time: 15.12.2019/03.27 PM
On-Site Treatment: NA	Tested by Emp#: 55 & 74	Location: AUH

TEST RESULTS

PARAMETERS	TEST METHODS (APHA 23 RD EDITION)	UNITS	SPECIFICATIONS	RESULTS
MICROBIOLOGICAL ANALYSIS				
Total Bacterial Count	APHA 9215 B	CFU/ml	10,000	<1
Total Coliforms	APHA 9222 B	CFU/100ml	-	Zero
Faecal coliform	APHA 9222 D	CFU/100ml	-	Zero
Pseudomonas aeruginosa	APHA 9213 E	CFU/100ml	-	Zero
Escherichia coli	APHA 9222 H & I	CFU/100ml	-	Zero

REMARKS: The sample meets DM Water Systems quality 2010 specifications for Cooling Water System with respect to the above tests only.

Key Words:- CFU: Colony Forming Unit, APHA: American Public Health Association, DM: Dubai Municipality, NA: Not Applicable

Report prepared by Emp#: 75

Test Method deviation : None

The above test results are only applicable to the sample(s) referred above

Reported By

ANILA GEORGE
LABORATORY MANAGER



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END OF REPORT

Page 1 of 1

QMTL-FRM-58 Revision : 02; Revision Date : 03.01.2016

TEST REPORT

REPORT NO:-QMTL/R-84749

CLIENT: CRYSTALLINE ENVIRONMENTAL SERVICES		
P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017		
ATTN: Mr. JASMAN PINTO		
Product: Water	Sampling Method: BS 7592	Sample ID: QMTL/S-84749
Reference: ADIA – CAR PARKING	Sampled By: QMTL Representative	Date Received: 15.12.2019
Sample Description : Basement-02, Chilled Water Sample Onsite Temp: 7.4°C Sample Receipt Temp: 16°C	Source: Valve	Date(s) Tested: 15-25.12.2019
	Sample Container: 1x1 L PB	Date Reported: 28.12.2019
	Sample Appearance: Clear	Date of Sampling/Time: 15.12.2019/11.43 AM
On-Site Treatment: NA	Tested by Emp#: 55 & 74	Location: AUH

TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	LIMITS	RESULTS
LEGIONELLA ANALYSIS				
Legionella	CCFRA 3.9.1 (5 th Edition)	cfu/litre	1000	Not Detected
IDENTIFICATION				
Legionella Species	CCFRA 3.9.1 (5 th Edition)	-	-	Absent
Legionella pneumophila sero group 1	CCFRA 3.9.1 (5 th Edition)	-	-	Absent
Legionella pneumophila sero group 2-15	CCFRA 3.9.1 (5 th Edition)	-	-	Absent

REMARKS: The sample meets DM Water Systems quality 2010 specifications for Cooling Water System with respect to the above tests only.

Key Words: CFU: Colony Forming Unit, BS: British Standards, CCFRA: Campden & Chorleywood Food Research Association DM: Dubai Municipality, NA: Not Applicable.

Report prepared by Emp#: 61

Test Method deviation : None

The above test results are only applicable to the sample(s) referred above

Reported By

ANILA GEORGE
LABORATORY MANAGER



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END OF REPORT

TEST REPORT

REPORT NO:-QMTL/R-84750

CLIENT: CRYSTALLINE ENVIRONMENTAL SERVICES P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017		
ATTN: Mr. JASMAN PINTO		
Product: Water	Sampling Method: BS 7592	Sample ID: QMTL/S-84750
Reference: ADIA – CAR PARKING	Sampled By: QMTL Representative	Date Received: 15.12.2019
Sample Description : GF Secondary Pump Room- Chilled Water Sample Onsite Temp: 8°C Sample Receipt Temp: 16°C	Source: Valve	Date(s) Tested: 15-25.12.2019
	Sample Container: 1x1 L PB	Date Reported: 28.12.2019
	Sample Appearance: Clear	Date of Sampling/Time: 15.12.2019/11.57 AM
On-Site Treatment: NA	Tested by Emp#: 55 & 74	Location: AUH

TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	LIMITS	RESULTS
LEGIONELLA ANALYSIS				
Legionella	CCFRA 3.9.1 (5 th Edition)	cfu/litre	1000	Not Detected
IDENTIFICATION				
Legionella Species	CCFRA 3.9.1 (5 th Edition)	-	-	Absent
Legionella pneumophila sero group 1	CCFRA 3.9.1 (5 th Edition)	-	-	Absent
Legionella pneumophila sero group 2-15	CCFRA 3.9.1 (5 th Edition)	-	-	Absent

REMARKS: The sample meets DM Water Systems quality 2010 specifications for Cooling Water System with respect to the above tests only.

Key Words: CFU: Colony Forming Unit, BS: British Standards, CCFRA: Campden & Chorleywood Food Research Association DM: Dubai Municipality, NA: Not Applicable.

Report prepared by Emp#: 61

Test Method deviation : None

The above test results are only applicable to the sample(s) referred above

Reported By

ANILA GEORGE
LABORATORY MANAGER

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END OF REPORT

TEST REPORT

REPORT NO:-QMTL/R-84751

CLIENT: CRYSTALLINE ENVIRONMENTAL SERVICES P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017		
ATTN: Mr. JASMAN PINTO		
Product: Water	Sampling Method: BS 7592	Sample ID: QMTL/S-84751
Reference: ADIA – CAR PARKING	Sampled By: QMTL Representative	Date Received: 15.12.2019
Sample Description : LG Chiller Plant Room- Chilled Water Sample Onsite Temp: 8°C Sample Receipt Temp: 16°C	Source: Valve	Date(s) Tested: 15-25.12.2019
	Sample Container: 1x1 L PB	Date Reported: 28.12.2019
	Sample Appearance: Clear	Date of Sampling/Time: 15.12.2019/12.12 PM
On-Site Treatment: NA	Tested by Emp#: 55 & 74	Location: AUH

TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	LIMITS	RESULTS
LEGIONELLA ANALYSIS				
Legionella	CCFRA 3.9.1 (5 th Edition)	cfu/litre	1000	Not Detected
IDENTIFICATION				
Legionella Species	CCFRA 3.9.1 (5 th Edition)	-	-	Absent
Legionella pneumophila sero group 1	CCFRA 3.9.1 (5 th Edition)	-	-	Absent
Legionella pneumophila sero group 2-15	CCFRA 3.9.1 (5 th Edition)	-	-	Absent

REMARKS: The sample meets DM Water Systems quality 2010 specifications for Cooling Water System with respect to the above tests only.

Key Words: CFU: Colony Forming Unit, BS: British Standards, CCFRA: Campden & Chorleywood Food Research Association DM: Dubai Municipality, NA: Not Applicable.

Report prepared by Emp#: 61

Test Method deviation : None

The above test results are only applicable to the sample(s) referred above

Reported By

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LABORATORY MANAGER

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END OF REPORT

TEST REPORT

REPORT NO:-QMTL/R-84752

CLIENT: CRYSTALLINE ENVIRONMENTAL SERVICES		
P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017		
ATTN: Mr. JASMAN PINTO		
Product: Water	Sampling Method: BS 7592	Sample ID: QMTL/S-84752
Reference: ADIA – CAR PARKING	Sampled By: QMTL Representative	Date Received: 15.12.2019
Sample Description : LG Chiller Plant Room- Chiller Yard (Water Cooled) Sample Onsite Temp: 23°C Sample Receipt Temp: 16°C	Source: Valve	Date(s) Tested: 15-25.12.2019
	Sample Container: 1x1 L PB	Date Reported: 28.12.2019
	Sample Appearance: Clear	Date of Sampling/Time: 15.12.2019/12.30 PM
On-Site Treatment: NA	Tested by Emp#: 55 & 74	Location: AUH

TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	LIMITS	RESULTS
LEGIONELLA ANALYSIS				
Legionella	CCFRA 3.9.1 (5 th Edition)	cfu/litre	1000	Not Detected
IDENTIFICATION				
Legionella Species	CCFRA 3.9.1 (5 th Edition)	-	-	Absent
Legionella pneumophila sero group 1	CCFRA 3.9.1 (5 th Edition)	-	-	Absent
Legionella pneumophila sero group 2-15	CCFRA 3.9.1 (5 th Edition)	-	-	Absent

REMARKS: The sample meets DM Water Systems quality 2010 specifications for Cooling Water System with respect to the above tests only.

Key Words: CFU: Colony Forming Unit, BS: British Standards, CCFRA: Campden & Chorleywood Food Research Association DM: Dubai Municipality, NA: Not Applicable.

Report prepared by Emp#: 61

Test Method deviation : None

The above test results are only applicable to the sample(s) referred above

Reported By

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LABORATORY MANAGER



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END OF REPORT

TEST REPORT

REPORT NO:-QMTL/R-84755

CLIENT: CRYSTALLINE ENVIRONMENTAL SERVICES P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017		
ATTN: Mr. JASMAN PINTO		
Product: Water	Sampling Method: BS 7592	Sample ID: QMTL/S-84755
Reference: ADIA – CAR PARKING	Sampled By: QMTL Representative	Date Received: 15.12.2019
Sample Description : 06 th Floor- Chilled Water Sample Onsite Temp: 8.1°C Sample Receipt Temp: 16°C	Source: Valve	Date(s) Tested: 15-25.12.2019
	Sample Container: 1x1 L PB	Date Reported: 28.12.2019
	Sample Appearance: Clear	Date of Sampling/Time: 15.12.2019/02.15 PM
On-Site Treatment: NA	Tested by Emp#: 55 & 74	Location: AUH

TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	LIMITS	RESULTS
LEGIONELLA ANALYSIS				
Legionella	CCFRA 3.9.1 (5 th Edition)	cfu/litre	1000	Not Detected
IDENTIFICATION				
Legionella Species	CCFRA 3.9.1 (5 th Edition)	-	-	Absent
Legionella pneumophila sero group 1	CCFRA 3.9.1 (5 th Edition)	-	-	Absent
Legionella pneumophila sero group 2-15	CCFRA 3.9.1 (5 th Edition)	-	-	Absent

REMARKS: The sample meets DM Water Systems quality 2010 specifications for Cooling Water System with respect to the above tests only.

Key Words: CFU: Colony Forming Unit, BS: British Standards, CCFRA: Campden & Chorleywood Food Research Association DM: Dubai Municipality, NA: Not Applicable.

Report prepared by Emp#: 61

Test Method deviation : None

The above test results are only applicable to the sample(s) referred above

Reported By

ANILA GEORGE
LABORATORY MANAGER



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END OF REPORT

TEST REPORT

REPORT NO:-QMTL/R-84758

CLIENT: CRYSTALLINE ENVIRONMENTAL SERVICES P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017		
ATTN: Mr. JASMAN PINTO		
Product: Water	Sampling Method: BS 7592	Sample ID: QMTL/S-84758
Reference: ADIA – CAR PARKING	Sampled By: QMTL Representative	Date Received: 15.12.2019
Sample Description : Roof Chiller Plant Room Chilled Water (Air Cooled) Sample Onsite Temp: 10°C Sample Receipt Temp: 16°C	Source: Valve	Date(s) Tested: 15-25.12.2019
	Sample Container: 1x1 L PB	Date Reported: 28.12.2019
	Sample Appearance: Clear	Date of Sampling/Time: 15.12.2019/03.27 PM
On-Site Treatment: NA	Tested by Emp#: 55 & 74	Location: AUH

TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	LIMITS	RESULTS
LEGIONELLA ANALYSIS				
Legionella	CCFRA 3.9.1 (5 th Edition)	cfu/litre	1000	Not Detected
IDENTIFICATION				
Legionella Species	CCFRA 3.9.1 (5 th Edition)	-	-	Absent
Legionella pneumophila sero group 1	CCFRA 3.9.1 (5 th Edition)	-	-	Absent
Legionella pneumophila sero group 2-15	CCFRA 3.9.1 (5 th Edition)	-	-	Absent

REMARKS: The sample meets DM Water Systems quality 2010 specifications for Cooling Water System with respect to the above tests only.

Key Words: CFU: Colony Forming Unit, BS: British Standards, CCFRA: Campden & Chorleywood Food Research Association DM: Dubai Municipality, NA: Not Applicable.

Report prepared by Emp#: 61

Test Method deviation : None

The above test results are only applicable to the sample(s) referred above

Reported By

ANILA GEORGE
LABORATORY MANAGER



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END OF REPORT

CHILLED WATER ANALYSIS REPORT

Client Name: SERCO, MIDDLE EAST			
Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	15-12-2019
Sampled By	Crystalline Rep	Sample Location	ADIA -Car Parking
Sample Type	Chilled Water	Sample Point	GF-Chiller Yard - Water Cooled

TEST RESULT

No	PARAMETER	CONTROL LIMITS	TEST RESULTS
1	pH at 25°C	9.0 - 10.5	9.01
2	Conductivity at 25°C, µs/cm	Max 3500	1030
3	TDS, ppm	---	669
4	Iron, ppm as Fe	0 - 2.0	0.07
5	Nitrite, ppm.	>800	<5
6	Dip slide	<10 ³	ND

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

COMMENTS AND RECOMMENDATIONS

- pH Levels are satisfactory - No action recommended.
- Nitrite levels are low - Please maintain the nitrite level above 800PPM

Reported By,
Murugaraj
Service Engineer



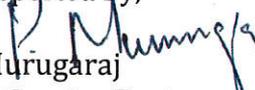
CHILLED WATER ANALYSIS REPORT

Client Name: SERCO, MIDDLE EAST			
Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	15-12-2019
Sampled By	Crystalline Rep	Sample Location	ADIA -Car Parking
Sample Type	Chilled Water	Sample Point	Roof Top Chiller Yard - Air Cooled

TEST RESULT			
No	PARAMETER	CONTROL LIMITS	TEST RESULTS
1	pH at 25°C	9.0 - 10.5	10.37
2	Conductivity at 25°C, µs/cm	Max 3500	1070
3	TDS, ppm	---	695
4	Iron, ppm as Fe	0 - 2.0	0.13
5	Nitrite, ppm.	>800	490
6	Dip slide	<10 ³	ND

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

COMMENTS AND RECOMMENDATIONS
<ul style="list-style-type: none"> pH Levels are satisfactory - No action recommended. Nitrite levels are low - Please maintain the nitrite level above 800PPM

Reported By,

 Murugaraj
 Service Engineer



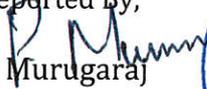
CHILLED WATER ANALYSIS REPORT

Client Name: SERCO, MIDDLE EAST			
Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	15-12-2019
Sampled By	Crystalline Rep	Sample Location	ADIA -Car Parking
Sample Type	Chilled Water	Sample Point	GF-Secondary Pump Room

TEST RESULT			
No	PARAMETER	CONTROL LIMITS	TEST RESULTS
1	pH at 25°C	9.0 - 10.5	10.43
2	Conductivity at 25°C, µs/cm	Max 3500	1262
3	TDS, ppm	---	820
4	Iron, ppm as Fe	0 - 2.0	0.17
5	Nitrite, ppm.	>800	570
6	Dip slide	<10 ³	ND

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

COMMENTS AND RECOMMENDATIONS
<ul style="list-style-type: none"> pH Levels are satisfactory - No action recommended. Nitrite levels are low - Please maintain the nitrite level above 800PPM

Reported By,

 Murugara
 Service Engineer



CHILLED WATER ANALYSIS REPORT

Client Name: SERCO, MIDDLE EAST			
Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	15-12-2019
Sampled By	Crystalline Rep	Sample Location	ADIA -Car Parking
Sample Type	Chilled Water	Sample Point	B2-Chilled Water

TEST RESULT			
No	PARAMETER	CONTROL LIMITS	TEST RESULTS
1	pH at 25°C	9.0 - 10.5	10.49
2	Conductivity at 25°C, µs/cm	Max 3500	1274
3	TDS, ppm	---	828
4	Iron, ppm as Fe	0 - 2.0	0.05
5	Nitrite, ppm.	>800	530
6	Dip slide	<10 ³	ND

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

COMMENTS AND RECOMMENDATIONS
<ul style="list-style-type: none"> pH Levels are satisfactory - No action recommended. Nitrite levels are low - Please maintain the nitrite level above 800PPM

Reported By,

 Murugara
 Service Engineer



CHILLED WATER ANALYSIS REPORT

Client Name: SERCO, MIDDLE EAST

Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	15-12-2019
Sampled By	Crystalline Rep	Sample Location	ADIA -Car Parking
Sample Type	Chilled Water	Sample Point	L-06, Chilled Water

TEST RESULT

No	PARAMETER	CONTROL LIMITS	TEST RESULTS
1	pH at 25°C	9.0 - 10.5	10.48
2	Conductivity at 25°C, $\mu\text{s}/\text{cm}$	Max 3500	1267
3	TDS, ppm	---	823
4	Iron, ppm as Fe	0 - 2.0	0.09
5	Nitrite, ppm.	>800	610
6	Dip slide	<10 ³	ND

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

COMMENTS AND RECOMMENDATIONS

- pH Levels are satisfactory - No action recommended.
- Nitrite levels are low - Please maintain the nitrite level above 800PPM

Reported By,
Murugara
Service Engineer



CHILLED WATER ANALYSIS REPORT

Client Name: SERCO, MIDDLE EAST			
Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	14-12-2019
Sampled By	Crystalline Rep	Sample Location	ADIA -HQ
Sample Type	Chilled Water	Sample Point	HQ-Basement Chilled Water

TEST RESULT			
No	PARAMETER	CONTROL LIMITS	TEST RESULTS
1	pH at 25°C	9.0 - 10.5	10.14
2	Conductivity at 25°C, µs/cm	Max 3500	1145
3	TDS, ppm	---	744
4	Iron, ppm as Fe	0 - 2.0	0.31
5	Nitrite, ppm.	>800	480
6	Dip slide	<10 ³	ND

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

COMMENTS AND RECOMMENDATIONS	
	• pH Levels are satisfactory – No action recommended.
	• Nitrite levels are low – Please maintain the nitrite level above 800PPM

Reported By,
Murugara
Service Engineer



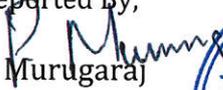
CHILLED WATER ANALYSIS REPORT

Client Name: SERCO, MIDDLE EAST			
Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	14-12-2019
Sampled By	Crystalline Rep	Sample Location	ADIA -HQ
Sample Type	Chilled Water	Sample Point	HQ-L-15 - Plant Room

TEST RESULT			
No	PARAMETER	CONTROL LIMITS	TEST RESULTS
1	pH at 25°C	9.0 - 10.5	10.49
2	Conductivity at 25°C, µs/cm	Max 3500	1265
3	TDS, ppm	---	822
4	Iron, ppm as Fe	0 - 2.0	0.12
5	Nitrite, ppm.	>800	490
6	Dip slide	<10 ³	ND

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

COMMENTS AND RECOMMENDATIONS
<ul style="list-style-type: none"> pH Levels are satisfactory – No action recommended. Nitrite levels are low – Please maintain the nitrite level above 800PPM

Reported By,

 Murugara
 Service Engineer



CHILLED WATER ANALYSIS REPORT

Client Name: SERCO, MIDDLE EAST			
Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	14-12-2019
Sampled By	Crystalline Rep	Sample Location	ADIA -HQ
Sample Type	Chilled Water	Sample Point	HQ-L-32 Chilled Water

TEST RESULT			
No	PARAMETER	CONTROL LIMITS	TEST RESULTS
1	pH at 25°C	9.0 - 10.5	9.43
2	Conductivity at 25°C, µs/cm	Max 3500	2050
3	TDS, ppm	---	1332
4	Iron, ppm as Fe	0 - 2.0	0.14
5	Nitrite, ppm.	>800	980
6	Dip slide	<10 ³	ND

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

COMMENTS AND RECOMMENDATIONS
<ul style="list-style-type: none"> pH Levels are satisfactory - No action recommended. Nitrite Levels are satisfactory - No action recommended.

Reported By,
Murugaraj
Service Engineer



CHILLED WATER ANALYSIS REPORT

Client Name: SERCO, MIDDLE EAST			
Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	15-12-2019
Sampled By	Crystalline Rep	Sample Location	ADIA -HQ
Sample Type	Chilled Water	Sample Point	HQ-L-37 Chilled Water

TEST RESULT			
No	PARAMETER	CONTROL LIMITS	TEST RESULTS
1	pH at 25°C	9.0 - 10.5	9.95
2	Conductivity at 25°C, µs/cm	Max 3500	213
3	TDS, ppm	---	138
4	Iron, ppm as Fe	0 - 2.0	0.08
5	Nitrite, ppm.	>800	30
6	Dip slide	<10 ³	ND

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

COMMENTS AND RECOMMENDATIONS
<ul style="list-style-type: none"> pH Levels are satisfactory - No action recommended. Nitrite levels are low - Please maintain the nitrite level above 800PPM

Reported By,
Murugara
Service Engineer

