

TEST REPORT

Report No: QMTL/R-98436/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-98436
ATTN : MR. JASMAN PINTO		Date Received	18 Mar 2020
		Date(s) Tested	19 Mar 2020 - 21 Mar 2020
		Date Reported	30 Mar 2020
Sample Description	SV1 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	19.03.2020/1:31 PM
Sample Container	1x500ml PB	Sampling Point	Tank
Sample Receipt Temp	4.5°C	Sample Onsite Temp	29°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
MICROBIOLOGICAL ANALYSIS				
E.coli	APHA 9222 H & I (23rd Edition)	CFU/100 ml	23	Zero
Fecal Coliforms	APHA 9222 D (23rd Edition)	CFU/100 ml	23	Zero
Pseudomonas aeruginosa	APHA 9213 E (23rd Edition)	CFU/100 ml	-	Zero
Total Bacterial Count	APHA 9215 B (23rd Edition)	CFU/ml	-	140
Total Coliforms	APHA 9222 B (23rd Edition)	CFU/100 ml	-	Zero

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#	74 & 78
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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-98437/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-98437
ATTN : MR. JASMAN PINTO		Date Received	18 Mar 2020
		Date(s) Tested	19 Mar 2020 - 21 Mar 2020
		Date Reported	30 Mar 2020
Sample Description	FF2 Irrigation Water		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	Zayed University	Sampling Date/Time	19.03.2020/1:56 PM
Sample Container	1x500ml PB	Sampling Point	Sprinkler
Sample Receipt Temp	4.5°C	Sample Onsite Temp	23°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

TEST RESULTS

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

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#	74 & 78
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Report prepared by Emp#	72
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TEST REPORT

Report No: QMTL/R-98438/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-98438
ATTN : MR. JASMAN PINTO		Date Received	18 Mar 2020
		Date(s) Tested	19 Mar 2020 - 21 Mar 2020
		Date Reported	30 Mar 2020
Sample Description	Center Courtyard, Irrigation Water		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	Zayed University	Sampling Date/Time	19.03.2020/2:00 PM
Sample Container	1x500ml PB	Sampling Point	Sprinkler
Sample Receipt Temp	4.5°C	Sample Onsite Temp	29°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
MICROBIOLOGICAL ANALYSIS				
E.coli	APHA 9222 H & I (23rd Edition)	CFU/100 ml	23	Zero
Fecal Coliforms	APHA 9222 D (23rd Edition)	CFU/100 ml	23	Zero
Pseudomonas aeruginosa	APHA 9213 E (23rd Edition)	CFU/100 ml	-	Zero
Total Bacterial Count	APHA 9215 B (23rd Edition)	CFU/ml	-	2
Total Coliforms	APHA 9222 B (23rd Edition)	CFU/100 ml	-	Zero

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#	74 & 78
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Report prepared by Emp#	72
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TEST REPORT

Report No: QMTL/R-98439/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-98439
ATTN : MR. JASMAN PINTO		Date Received	18 Mar 2020
		Date(s) Tested	19 Mar 2020 - 21 Mar 2020
		Date Reported	30 Mar 2020
Sample Description	MF2 Irrigation Water		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	Zayed University	Sampling Date/Time	19.03.2020/2:30 PM
Sample Container	1x500ml PB	Sampling Point	Sprinkler
Sample Receipt Temp	4.5°C	Sample Onsite Temp	23.6°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

TEST RESULTS

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

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#	74 & 78
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Report prepared by Emp#	72
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TEST REPORT

Report No: QMTL/R-98446/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-98446
ATTN : MR. JASMAN PINTO		Date Received	18 Mar 2020
		Date(s) Tested	19 Mar 2020 - 29 Mar 2020
		Date Reported	31 Mar 2020
Sample Description	SV1 Irrigation Water Tank		
Sample Type	Water	Sampling Method	QMTL-WI-16
Client Name/Project	Serco Middle East	Sampled By	QMTL Representative
Location	Zayed university	Sampling Date/Time	19.03.2020/1:31 PM
Sample Container	1x1L PB	Sampling Point	Tank
Sample Receipt Temp	20°C	Sample Onsite Temp	29°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) (Circulating Water)	<100
Legionella pneumophila sero group 1	ISO 11731:2017 E	-	-	Absent
Legionella pneumophila sero group 2-15	ISO 11731:2017 E	-	-	Absent
Legionella Species	ISO 11731:2017 E	-	-	Absent

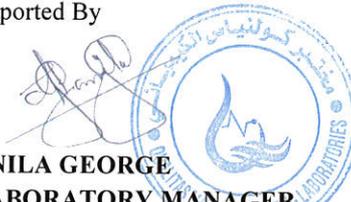
Remarks	The sample meets RSB Recycled Water and Biosolids Regulations 2018 requirements for irrigation water with respect to the above tests only.
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Keywords	CFU: Colony Forming Unit, RSB: Regulation & Supervision Bureau, ISO: International Organization for Standardization NP: Not Provided, NA: Not Applicable, WI: Work Instruction, 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#	74 & 78
Report prepared by Emp#	9

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TEST REPORT

Report No: QMTL/R-98447/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-98447
		Date Received	18 Mar 2020
		Date(s) Tested	19 Mar 2020 - 29 Mar 2020
ATTN : MR. JASMAN PINTO		Date Reported	31 Mar 2020
Sample Description	FF2 Irrigation Water		
Sample Type	Water	Sampling Method	QMTL-WI-16
Client Name/Project	Serco Middle East	Sampled By	QMTL Representative
Location	Zayed university	Sampling Date/Time	19.03.2020/1:56 PM
Sample Container	1x1L PB	Sampling Point	Sprinkler
Sample Receipt Temp	20°C	Sample Onsite Temp	23°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) (Circulating Water)	<100
Legionella pneumophila sero group 1	ISO 11731:2017 E	-	-	Absent
Legionella pneumophila sero group 2-15	ISO 11731:2017 E	-	-	Absent
Legionella Species	ISO 11731:2017 E	-	-	Absent

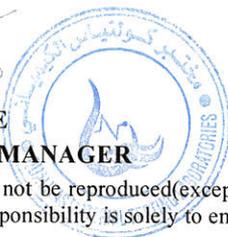
Remarks	The sample meets RSB Recycled Water and Biosolids Regulations 2018 requirements for irrigation water with respect to the above tests only.
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Keywords	CFU: Colony Forming Unit, RSB: Regulation & Supervision Bureau, ISO: International Organization for Standardization NP: Not Provided, NA: Not Applicable, WI: Work Instruction, 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#	74 & 78
Report prepared by Emp#	9
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Report No: QMTL/R-98448/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates ATTN : MR. JASMAN PINTO	Sample ID	QMTL/S-98448	
	Date Received	18 Mar 2020	
	Date(s) Tested	19 Mar 2020 - 29 Mar 2020	
	Date Reported	31 Mar 2020	
Sample Description	Center Courtyard, Irrigation Water		
Sample Type	Water	Sampling Method	QMTL-WI-16
Client Name/Project	Serco Middle East	Sampled By	QMTL Representative
Location	Zayed university	Sampling Date/Time	19.03.2020/2:00 PM
Sample Container	1x1L PB	Sampling Point	Sprinkler
Sample Receipt Temp	20°C	Sample Onsite Temp	29°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) (Circulating Water)	<100
Legionella pneumophila sero group 1	ISO 11731:2017 E	-	-	Absent
Legionella pneumophila sero group 2-15	ISO 11731:2017 E	-	-	Absent
Legionella Species	ISO 11731:2017 E	-	-	Absent

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, RSB: Regulation & Supervision Bureau, ISO: International Organization for Standardization NP: Not Provided, NA: Not Applicable, WI: Work Instruction, 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#	74 & 78
Report prepared by Emp#	9
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TEST REPORT

Report No: QMTL/R-98449/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates ATTN : MR. JASMAN PINTO	Sample ID	QMTL/S-98449	
	Date Received	18 Mar 2020	
	Date(s) Tested	19 Mar 2020 - 29 Mar 2020	
	Date Reported	31 Mar 2020	
Sample Description	MF2 Irrigation Water		
Sample Type	Water	Sampling Method	QMTL-WI-16
Client Name/Project	Serco Middle East	Sampled By	QMTL Representative
Location	Zayed university	Sampling Date/Time	19.03.2020/2:30 PM
Sample Container	1x1L PB	Sampling Point	Sprinkler
Sample Receipt Temp	20°C	Sample Onsite Temp	23.6°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) (Circulating Water)	<100
Legionella pneumophila sero group 1	ISO 11731:2017 E	-	-	Absent
Legionella pneumophila sero group 2-15	ISO 11731:2017 E	-	-	Absent
Legionella Species	ISO 11731:2017 E	-	-	Absent

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, RSB: Regulation & Supervision Bureau, ISO: International Organization for Standardization NP: Not Provided, NA: Not Applicable, WI: Work Instruction, 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#	74 & 78
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