

**TEST REPORT**

REPORT NO:-QMTL/R-80692

<b>CLIENT:- CRYSTALLINE ENVIRONMENTAL SERVICES</b> P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017		
<b>ATTN: Mr. JASMAN PINTO</b>		
Product: Water	Sampling Method: NA	Sample ID: QMTL/S-80692
Reference: SERCO MIDDLE EAST Site: ADIA- BUSINESS RECOVERY CENTRE (BRC)	Sampled By: Client Representative	Date Received: 19.11.2019
<b>Sample Description:</b> Ground Floor Pantry- Hot Water Sample Onsite Temp: 41°C Sample Receipt Temp: 15.4°C	Source: Tap	Date(s) Tested: 19-21.11.2019
	Sample Container: 1x500 ml PB	Date Reported: 25.11.2019
	Sample Appearance: Clear	Date of Sampling/Time: NA
On-Site Treatment: NA	Tested by Emp#: 74 & 55	Location: AUH

**TEST RESULTS**

PARAMETERS	TEST METHODS (APHA 23 <sup>RD</sup> EDITION)	UNITS	SPECIFICATIONS	RESULTS
<b>MICROBIOLOGICAL ANALYSIS</b>				
Total Bacterial Count	APHA 9215 B	CFU/ml	10@37°C	2
Total Coliforms	APHA 9222 B	CFU/100ml	Zero	Zero
Faecal coliform	APHA 9222 D	CFU/100ml	Zero	Zero
Pseudomonas aeruginosa	APHA 9213 E	CFU/100ml	Zero	Zero
Escherichia coli	APHA 9222 H & I	CFU/100ml	Zero	Zero

REMARKS: The sample meets RSB Water Quality Regulations (4<sup>th</sup> Edition) January 2014 requirements for potable water with respect to the above tests only.

Key Words:- CFU: Colony Forming Unit, APHA: American Public Health Association, RSB: Regulation & Supervision Bureau, 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-80695

<b>CLIENT:- CRYSTALLINE ENVIRONMENTAL SERVICES</b> P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017		
<b>ATTN: Mr. JASMAN PINTO</b>		
Product: Water	Sampling Method: NA	Sample ID: QMTL/S-80695
Reference: <b>SERCO MIDDLE EAST</b> Site: <b>ADIA- BUSINESS RECOVERY CENTRE (BRC)</b>	Sampled By: Client Representative	Date Received: 19.11.2019
<b>Sample Description:</b> Ground Floor Kitchen- Hot Water Sample Onsite Temp: 38°C Sample Receipt Temp: 15.4°C	Source: Tap	Date(s) Tested: 19-21.11.2019
	Sample Container: 1x500 ml PB	Date Reported: 25.11.2019
Sample Appearance: Clear		Date of Sampling/Time: NA
On-Site Treatment: NA	Tested by Emp#: 74 & 55	Location: AUH

**TEST RESULTS**

PARAMETERS	TEST METHODS (APHA 23 <sup>RD</sup> EDITION)	UNITS	SPECIFICATIONS	RESULTS
<b>MICROBIOLOGICAL ANALYSIS</b>				
Total Bacterial Count	APHA 9215 B	CFU/ml	10@37°C	<b>10</b>
Total Coliforms	APHA 9222 B	CFU/100ml	Zero	<b>Zero</b>
Faecal coliform	APHA 9222 D	CFU/100ml	Zero	<b>Zero</b>
Pseudomonas aeruginosa	APHA 9213 E	CFU/100ml	Zero	<b>Zero</b>
Escherichia coli	APHA 9222 H & I	CFU/100ml	Zero	<b>Zero</b>

REMARKS: The sample meets RSB Water Quality Regulations (4<sup>th</sup> Edition) January 2014 requirements for potable water with respect to the above tests only.

Key Words:- CFU: Colony Forming Unit, APHA: American Public Health Association, RSB: Regulation & Supervision Bureau, 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-80697

<b>CLIENT:- CRYSTALLINE ENVIRONMENTAL SERVICES</b> P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017		
<b>ATTN: Mr. JASMAN PINTO</b>		
Product: Water	Sampling Method: NA	Sample ID: QMTL/S-80697
Reference: SERCO MIDDLE EAST Site: ADIA- BUSINESS RECOVERY CENTRE (BRC)	Sampled By: Client Representative	Date Received: 19.11.2019
<b>Sample Description:</b> Ground Floor, Male Wash Room- Hot Water Sample Onsite Temp: 46°C Sample Receipt Temp: 15.4°C	Source: Tap	Date(s) Tested: 19-21.11.2019
	Sample Container: 1x500 ml PB	Date Reported: 25.11.2019
	Sample Appearance: Clear	Date of Sampling/Time: NA
On-Site Treatment: NA	Tested by Emp#: 74 & 55	Location: AUH

**TEST RESULTS**

PARAMETERS	TEST METHODS (APHA 23 <sup>RD</sup> EDITION)	UNITS	SPECIFICATIONS	RESULTS
<b>MICROBIOLOGICAL ANALYSIS</b>				
Total Bacterial Count	APHA 9215 B	CFU/ml	10@37°C	<b>9</b>
Total Coliforms	APHA 9222 B	CFU/100ml	Zero	<b>Zero</b>
Faecal coliform	APHA 9222 D	CFU/100ml	Zero	<b>Zero</b>
Pseudomonas aeruginosa	APHA 9213 E	CFU/100ml	Zero	<b>Zero</b>
Escherichia coli	APHA 9222 H & I	CFU/100ml	Zero	<b>Zero</b>

REMARKS: The sample meets RSB Water Quality Regulations (4<sup>th</sup> Edition) January 2014 requirements for potable water with respect to the above tests only.

Key Words:- CFU: Colony Forming Unit, APHA: American Public Health Association, RSB: Regulation & Supervision Bureau, 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-80699

<b>CLIENT:- CRYSTALLINE ENVIRONMENTAL SERVICES</b> P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017		
<b>ATTN: Mr. JASMAN PINTO</b>		
Product: Water	Sampling Method: NA	Sample ID: QMTL/S-80699
Reference: SERCO MIDDLE EAST Site: ADIA- BUSINESS RECOVERY CENTRE (BRC)	Sampled By: Client Representative	Date Received: 19.11.2019
<b>Sample Description:</b> Mezzanine Floor, Male Wash Room- Hot Water Sample Onsite Temp: 51°C Sample Receipt Temp: 15.4°C	Source: Tap	Date(s) Tested: 19-21.11.2019
	Sample Container: 1x500 ml PB	Date Reported: 25.11.2019
	Sample Appearance: Clear	Date of Sampling/Time: NA
On-Site Treatment: NA	Tested by Emp#: 74 & 55	Location: AUH

**TEST RESULTS**

PARAMETERS	TEST METHODS (APHA 23 <sup>RD</sup> EDITION)	UNITS	SPECIFICATIONS	RESULTS
<b>MICROBIOLOGICAL ANALYSIS</b>				
Total Bacterial Count	APHA 9215 B	CFU/ml	10@37°C	<b>10</b>
Total Coliforms	APHA 9222 B	CFU/100ml	Zero	<b>Zero</b>
Faecal coliform	APHA 9222 D	CFU/100ml	Zero	<b>Zero</b>
Pseudomonas aeruginosa	APHA 9213 E	CFU/100ml	Zero	<b>Zero</b>
Escherichia coli	APHA 9222 H & I	CFU/100ml	Zero	<b>Zero</b>

REMARKS: The sample meets RSB Water Quality Regulations (4<sup>th</sup> Edition) January 2014 requirements for potable water with respect to the above tests only.

Key Words:- CFU: Colony Forming Unit, APHA: American Public Health Association, RSB: Regulation & Supervision Bureau, 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**

## POTABLE WATER ANALYSIS REPORT

<b>Client Name: SERCO, MIDDLE EAST</b>			
<b>Site location</b>	Abu Dhabi Investment Authority, Abu Dhabi	<b>Service Visit:</b>	19/11/2019
<b>Sampled By</b>	Crystalline Rep	<b>Location</b>	ADIA - BRC
<b>Sample Type</b>	Potable Water (Hot Outlet)	<b>Sample Point</b>	Ground Floor Pantry

	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	8.36
2	Conductivity at 25°C, $\mu\text{s/cm}$	----	241
3	Total Dissolved Solids (TDS)	Max 1000	156
4	Odor	Unobjectionable	ND
5	Turbidity (including suspended solids)	4.0	<1.0
6	Residual Chlorine	0.2 - 0.5	<0.03
7	Calcium Hardness at 25°C	200	43
8	Total Hardness at 25°C	300	49

### Inorganic Chemical Parameters

1	Sulphate	Max 250.0	<10
2	Chlorides	Max 250.0	32
3	Iron	Max 0.2	<0.05
4	Copper	Max 1.0	<0.05
5	Zinc	Max 5.0	<0.05
6	Nitrate	Max 50.0	<1.0
7	Nitrite	Max 3.0	<0.05
8	potassium	Max 12.0	<5.0
9	Aluminium	Max 0.2	<0.05

\*\*\* All test results expressed in parts per million (ppm) as  $\text{CaCO}_3$  except pH and conductivity ( $\mu\text{mhos}$ ).

### COMMENTS AND RECOMMENDATIONS

1	PH, Conductivity & TDS levels are normal
2	Residual chlorine level is low, kindly maintain the level with in the control limit
3	Calcium hardness and Total Hardness levels are satisfactory
4	All inorganic parameters are within the control limit

Reported By,

Murugaraaj

Service Engineer



## POTABLE WATER ANALYSIS REPORT

**Client Name: SERCO, MIDDLE EAST**

<b>Site location</b>	<b>Abu Dhabi Investment Authority, Abu Dhabi</b>	<b>Service Visit:</b>	<b>19/11/2019</b>
<b>Sampled By</b>	<b>Crystalline Rep</b>	<b>Location</b>	<b>ADIA - BRC</b>
<b>Sample Type</b>	<b>Potable Water (Hot Outlet)</b>	<b>Sample Point</b>	<b>Ground Floor Kitchen</b>

	<b>Parameter</b>	<b>Control Limits</b>	<b>Test Results</b>
1	pH at 25°C	7.0 - 9.2	8.13
2	Conductivity at 25°C, $\mu\text{s/cm}$	----	239
3	Total Dissolved Solids (TDS)	Max 1000	155
4	Odor	Unobjectionable	ND
5	Turbidity (including suspended solids)	4.0	<1.0
6	Residual Chlorine	0.2 - 0.5	<0.03
7	Calcium Hardness at 25°C	200	51
8	Total Hardness at 25°C	300	55

### Inorganic Chemical Parameters

1	Sulphate	Max 250.0	<10
2	Chlorides	Max 250.0	32
3	Iron	Max 0.2	<0.05
4	Copper	Max 1.0	<0.05
5	Zinc	Max 5.0	<0.05
6	Nitrate	Max 50.0	<1.0
7	Nitrite	Max 3.0	<0.05
8	potassium	Max 12.0	<5.0
9	Aluminium	Max 0.2	<0.05

\*\*\* All test results expressed in parts per million (ppm) as  $\text{CaCO}_3$  except pH and conductivity ( $\mu\text{mhos}$ ).

### COMMENTS AND RECOMMENDATIONS

1	PH, Conductivity & TDS levels are normal
2	Residual chlorine level is low, kindly maintain the level with in the control limit
3	Calcium hardness and Total Hardness levels are satisfactory
4	All inorganic parameters are within the control limit

Reported By,

Murugaraaj

Service Engineer



## POTABLE WATER ANALYSIS REPORT

**Client Name: SERCO, MIDDLE EAST**

<b>Site location</b>	<b>Abu Dhabi Investment Authority, Abu Dhabi</b>	<b>Service Visit:</b>	<b>19/11/2019</b>
<b>Sampled By</b>	<b>Crystalline Rep</b>	<b>Location</b>	<b>ADIA - BRC</b>
<b>Sample Type</b>	<b>Potable Water (Hot Outlet)</b>	<b>Sample Point</b>	<b>Ground Floor Wash Room</b>

	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	8.34
2	Conductivity at 25°C, $\mu\text{S}/\text{cm}$	----	227
3	Total Dissolved Solids (TDS)	Max 1000	147
4	Odor	Unobjectionable	ND
5	Turbidity (including suspended solids)	4.0	<1.0
6	Residual Chlorine	0.2 - 0.5	<0.03
7	Calcium Hardness at 25°C	200	49
8	Total Hardness at 25°C	300	54

### Inorganic Chemical Parameters

1	Sulphate	Max 250.0	<10
2	Chlorides	Max 250.0	30
3	Iron	Max 0.2	<0.05
4	Copper	Max 1.0	<0.05
5	Zinc	Max 5.0	<0.05
6	Nitrate	Max 50.0	<1.0
7	Nitrite	Max 3.0	<0.05
8	potassium	Max 12.0	<5.0
9	Aluminium	Max 0.2	<0.05

\*\*\* All test results expressed in parts per million (ppm) as  $\text{CaCO}_3$  except pH and conductivity ( $\mu\text{mhos}$ ).

### COMMENTS AND RECOMMENDATIONS

1	PH, Conductivity & TDS levels are normal
2	Residual chlorine level is low, kindly maintain the level with in the control limit
3	Calcium hardness and Total Hardness levels are satisfactory
4	All inorganic parameters are within the control limit

Reported By,  
Murugaraaj  
Service Engineer



## POTABLE WATER ANALYSIS REPORT

**Client Name: SERCO, MIDDLE EAST**

<b>Site location</b>	<b>Abu Dhabi Investment Authority, Abu Dhabi</b>	<b>Service Visit:</b>	<b>19/11/2019</b>
<b>Sampled By</b>	<b>Crystalline Rep</b>	<b>Location</b>	<b>ADIA - BRC</b>
<b>Sample Type</b>	<b>Potable Water (Hot Outlet)</b>	<b>Sample Point</b>	<b>Mezzanine Floor Wash Room</b>

	<b>Parameter</b>	<b>Control Limits</b>	<b>Test Results</b>
1	pH at 25°C	7.0 - 9.2	8.31
2	Conductivity at 25°C, $\mu\text{s/cm}$	----	218
3	Total Dissolved Solids (TDS)	Max 1000	141
4	Odor	Unobjectionable	ND
5	Turbidity (including suspended solids)	4.0	<1.0
6	Residual Chlorine	0.2 - 0.5	<0.03
7	Calcium Hardness at 25°C	200	45
8	Total Hardness at 25°C	300	51

### Inorganic Chemical Parameters

1	Sulphate	Max 250.0	<10
2	Chlorides	Max 250.0	36
3	Iron	Max 0.2	<0.05
4	Copper	Max 1.0	<0.05
5	Zinc	Max 5.0	<0.05
6	Nitrate	Max 50.0	<1.0
7	Nitrite	Max 3.0	<0.05
8	potassium	Max 12.0	<5.0
9	Aluminium	Max 0.2	<0.05

\*\*\* All test results expressed in parts per million (ppm) as  $\text{CaCO}_3$  except pH and conductivity ( $\mu\text{mhos}$ ).

### COMMENTS AND RECOMMENDATIONS

1	PH, Conductivity & TDS levels are normal
2	Residual chlorine level is low, kindly maintain the level with in the control limit
3	Calcium hardness and Total Hardness levels are satisfactory
4	All inorganic parameters are within the control limit

Reported By,  
*Murugaraaj*  
Murugaraaj  
Service Engineer

