

## TEST REPORT

Report No: QMTL/R-152475/2021

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-152475
ATTN : MR. JASMAN PINTO		Date Received	10 Mar 2021
		Date(s) Tested	10 Mar 2021 - 12 Mar 2021
		Date Reported	16 Mar 2021
Sample Description	SV 1, Raw Water		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	Zayed University	Sampling Date/Time	10.03.2021 / 11:00 AM
Sample Container	1x500ml PB	Sampling Point	Tank (RCC)
Sample Receipt Temp	4°C	Sample Onsite Temp	30.2°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

## TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>MICROBIOLOGICAL PARAMETERS</b>				
Total Bacterial Count*	APHA 9215 B -23rd Edition	CFU/ml	-	7
Total Coliforms*	APHA 9222 B -23rd Edition	CFU/100 ml	Zero	Zero
Fecal Coliforms*	APHA 9222 D -23rd Edition	CFU/100 ml	Zero	Zero
Pseudomonas aeruginosa*	APHA 9213 E -23rd Edition	CFU/100 ml	Zero	Zero
E.coli*	APHA 9222 I -23rd Edition	CFU/100 ml	Zero	Zero

The Analysis results denoted by (\*) are part of the laboratory ENAS Accreditation to ISO/IEC 17025 : 2017.

Remarks	The sample meets Department of Energy Water Quality Regulations (5th Edition/Document No-DoE/PD/R01/003)Jan-2021 requirements for potable water with respect to the above tests only.
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Keywords	CFU: Colony Forming Unit, APHA: American Public Health Association, DoE: Department of Energy, NP: Not Provided, NA: Not Applicable, WI: Work Instruction
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Test method deviation	None
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Test performed by Emp#	103 & 14
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Report prepared by Emp#	72
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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-152476/2021

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-152476
ATTN : MR. JASMAN PINTO		Date Received	10 Mar 2021
		Date(s) Tested	10 Mar 2021 - 12 Mar 2021
		Date Reported	16 Mar 2021
Sample Description	SV 1, Filter Water		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	Zayed University	Sampling Date/Time	10.03.2021 / 11:10 AM
Sample Container	1x500ml PB	Sampling Point	Tank (RCC)
Sample Receipt Temp	4°C	Sample Onsite Temp	29.3°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

## TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>MICROBIOLOGICAL PARAMETERS</b>				
Total Bacterial Count*	APHA 9215 B -23rd Edition	CFU/ml	-	<1
Total Coliforms*	APHA 9222 B -23rd Edition	CFU/100 ml	Zero	Zero
Fecal Coliforms*	APHA 9222 D -23rd Edition	CFU/100 ml	Zero	Zero
Pseudomonas aeruginosa*	APHA 9213 E -23rd Edition	CFU/100 ml	Zero	Zero
E.coli*	APHA 9222 I -23rd Edition	CFU/100 ml	Zero	Zero

The Analysis results denoted by (\*) are part of the laboratory ENAS Accreditation to ISO/IEC 17025 : 2017.

Remarks	The sample meets Department of Energy Water Quality Regulations (5th Edition/Document No-DoE/PD/R01/003)Jan-2021 requirements for potable water with respect to the above tests only.
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Keywords	CFU: Colony Forming Unit, APHA: American Public Health Association, DoE: Department of Energy, NP: Not Provided, NA: Not Applicable, WI: Work Instruction
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Test method deviation	None
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Test performed by Emp#	103 & 14
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Report prepared by Emp#	72
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END OF REPORT

## TEST REPORT

Report No: QMTL/R-152481/2021

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-152481
ATTN : MR. JASMAN PINTO		Date Received	10 Mar 2021
		Date(s) Tested	10 Mar 2021 - 12 Mar 2021
		Date Reported	16 Mar 2021
Sample Description	SV 2, Raw Water		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	Zayed University	Sampling Date/Time	10.03.2021 / 12:00 PM
Sample Container	1x500ml PB	Sampling Point	Tank (RCC)
Sample Receipt Temp	4°C	Sample Onsite Temp	30.3°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

## TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>MICROBIOLOGICAL PARAMETERS</b>				
Total Bacterial Count*	APHA 9215 B -23rd Edition	CFU/ml	-	2
Total Coliforms*	APHA 9222 B -23rd Edition	CFU/100 ml	Zero	Zero
Fecal Coliforms*	APHA 9222 D -23rd Edition	CFU/100 ml	Zero	Zero
Pseudomonas aeruginosa*	APHA 9213 E -23rd Edition	CFU/100 ml	Zero	Zero
E.coli*	APHA 9222 I -23rd Edition	CFU/100 ml	Zero	Zero

The Analysis results denoted by (\*) are part of the laboratory ENAS Accreditation to ISO/IEC 17025 : 2017.

Remarks	The sample meets Department of Energy Water Quality Regulations (5th Edition/Document No-DoE/PD/R01/003)Jan-2021 requirements for potable water with respect to the above tests only.
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Keywords	CFU: Colony Forming Unit, APHA: American Public Health Association, DoE: Department of Energy, NP: Not Provided, NA: Not Applicable, WI: Work Instruction
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Test method deviation	None
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Test performed by Emp#	103 & 14
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Report prepared by Emp#	72
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## TEST REPORT

Report No: QMTL/R-152482/2021

<b>CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES</b> Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-152482
		Date Received	10 Mar 2021
		Date(s) Tested	10 Mar 2021 - 12 Mar 2021
<b>ATTN : MR. JASMAN PINTO</b>		Date Reported	16 Mar 2021
Sample Description	SV 2, Filtered Water Tank		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	Zayed University	Sampling Date/Time	10.03.2021 / 12:10 PM
Sample Container	1x500ml PB	Sampling Point	Tank (RCC)
Sample Receipt Temp	4°C	Sample Onsite Temp	28.8°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

## TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>MICROBIOLOGICAL PARAMETERS</b>				
Total Bacterial Count*	APHA 9215 B -23rd Edition	CFU/ml	-	8
Total Coliforms*	APHA 9222 B -23rd Edition	CFU/100 ml	Zero	Zero
Fecal Coliforms*	APHA 9222 D -23rd Edition	CFU/100 ml	Zero	Zero
Pseudomonas aeruginosa*	APHA 9213 E -23rd Edition	CFU/100 ml	Zero	Zero
E.coli*	APHA 9222 I -23rd Edition	CFU/100 ml	Zero	Zero

The Analysis results denoted by (\*) are part of the laboratory ENAS Accreditation to ISO/IEC 17025 : 2017.

Remarks	The sample meets Department of Energy Water Quality Regulations (5th Edition/Document No-DoE/PD/R01/003)Jan-2021 requirements for potable water with respect to the above tests only.
Keywords	CFU: Colony Forming Unit, APHA: American Public Health Association, DoE: Department of Energy, NP: Not Provided, NA: Not Applicable, WI: Work Instruction
Test method deviation	None
Test performed by Emp#	103 & 14
Report prepared by Emp#	72
The above test results are only applicable to the sample(s) referred above.	

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## TEST REPORT

Report No: QMTL/R-152483/2021

<b>CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES</b> Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-152483
		Date Received	10 Mar 2021
		Date(s) Tested	10 Mar 2021 - 12 Mar 2021
<b>ATTN : MR. JASMAN PINTO</b>		Date Reported	16 Mar 2021
Sample Description	SV 2, Domestic Water, Infrastructure Building (Male Washroom)		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	Zayed University	Sampling Date/Time	10.03.2021 / 12:20 PM
Sample Container	1x500ml PB	Sampling Point	Tap (Washroom)
Sample Receipt Temp	4°C	Sample Onsite Temp	25.3°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

## TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>MICROBIOLOGICAL PARAMETERS</b>				
Total Bacterial Count*	APHA 9215 B -23rd Edition	CFU/ml	-	4
Total Coliforms*	APHA 9222 B -23rd Edition	CFU/100 ml	Zero	Zero
Fecal Coliforms*	APHA 9222 D -23rd Edition	CFU/100 ml	Zero	Zero
Pseudomonas aeruginosa*	APHA 9213 E -23rd Edition	CFU/100 ml	Zero	Zero
E.coli*	APHA 9222 I -23rd Edition	CFU/100 ml	Zero	Zero

The Analysis results denoted by (\*) are part of the laboratory ENAS Accreditation to ISO/IEC 17025 : 2017.

Remarks	The sample meets Department of Energy Water Quality Regulations (5th Edition/Document No-DoE/PD/R01/003)Jan-2021 requirements for potable water with respect to the above tests only.
Keywords	CFU: Colony Forming Unit, APHA: American Public Health Association, DoE: Department of Energy, NP: Not Provided, NA: Not Applicable, WI: Work Instruction
Test method deviation	None
Test performed by Emp#	103 & 14
Report prepared by Emp#	72
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-152485/2021 Rev.1

<b>CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES</b> Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-152485
		Date Received	10 Mar 2021
		Date(s) Tested	10 Mar 2021 - 12 Mar 2021
<b>ATTN : MR. JASMAN PINTO</b>		Date Reported	31 Mar 2021
Sample Description	<b>Infrastructure Building Female Washroom- Washroom Tap</b>		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	Zayed University	Sampling Date/Time	10.03.2021 / 2:45 PM
Sample Container	1x500ml PB	Sampling Point	Tap (Sink Washroom)
Sample Receipt Temp	4°C	Sample Onsite Temp	24.8°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

## TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>MICROBIOLOGICAL PARAMETERS</b>				
Total Bacterial Count*	APHA 9215 B -23rd Edition	CFU/ml	-	<b>3</b>
Total Coliforms*	APHA 9222 B -23rd Edition	CFU/100 ml	Zero	<b>Zero</b>
Fecal Coliforms*	APHA 9222 D -23rd Edition	CFU/100 ml	Zero	<b>Zero</b>
Pseudomonas aeruginosa*	APHA 9213 E -23rd Edition	CFU/100 ml	Zero	<b>Zero</b>
E.coli*	APHA 9222 I -23rd Edition	CFU/100 ml	Zero	<b>Zero</b>

The Analysis results denoted by (\*) are part of the laboratory ENAS Accreditation to ISO/IEC 17025 : 2017.

Remarks	The sample meets Department of Energy Water Quality Regulations (5th Edition/Document No-DoE/PD/R01/003)Jan-2021 requirements for potable water with respect to the above tests only.
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Keywords	CFU: Colony Forming Unit, APHA: American Public Health Association, DoE: Department of Energy, NP: Not Provided, NA: Not Applicable, WI: Work Instruction
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Test method deviation	None
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Test performed by Emp#	103 & 14
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Report prepared by Emp#	72
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The above test results are only applicable to the sample(s) referred above.

This report supersedes the report number QMTL/R-152485/2021, issued on 16 Mar 2021.

Reported By

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**END OF REPORT**

## TEST REPORT

Report No: QMTL/R-152467/2021

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-152467
ATTN : MR. JASMAN PINTO		Date Received	10 Mar 2021
		Date(s) Tested	10 Mar 2021 - 20 Mar 2021
		Date Reported	22 Mar 2021
Sample Description	SV 1, Raw Water		
Sample Type	Water	Sampling Method	QMTL-WI-16
Client Name/Project	NP	Sampled By	QMTL Representative
Location	Zayed University	Sampling Date/Time	10.03.2021 / 11:00 AM
Sample Container	1x500ml PB	Sampling Point	Tank (RCC)
Sample Receipt Temp	4°C	Sample Onsite Temp	30.2°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

## TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>LEGIONELLA ANALYSIS</b>				
Legionella*	ISO 11731:2017 E (Matrix A-Procedure-5)	CFU/litre	<1	<1
Legionella Species	ISO 11731:2017 E	-	-	Absent
Legionella pneumophila sero group 1	ISO 11731:2017 E	-	-	Absent
Legionella pneumophila sero group 2-15	ISO 11731:2017 E	-	-	Absent

The Analysis result denoted by (\*) is part of the laboratory ENAS Accreditation to ISO/IEC 17025 : 2017.

Remarks	The sample meets Department of Energy Water Quality Regulations (5th Edition/Document No-DoE/PD/R01/003)Jan-2021 requirements for potable water with respect to the above tests only.
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Keywords	CFU: Colony Forming Unit, ISO: International Organization for Standardization, DoE: Department of Energy, NP: Not Provided, NA: Not Applicable, WI: Work Instruction, BCYE: Buffered Charcoal Yeast Extract, Culture Media :- BCYE Agar
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Test method deviation	None
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Test performed by Emp#	103 & 14
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Report prepared by Emp#	72
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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-152468/2021

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-152468
ATTN : MR. JASMAN PINTO		Date Received	10 Mar 2021
		Date(s) Tested	10 Mar 2021 - 20 Mar 2021
		Date Reported	22 Mar 2021
Sample Description	SV 1, Filter Water		
Sample Type	Water	Sampling Method	QMTL-WI-16
Client Name/Project	NP	Sampled By	QMTL Representative
Location	Zayed University	Sampling Date/Time	10.03.2021 / 11:10 AM
Sample Container	1x500ml PB	Sampling Point	Tank (RCC)
Sample Receipt Temp	4°C	Sample Onsite Temp	29.3°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

## TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>LEGIONELLA ANALYSIS</b>				
Legionella*	ISO 11731:2017 E (Matrix A-Procedure-5)	CFU/litre	<1	<1
Legionella Species	ISO 11731:2017 E	-	-	Absent
Legionella pneumophila sero group 1	ISO 11731:2017 E	-	-	Absent
Legionella pneumophila sero group 2-15	ISO 11731:2017 E	-	-	Absent

The Analysis result denoted by (\*) is part of the laboratory ENAS Accreditation to ISO/IEC 17025 : 2017.

Remarks	The sample meets Department of Energy Water Quality Regulations (5th Edition/Document No-DoE/PD/R01/003)Jan-2021 requirements for potable water with respect to the above tests only.
Keywords	CFU: Colony Forming Unit, ISO: International Organization for Standardization, DoE: Department of Energy, NP: Not Provided, NA: Not Applicable, WI: Work Instruction, BCYE: Buffered Charcoal Yeast Extract, Culture Media :- BCYE Agar
Test method deviation	None
Test performed by Emp#	103 & 14
Report prepared by Emp#	72
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-152471/2021

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-152471
ATTN : MR. JASMAN PINTO		Date Received	10 Mar 2021
		Date(s) Tested	10 Mar 2021 - 20 Mar 2021
		Date Reported	22 Mar 2021
Sample Description	SV 2, Raw Water		
Sample Type	Water	Sampling Method	QMTL-WI-16
Client Name/Project	NP	Sampled By	QMTL Representative
Location	Zayed University	Sampling Date/Time	10.03.2021 / 12:00 PM
Sample Container	1x500ml PB	Sampling Point	Tank (RCC)
Sample Receipt Temp	4°C	Sample Onsite Temp	30.3°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

## TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>LEGIONELLA ANALYSIS</b>				
Legionella*	ISO 11731:2017 E (Matrix A-Procedure-5)	CFU/litre	<1	<1
Legionella Species	ISO 11731:2017 E	-	-	Absent
Legionella pneumophila sero group 1	ISO 11731:2017 E	-	-	Absent
Legionella pneumophila sero group 2-15	ISO 11731:2017 E	-	-	Absent

The Analysis result denoted by (\*) is part of the laboratory ENAS Accreditation to ISO/IEC 17025 : 2017.

Remarks	The sample meets Department of Energy Water Quality Regulations (5th Edition/Document No-DoE/PD/R01/003)Jan-2021 requirements for potable water with respect to the above tests only.
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Keywords	CFU: Colony Forming Unit, ISO: International Organization for Standardization, DoE: Department of Energy, NP: Not Provided, NA: Not Applicable, WI: Work Instruction, BCYE: Buffered Charcoal Yeast Extract, Culture Media :- BCYE Agar
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Test method deviation	None
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Test performed by Emp#	103 & 14
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Report prepared by Emp#	72
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## TEST REPORT

Report No: QMTL/R-152472/2021

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-152472
		Date Received	10 Mar 2021
		Date(s) Tested	10 Mar 2021 - 20 Mar 2021
ATTN : MR. JASMAN PINTO		Date Reported	22 Mar 2021
Sample Description	SV 2, Filter Water		
Sample Type	Water	Sampling Method	QMTL-WI-16
Client Name/Project	NP	Sampled By	QMTL Representative
Location	Zayed University	Sampling Date/Time	10.03.2021 / 12:10 PM
Sample Container	1x500ml PB	Sampling Point	Tank (RCC)
Sample Receipt Temp	4°C	Sample Onsite Temp	28.8°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

## TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>LEGIONELLA ANALYSIS</b>				
Legionella*	ISO 11731:2017 E (Matrix A-Procedure-5)	CFU/litre	<1	<1
Legionella Species	ISO 11731:2017 E	-	-	Absent
Legionella pneumophila sero group 1	ISO 11731:2017 E	-	-	Absent
Legionella pneumophila sero group 2-15	ISO 11731:2017 E	-	-	Absent

The Analysis result denoted by (\*) is part of the laboratory ENAS Accreditation to ISO/IEC 17025 : 2017.

Remarks	The sample meets Department of Energy Water Quality Regulations (5th Edition/Document No-DoE/PD/R01/003)Jan-2021 requirements for potable water with respect to the above tests only.
Keywords	CFU: Colony Forming Unit, ISO: International Organization for Standardization, DoE: Department of Energy, NP: Not Provided, NA: Not Applicable, WI: Work Instruction, BCYE: Buffered Charcoal Yeast Extract, Culture Media :- BCYE Agar
Test method deviation	None
Test performed by Emp#	103 & 14
Report prepared by Emp#	72
The above test results are only applicable to the sample(s) referred above.	

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## TEST REPORT

Report No: QMTL/R-152473/2021

<b>CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES</b> Abu Dhabi PO Box : 131463 United Arab Emirates  <b>ATTN : MR. JASMAN PINTO</b>	Sample ID	QMTL/S-152473	
	Date Received	10 Mar 2021	
	Date(s) Tested	10 Mar 2021 - 20 Mar 2021	
	Date Reported	22 Mar 2021	
Sample Description	SV 2, Domestic Water, Infrastructure Building (Male Washroom)		
Sample Type	Water	Sampling Method	QMTL-WI-16
Client Name/Project	NP	Sampled By	QMTL Representative
Location	Zayed University	Sampling Date/Time	10.03.2021 / 12:20 PM
Sample Container	1x500ml PB	Sampling Point	Tap (Washroom)
Sample Receipt Temp	4°C	Sample Onsite Temp	25.3°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

## TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>LEGIONELLA ANALYSIS</b>				
Legionella*	ISO 11731:2017 E (Matrix A-Procedure-5)	CFU/litre	<1	<1
Legionella Species	ISO 11731:2017 E	-	-	Absent
Legionella pneumophila sero group 1	ISO 11731:2017 E	-	-	Absent
Legionella pneumophila sero group 2-15	ISO 11731:2017 E	-	-	Absent

The Analysis result denoted by (\*) is part of the laboratory ENAS Accreditation to ISO/IEC 17025 : 2017.

Remarks	The sample meets Department of Energy Water Quality Regulations (5th Edition/Document No-DoE/PD/R01/003)Jan-2021 requirements for potable water with respect to the above tests only.
Keywords	CFU: Colony Forming Unit, ISO: International Organization for Standardization, DoE: Department of Energy, NP: Not Provided, NA: Not Applicable, WI: Work Instruction, BCYE: Buffered Charcoal Yeast Extract, Culture Media :- BCYE Agar
Test method deviation	None
Test performed by Emp#	103 & 14
Report prepared by Emp#	72
The above test results are only applicable to the sample(s) referred above.	

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## TEST REPORT

Report No: QMTL/R-152474/2021 Rev.1

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-152474
ATTN : MR. JASMAN PINTO		Date Received	10 Mar 2021
		Date(s) Tested	10 Mar 2021 - 20 Mar 2021
		Date Reported	31 Mar 2021
Sample Description	Infrastructure Building Female Washroom- Washroom Tap		
Sample Type	Water	Sampling Method	QMTL-WI-16
Client Name/Project	NP	Sampled By	QMTL Representative
Location	Zayed University	Sampling Date/Time	10.03.2021 / 2:45 PM
Sample Container	1x500ml PB	Sampling Point	Tap (Washroom)
Sample Receipt Temp	4°C	Sample Onsite Temp	24.8°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

## TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>LEGIONELLA ANALYSIS</b>				
Legionella*	ISO 11731:2017 E (Matrix A-Procedure-5)	CFU/litre	<1	<1
Legionella Species	ISO 11731:2017 E	-	-	<b>Absent</b>
Legionella pneumophila sero group 1	ISO 11731:2017 E	-	-	<b>Absent</b>
Legionella pneumophila sero group 2-15	ISO 11731:2017 E	-	-	<b>Absent</b>

The Analysis result denoted by (\*) is part of the laboratory ENAS Accreditation to ISO/IEC 17025 : 2017.

Remarks	The sample meets Department of Energy Water Quality Regulations (5th Edition/Document No-DoE/PD/R01/003)Jan-2021 requirements for potable water with respect to the above tests only.
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Keywords	CFU: Colony Forming Unit, ISO: International Organization for Standardization, DoE: Department of Energy, NP: Not Provided, NA: Not Applicable, WI: Work Instruction, BCYE: Buffered Charcoal Yeast Extract, Culture Media :- BCYE Agar
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Test method deviation	None
Test performed by Emp#	103 & 14
Report prepared by Emp#	72

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

This report supersedes the report number QMTL/R-152474/2021, issued on 22 Mar 2021.

Reported By

**ANILA GEORGE**

**LABORATORY MANAGER**

This report is system generated, signature, stamp/ seal are not required.

The test report shall not be reproduced (except in full) without the written approval of QMTL. When analysis is witnessed by us or carried out by sub contract labs, our responsibility is solely to ensure that the analysis is conducted to standard test methods in accordance with Industry accepted practice.

**END OF REPORT**



# CRYSTALLINE ENVIRONMENTAL SERVICES

## CONSULTING TEST REPORT

<b>CUSTOMER: SERCO MIDDLE EAST</b>	
Site Location: Zayed University, Abu Dhabi	Date: 10-03-2021
Sample Point: SV1, Raw Water Tank	Sample Collected By: Crystalline Rep

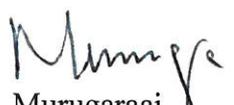
### POTABLE WATER ANALYSIS

PARAMETER	CONTROL LIMITS	POTABLE WATER
pH at 25°C	7.0 - 9.2	7.23
Conductivity at 25°C, $\mu\text{s}/\text{cm}$	1600 Max.	316
Total Dissolved Solids (TDS)	1000 Max.	205
Total Hardness, ppm as $\text{CaCO}_3$	300 Max.	56
Calcium Hardness, ppm as $\text{CaCO}_3$	200 Max.	49
Chlorides ( $\text{Cl}^-$ ), mg/l	250 Max.	53
Sulphate ( $\text{SO}_4$ ), mg/l	250 Max.	<10
Copper (Cu), mg/l	1 Max.	<0.05
Aluminum (Al), mg/l	0.2 Max.	<0.05
Zinc (Zn), mg/l	5 Max.	<0.05
Nitrate ( $\text{NO}_3\text{-N}$ ) mg/l	50 Max.	<1.0
Nitrite ( $\text{NO}_2\text{-}$ ) mg/l	3.0 Max.	<0.1
Fluorides (F)	1.5 Max.	<0.05
Potassium (K)	12 Max.	<5.0
<b>Treatment Residuals</b>		
Odor	Unobjectionable	ND
Turbidity in NTU	4.0 Max.	<1

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

COMMENTS:	ACTION:
The pH and Conductivity/TDS are found satisfactory. $\Rightarrow$	No action recommended.

Reported By

  
Murugaraaj  
Service Engineer



**CLEANER WATER GREENER TOMORROW**



# CRYSTALLINE ENVIRONMENTAL SERVICES

## CONSULTING TEST REPORT

<b>CUSTOMER: SERCO MIDDLE EAST</b>	
Site Location: Zayed University, Abu Dhabi	Date: 10-03-2021
Sample Point: SV1. Filter Water Tank	Sample Collected By: Crystalline Rep

### POTABLE WATER ANALYSIS

PARAMETER	CONTROL LIMITS	POTABLE WATER
pH at 25°C	7.0 - 9.2	7.18
Conductivity at 25°C, $\mu\text{s}/\text{cm}$	1600 Max.	309
Total Dissolved Solids (TDS)	1000 Max.	203
Total Hardness, ppm as $\text{CaCO}_3$	300 Max.	54
Calcium Hardness, ppm as $\text{CaCO}_3$	200 Max.	42
Chlorides ( $\text{Cl}^-$ ), mg/l	250 Max.	56
Sulphate ( $\text{SO}_4$ ), mg/l	250 Max.	<10
Copper (Cu), mg/l	1 Max.	<0.05
Aluminum (Al), mg/l	0.2 Max.	<0.05
Zinc (Zn), mg/l	5 Max.	<0.05
Nitrate ( $\text{NO}_3\text{-N}$ ) mg/l	50 Max.	<1.0
Nitrite ( $\text{NO}_2\text{-}$ ) mg/l	3.0 Max.	<0.1
Fluorides (F)	1.5 Max.	<0.05
Potassium (K)	12 Max.	<5.0
<b>Treatment Residuals</b>		
Odor	Unobjectionable	ND
Turbidity in NTU	4.0 Max.	<1

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

COMMENTS:	ACTION:
The pH and Conductivity/TDS are found satisfactory. $\Rightarrow$	No action recommended.

Reported By

  
Murugaraaj  
Service Engineer



**CLEANER WATER GREENER TOMORROW**



# CRYSTALLINE ENVIRONMENTAL SERVICES

## CONSULTING TEST REPORT

<b>CUSTOMER: SERCO MIDDLE EAST</b>	
Site Location: Zayed University, Abu Dhabi	Date: 10-03-2021
Sample Point: SV2, Raw Water Tank	Sample Collected By: Crystalline Rep

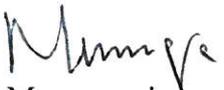
### POTABLE WATER ANALYSIS

PARAMETER	CONTROL LIMITS	POTABLE WATER
pH at 25°C	7.0 - 9.2	7.19
Conductivity at 25°C, $\mu\text{s}/\text{cm}$	1600 Max.	326
Total Dissolved Solids (TDS)	1000 Max.	213
Total Hardness, ppm as $\text{CaCO}_3$	300 Max.	58
Calcium Hardness, ppm as $\text{CaCO}_3$	200 Max.	52
Chlorides ( $\text{Cl}^-$ ), mg/l	250 Max.	59
Sulphate ( $\text{SO}_4$ ), mg/l	250 Max.	<10
Copper (Cu), mg/l	1 Max.	<0.05
Aluminum (Al), mg/l	0.2 Max.	<0.05
Zinc (Zn), mg/l	5 Max.	<0.05
Nitrate ( $\text{NO}_3\text{-N}$ ) mg/l	50 Max.	<1.0
Nitrite ( $\text{NO}_2\text{-}$ ) mg/l	3.0 Max.	<0.1
Fluorides (F)	1.5 Max.	<0.05
Potassium (K)	12 Max.	<5.0
<b>Treatment Residuals</b>		
Odor	Unobjectionable	ND
Turbidity in NTU	4.0 Max.	<1

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

COMMENTS:	ACTION:
The pH and Conductivity/TDS are found satisfactory. $\Rightarrow$	No action recommended.

Reported By

  
Murugaraaj  
Service Engineer



**CLEANER WATER GREENER TOMORROW**



# CRYSTALLINE ENVIRONMENTAL SERVICES

## CONSULTING TEST REPORT

<b>CUSTOMER: SERCO MIDDLE EAST</b>	
Site Location: Zayed University, Abu Dhabi	Date: 10-03-2021
Sample Point: SV2, Filter Water Tank	Sample Collected By: Crystalline Rep

### POTABLE WATER ANALYSIS

PARAMETER	CONTROL LIMITS	POTABLE WATER
pH at 25°C	7.0 - 9.2	7.17
Conductivity at 25°C, µs/cm	1600 Max.	289
Total Dissolved Solids (TDS)	1000 Max.	190
Total Hardness, ppm as CaCO <sub>3</sub>	300 Max.	54
Calcium Hardness, ppm as CaCO <sub>3</sub>	200 Max.	43
Chlorides (Cl <sup>-</sup> ), mg/l	250 Max.	48
Sulphate (SO <sub>4</sub> ), mg/l	250 Max.	<10
Copper (Cu), mg/l	1 Max.	<0.05
Aluminum (Al), mg/l	0.2 Max.	<0.05
Zinc (Zn), mg/l	5 Max.	<0.05
Nitrate (NO <sub>3</sub> -N) mg/l	50 Max.	<1.0
Nitrite (NO <sub>2</sub> -) mg/l	3.0 Max.	<0.1
Fluorides (F)	1.5 Max.	<0.05
Potassium (K)	12 Max.	<5.0
<b>Treatment Residuals</b>		
Odor	Unobjectionable	ND
Turbidity in NTU	4.0 Max.	<1

All test results expressed in parts per million (ppm) as CaCO<sub>3</sub> except pH and conductivity (µmhos)

COMMENTS:	ACTION:
The pH and Conductivity/TDS are found satisfactory. ⇒	No action recommended.

Reported By

  
Murugaraaj  
Service Engineer



**CLEANER WATER GREENER TOMORROW**



# CRYSTALLINE ENVIRONMENTAL SERVICES

## CONSULTING TEST REPORT

<b>CUSTOMER: SERCO MIDDLE EAST</b>	
Site Location: Zayed University, Abu Dhabi	Date: 10-03-2021
Sample Point: SV2, Infrastructure Building, Male Washroom	Sample Collected By: Crystalline Rep

### POTABLE WATER ANALYSIS

PARAMETER	CONTROL LIMITS	POTABLE WATER
pH at 25°C	7.0 - 9.2	7.39
Conductivity at 25°C, µs/cm	1600 Max.	346
Total Dissolved Solids (TDS)	1000 Max.	224
Total Hardness, ppm as CaCO <sub>3</sub>	300 Max.	60
Calcium Hardness, ppm as CaCO <sub>3</sub>	200 Max.	53
Chlorides (Cl <sup>-</sup> ), mg/l	250 Max.	54
Sulphate (SO <sub>4</sub> ), mg/l	250 Max.	<10
Copper (Cu), mg/l	1 Max.	<0.05
Aluminum (Al), mg/l	0.2 Max.	<0.05
Zinc (Zn), mg/l	5 Max.	<0.05
Nitrate (NO <sub>3</sub> -N) mg/l	50 Max.	<1.0
Nitrite (NO <sub>2</sub> -) mg/l	3.0 Max.	<0.1
Fluorides (F)	1.5 Max.	<0.05
Potassium (K)	12 Max.	<5.0
<b>Treatment Residuals</b>		
Odor	Unobjectionable	ND
Turbidity in NTU	4.0 Max.	<1

All test results expressed in parts per million (ppm) as CaCO<sub>3</sub> except pH and conductivity (µmhos)

COMMENTS:	ACTION:
The pH and Conductivity/TDS are found satisfactory. ⇒	No action recommended.

Reported By

  
Murugaraaj  
Service Engineer



**CLEANER WATER GREENER TOMORROW**



# CRYSTALLINE ENVIRONMENTAL SERVICES

## CONSULTING TEST REPORT

<b>CUSTOMER: SERCO MIDDLE EAST</b>	
Site Location: Zayed University, Abu Dhabi	Date: 10-03-2021
Sample Point: Infrastructure Building, Female Washroom Tap	Sample Collected By: Crystalline Rep

### POTABLE WATER ANALYSIS

PARAMETER	CONTROL LIMITS	POTABLE WATER
pH at 25°C	7.0 - 9.2	7.31
Conductivity at 25°C, $\mu\text{s}/\text{cm}$	1600 Max.	330
Total Dissolved Solids (TDS)	1000 Max.	214
Total Hardness, ppm as $\text{CaCO}_3$	300 Max.	58
Calcium Hardness, ppm as $\text{CaCO}_3$	200 Max.	50
Chlorides ( $\text{Cl}^-$ ), mg/l	250 Max.	48
Sulphate ( $\text{SO}_4$ ), mg/l	250 Max.	<10
Copper (Cu), mg/l	1 Max.	<0.05
Aluminum (Al), mg/l	0.2 Max.	<0.05
Zinc (Zn), mg/l	5 Max.	<0.05
Nitrate ( $\text{NO}_3\text{-N}$ ) mg/l	50 Max.	<1.0
Nitrite ( $\text{NO}_2\text{-}$ ) mg/l	3.0 Max.	<0.1
Fluorides (F)	1.5 Max.	<0.05
Potassium (K)	12 Max.	<5.0
<b>Treatment Residuals</b>		
Odor	Unobjectionable	ND
Turbidity in NTU	4.0 Max.	<1

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

COMMENTS:	ACTION:
The pH and Conductivity/TDS are found satisfactory. $\Rightarrow$	No action recommended.

Reported By

  
Murugaraaj  
Service Engineer

