

TEST REPORT

Report No: QMTL/R-152478/2021

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-152478
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	Irrigation 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 / 11:30 AM
Sample Container	1x500ml PB	Sampling Point	Tank (RCC)
Sample Receipt Temp	4°C	Sample Onsite Temp	35.8°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
MICROBIOLOGICAL PARAMETERS				
Total Bacterial Count*	APHA 9215 B -23rd Edition	CFU/ml	-	390
Total Coliforms*	APHA 9222 B -23rd Edition	CFU/100 ml	-	Zero
Fecal Coliforms*	APHA 9222 D -23rd Edition	CFU/100 ml	23	Zero
Pseudomonas aeruginosa*	APHA 9213 E -23rd Edition	CFU/100 ml	-	Zero
E.coli*	APHA 9222 I -23rd Edition	CFU/100 ml	23	Zero

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

Remarks	The sample meets RSB Recycled Water and Biosolids Regulations 2018 requirements for irrigation water with respect to the above tests only.
Keywords	CFU: Colony Forming Unit, APHA: American Public Health Association, RSB: Regulation & Supervision Bureau, 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.	

Reported By
ANILA GEORGE
LABORATORY MANAGER

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END OF REPORT

TEST REPORT

Report No: QMTL/R-152907/2021

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-152907
		Date Received	10 Mar 2021
		Date(s) Tested	10 Mar 2021 - 12 Mar 2021
ATTN : MURUGARAJ		Date Reported	05 Apr 2021
Sample Description	Courtyard Male Side		
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 / 1:10 PM
Sample Container	1x500ml PB	Sampling Point	Irrigation Water Sprinkler Outlet
Sample Receipt Temp	4°C	Sample Onsite Temp	30°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
MICROBIOLOGICAL PARAMETERS				
Total Bacterial Count*	APHA 9215 B -23rd Edition	CFU/ml	-	270
Total Coliforms*	APHA 9222 B -23rd Edition	CFU/100 ml	-	Zero
Fecal Coliforms*	APHA 9222 D -23rd Edition	CFU/100 ml	23	Zero
Pseudomonas aeruginosa*	APHA 9213 E -23rd Edition	CFU/100 ml	-	Zero
E.coli*	APHA 9222 I -23rd Edition	CFU/100 ml	23	Zero

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

Remarks	The sample meets RSB Recycled Water and Biosolids Regulations 2018 requirements for irrigation water with respect to the above tests only.
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Keywords	CFU: Colony Forming Unit, APHA: American Public Health Association, RSB: Regulation & Supervision Bureau, 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-152906/2021

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-152906
ATTN : MURUGARAAJ		Date Received	10 Mar 2021
		Date(s) Tested	10 Mar 2021 - 12 Mar 2021
		Date Reported	05 Apr 2021
Sample Description	Courtyard Female Side		
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 / 1:00 PM
Sample Container	1x500ml PB	Sampling Point	Irrigation Water Sprinkler Outlet
Sample Receipt Temp	4°C	Sample Onsite Temp	28°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
MICROBIOLOGICAL PARAMETERS				
Total Bacterial Count*	APHA 9215 B -23rd Edition	CFU/ml	-	210
Total Coliforms*	APHA 9222 B -23rd Edition	CFU/100 ml	-	Zero
Fecal Coliforms*	APHA 9222 D -23rd Edition	CFU/100 ml	23	Zero
Pseudomonas aeruginosa*	APHA 9213 E -23rd Edition	CFU/100 ml	-	Zero
E.coli*	APHA 9222 I -23rd Edition	CFU/100 ml	23	Zero

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

Remarks	The sample meets RSB Recycled Water and Biosolids Regulations 2018 requirements for irrigation water with respect to the above tests only.
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Keywords	CFU: Colony Forming Unit, APHA: American Public Health Association, RSB: Regulation & Supervision Bureau, 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-152479/2021 Rev.1

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates ATTN : MR. JASMAN PINTO	Sample ID	QMTL/S-152479	
	Date Received	10 Mar 2021	
	Date(s) Tested	10 Mar 2021 - 12 Mar 2021	
	Date Reported	05 Apr 2021	
Sample Description	FF2 Irrigation Water - Irrigation Water Sprinkler Outlet		
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 / 11:40 AM
Sample Container	1x500ml PB	Sampling Point	Sprinkler Garden
Sample Receipt Temp	4°C	Sample Onsite Temp	28.4°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
MICROBIOLOGICAL PARAMETERS				
Total Bacterial Count*	APHA 9215 B -23rd Edition	CFU/ml	-	180
Total Coliforms*	APHA 9222 B -23rd Edition	CFU/100 ml	-	Zero
Fecal Coliforms*	APHA 9222 D -23rd Edition	CFU/100 ml	23	Zero
Pseudomonas aeruginosa*	APHA 9213 E -23rd Edition	CFU/100 ml	-	Zero
E.coli*	APHA 9222 I -23rd Edition	CFU/100 ml	23	Zero

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

Remarks	The sample meets RSB Recycled Water and Biosolids Regulations 2018 requirements for irrigation water with respect to the above tests only.
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Keywords	CFU: Colony Forming Unit, APHA: American Public Health Association, RSB: Regulation & Supervision Bureau, 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-152479/2021, issued on 16 Mar 2021.

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TEST REPORT

Report No: QMTL/R-152469/2021

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-152469
		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	Irrigation Water Tank		
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 / 11:30 AM
Sample Container	1x500ml PB	Sampling Point	Tank (RCC)
Sample Receipt Temp	4°C	Sample Onsite Temp	35.8°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
LEGIONELLA ANALYSIS				
Legionella*	ISO 11731:2017 E (Matrix B, Procedure- 8, 9 & 10)	CFU/litre	100 (cfu/ml) (In circulating water)	<100
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 RSB Recycled Water and Biosolids Regulations 2018 requirements for irrigation water with respect to the above tests only.
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Keywords	CFU: Colony Forming Unit,, ISO: International Organization for Standardization, RSB: Regulation & Supervision Bureau, NP: Not Provided, BCYE: Buffered Charcoal Yeast Extract Agar, GVPC: Glycine Vancomycin Polymyxin Cycloheximide. Culture Media: BCYE & GVPC 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-152614/2021

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates	Sample ID	QMTL/S-152614	
	Date Received	10 Mar 2021	
	Date(s) Tested	10 Mar 2021 - 20 Mar 2021	
	ATTN : MR. JASMAN PINTO	Date Reported	01 Apr 2021
Sample Description	Courtyard Female Side (Irrigation Water Sprinkler Outlet)		
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 / 11:35 AM
Sample Container	1x1L PB	Sampling Point	Tank
Sample Receipt Temp	21°C	Sample Onsite Temp	30°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
LEGIONELLA ANALYSIS				
Legionella*	ISO 11731:2017 E (Matrix B, Procedure- 8, 9 & 10)	CFU/litre	100 (cfu/ml) (In circulating water)	<100
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 RSB Recycled Water and Biosolids Regulations 2018 requirements for irrigation water with respect to the above tests only.
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Keywords	CFU: Colony Forming Unit, ISO: International Organization for Standardization, RSB: Regulation & Supervision Bureau, NP: Not Provided, BCYE: Buffered Charcoal Yeast Extract Agar, GVPC: Glycine Vancomycin Polymyxin Cycloheximide. Culture Media: BCYE & GVPC Agar
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Test method deviation	None
Test performed by Emp#	103 & 14
Report prepared by Emp#	72
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TEST REPORT

Report No: QMTL/R-152616/2021

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-152616
ATTN : MR. JASMAN PINTO		Date Received	10 Mar 2021
		Date(s) Tested	10 Mar 2021 - 20 Mar 2021
		Date Reported	01 Apr 2021
Sample Description	Courtyard Male Side (Irrigation Water Sprinkler Outlet)		
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 / 11:40 AM
Sample Container	1x1L PB	Sampling Point	Tank
Sample Receipt Temp	21°C	Sample Onsite Temp	32°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
LEGIONELLA ANALYSIS				
Legionella*	ISO 11731:2017 E (Matrix B, Procedure- 8, 9 & 10)	CFU/litre	100 (cfu/ml) (In circulating water)	<100
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 RSB Recycled Water and Biosolids Regulations 2018 requirements for irrigation water with respect to the above tests only.
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Keywords	CFU: Colony Forming Unit, ISO: International Organization for Standardization, RSB: Regulation & Supervision Bureau, NP: Not Provided, BCYE: Buffered Charcoal Yeast Extract Agar, GVPC: Glycine Vancomycin Polymyxin Cycloheximide. Culture Media: BCYE & GVPC 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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END OF REPORT

TEST REPORT

Report No: QMTL/R-152470/2021 Rev.1

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-152470
		Date Received	10 Mar 2021
		Date(s) Tested	10 Mar 2021 - 20 Mar 2021
ATTN : MR. JASMAN PINTO		Date Reported	01 Apr 2021
Sample Description	FF2 Irrigation Water - Irrigation Water Sprinkler Outlet		
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 / 11:40 AM
Sample Container	1x500ml PB	Sampling Point	Sprinkler Garden
Sample Receipt Temp	4°C	Sample Onsite Temp	28.4°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
LEGIONELLA ANALYSIS				
Legionella*	ISO 11731:2017 E (Matrix B, Procedure- 8, 9 & 10)	CFU/litre	100 (cfu/ml) (In circulating water)	<100
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 RSB Recycled Water and Biosolids Regulations 2018 requirements for irrigation water with respect to the above tests only.
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Keywords	CFU: Colony Forming Unit,, ISO: International Organization for Standardization, RSB: Regulation & Supervision Bureau, NP: Not Provided, BCYE: Buffered Charcoal Yeast Extract Agar, GVPC: Glycine Vancomycin Polymyxin Cycloheximide. Culture Media: BCYE & GVPC 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.

This report supersedes the report number QMTL/R-152470/2021, issued on 22 Mar 2021.

Reported By

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