



Microbiology Test Report

Customer Details

Report No. WA-R-L-2004-6484

Crystalline Environmental Services



| | | | |
|-----------------------|------------------------------------|---------------------|--------------------|
| Request No. | : WA-Q-L-2004-1072 | Sample No. | : WA-S-L-2004-6312 |
| Sampling Date/time | : 7/4/2020 , 11:52 | Report Date. | : 9/4/2020 |
| Analysis Start Date. | : 7/4/2020 | Analysis End Date. | : 9/4/2020 |
| Sample Location. | : City Of Lights Omega - Abu Dhabi | Sampled By | : Shoukth |
| Sample Identification | : Not Applicable | Sample Submitted as | : Water |
| Sample Certificate No | : 0416 | Sampling Method | : APHA 9060 A&B |
| Temperature °C | : 9°C | Site Observation | : Clear |
| Sampling Container | : Sterile Plastic Bottle | Source of Sample | : Omega (Low Zone) |
| Sampling Point | : Chilled Water | Preservation | : 4-8°C |
| Sample Description | : Water | | |

| Parameters | Test Methods | Units | Results | Specification |
|---------------------------|--------------------------------|------------|--------------|---------------|
| Escherichia Coli | APHA 9222 B,H& I 23rd Ed. 2017 | CFU/100 ml | Not Detected | - |
| Faecal Coliforms | APHA 9222 D 23rd Ed. 2017 | CFU/100 ml | Not Detected | - |
| Heterotrophic plate count | APHA 9215 B 23rd Ed. 2017 | CFU/ml | Not Detected | 10000CFU/ml |
| Pseudomonas aeruginosa | CCFRA 2.5.2 5th Ed. 2007 | CFU/250 ml | Not Detected | - |
| Total Coliforms | APHA 9222 B 23rd Ed. 2017 | CFU/100 ml | Not Detected | - |

Note : Not Detected=<1CFU

Limit based on DM.Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

Remarks :The tested results of the sample are found to be satisfactory within the specified limits.

| | | |
|---------|-------------|------------------|
| Analyst | Reviewed By | Method Variation |
| JY | SM | None |

Key Words :CFU-Colony Forming Unit; APHA-American Public Health Association; CCFRA-Campden Chorleywood Food Research Association.

Signed for and on behalf of Wimpey Laboratories



Dr. Suresh Murugan Ph.D

Senior Microbiologist

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Legionella Test Report

Customer Details

Report No. WA-R-L-2004-6485

Crystalline Environmental Services



| | | | |
|-----------------------|------------------------------------|---------------------|--------------------|
| Request No. | : WA-Q-L-2004-1072 | Sample No. | : WA-S-L-2004-6313 |
| Sampling Date/time | : 7/4/2020 , 11:52 | Report Date. | : 18/4/2020 |
| Analysis Start Date. | : 7/4/2020 | Analysis End Date. | : 17/4/2020 |
| Sample Location. | : City Of Lights Omega - Abu Dhabi | Sampled By | : Shoukth |
| Sample Identification | : Not Applicable | Sample Submitted as | : Water |
| Sample Certificate No | : 0416 | Sampling Method | : BS 7592 |
| Temperature °C | : 9°C | Site Observation | : Clear |
| Sampling Container | : Sterile Plastic Bottle | Source of Sample | : Omega (Low Zone) |
| Sampling Point | : Chilled Water | Preservation | : 10°C |
| Sample Description | : Water | | |

| Parameters | Test Methods | Units | Results | Specification |
|------------|-----------------|-------|--------------|---------------|
| Legionella | ISO 11731: 2017 | CFU/L | Not Detected | 100CFU/L |

Note : Limit of Detection=<20CFU/L

Procedure: WSOP-MB-0051. Filtration, Washing, Heat Treatment, Acid Treatment followed by Plating on GVPC/BCYE Agar.

Limit based on DM. Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

Remarks :The tested result of the sample is found to be satisfactory within the specified limits.

| | | |
|---------|-------------|------------------|
| Analyst | Reviewed By | Method Variation |
| JY | SM | None |

Key Words :CFU-Colony Forming Unit; BS-British Standard; ISO-International Organization for Standardization.

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Senior Microbiologist

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Microbiology Test Report

Customer Details

Report No. WA-R-L-2004-6486

Crystalline Environmental Services



| | | | |
|-----------------------|------------------------------------|---------------------|---------------------|
| Request No. | : WA-Q-L-2004-1072 | Sample No. | : WA-S-L-2004-6314 |
| Sampling Date/time | : 7/4/2020 , 11:52 | Report Date. | : 9/4/2020 |
| Analysis Start Date. | : 7/4/2020 | Analysis End Date. | : 9/4/2020 |
| Sample Location. | : City Of Lights Omega - Abu Dhabi | Sampled By | : Shoukth |
| Sample Identification | : Not Applicable | Sample Submitted as | : Water |
| Sample Certificate No | : 0416 | Sampling Method | : APHA 9060 A&B |
| Temperature °C | : 9.8°C | Site Observation | : Clear |
| Sampling Container | : Sterile Plastic Bottle | Source of Sample | : Omega (High Zone) |
| Sampling Point | : Chilled Water | Preservation | : 4-8°C |
| Sample Description | : Water | | |

| Parameters | Test Methods | Units | Results | Specification |
|---------------------------|--------------------------------|------------|--------------|---------------|
| Escherichia Coli | APHA 9222 B,H& I 23rd Ed. 2017 | CFU/100 ml | Not Detected | - |
| Faecal Coliforms | APHA 9222 D 23rd Ed. 2017 | CFU/100 ml | Not Detected | - |
| Heterotrophic plate count | APHA 9215 B 23rd Ed. 2017 | CFU/ml | Not Detected | 10000CFU/ml |
| Pseudomonas aeruginosa | CCFRA 2.5.2 5th Ed. 2007 | CFU/250 ml | Not Detected | - |
| Total Coliforms | APHA 9222 B 23rd Ed. 2017 | CFU/100 ml | Not Detected | - |

Note : Not Detected= \leq 1CFU

Limit based on DM.Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

Remarks :The tested results of the sample are found to be satisfactory within the specified limits.

| | | |
|---------|-------------|------------------|
| Analyst | Reviewed By | Method Variation |
| JY | SM | None |

Key Words :CFU-Colony Forming Unit; APHA-American Public Health Association; CCFRA-Campden Chorleywood Food Research Association.

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Senior Microbiologist



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Legionella Test Report

Customer Details

Report No. WA-R-L-2004-6487

Crystalline Environmental Services



| | | | |
|-----------------------|------------------------------------|---------------------|---------------------|
| Request No. | : WA-Q-L-2004-1072 | Sample No. | : WA-S-L-2004-6315 |
| Sampling Date/time | : 7/4/2020 , 11:52 | Report Date. | : 18/4/2020 |
| Analysis Start Date. | : 7/4/2020 | Analysis End Date. | : 17/4/2020 |
| Sample Location. | : City Of Lights Omega - Abu Dhabi | Sampled By | : Shoukth |
| Sample Identification | : Not Applicable | Sample Submitted as | : Water |
| Sample Certificate No | : 0416 | Sampling Method | : BS 7592 |
| Temperature °C | : 9.8°C | Site Observation | : Clear |
| Sampling Container | : Sterile Plastic Bottle | Source of Sample | : Omega (High Zone) |
| Sampling Point | : Chilled Water | Preservation | : 10°C |
| Sample Description | : Water | | |

| Parameters | Test Methods | Units | Results | Specification |
|------------|-----------------|-------|--------------|---------------|
| Legionella | ISO 11731: 2017 | CFU/L | Not Detected | 100CFU/L |

Note : Limit of Detection=<20CFU/L

Procedure: WSOP-MB-0051. Filtration, Washing, Heat Treatment, Acid Treatment followed by Plating on GVPC/BCYE Agar.

Limit based on DM. Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

Remarks :The tested result of the sample is found to be satisfactory within the specified limits.

| Analyst | Reviewed By | Method Variation |
|---------|-------------|------------------|
| JY | SM | None |

Key Words :CFU-Colony Forming Unit; BS-British Standard; ISO-International Organization for Standardization.

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Senior Microbiologist



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Microbiology Test Report

Customer Details

Crystalline Environmental Services

Report No. WA-R-L-2004-6480



| | | | |
|-----------------------|--|---------------------|----------------------|
| Request No. | : WA-Q-L-2004-1071 | Sample No. | : WA-S-L-2004-6308 |
| Sampling Date/time | : 7/4/2020 , 11:40 | Report Date. | : 11/4/2020 |
| Analysis Start Date. | : 7/4/2020 | Analysis End Date. | : 9/4/2020 |
| Sample Location. | : City Of Lights Sigma 1 & 2 - Abu Dhabi | Sampled By | : Shoukth |
| Sample Identification | : Not Applicable | Sample Submitted as | : Water |
| Sample Certificate No | : 0415 | Sampling Method | : APHA 9060 A&B |
| Temperature °C | : 9.6°C | Site Observation | : Clear |
| Sampling Container | : Sterile Plastic Bottle | Source of Sample | : Sigma 1 ETS Room 1 |
| Sampling Point | : Chilled Water | Preservation | : 4-8°C |
| Sample Description | : Water | | |

| Parameters | Test Methods | Units | Results | Specification |
|---------------------------|--------------------------------|-----------|--------------|---------------|
| Escherichia Coli | APHA 9222 B,H& I 23rd Ed. 2017 | CFU/100ml | Not Detected | -- |
| Faecal Coliforms | APHA 9222 D 23rd Ed. 2017 | CFU/100ml | Not Detected | -- |
| Heterotrophic plate count | APHA 9215 B 23rd Ed. 2017 | CFU/ml | Not Detected | 10000CFU/ml |
| Pseudomonas aeruginosa | CCFRA 2.5.2 5th Ed. 2007 | CFU/250ml | Not Detected | -- |
| Total Coliforms | APHA 9222 B 23rd Ed. 2017 | CFU/100ml | Not Detected | -- |

Note : Not Detected= \leq 1CFU

Limit based on DM.Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

Remarks :The tested results of the sample are found to be satisfactory within the specified limits.

| | | |
|---------|-------------|------------------|
| Analyst | Reviewed By | Method Variation |
| HS | SM | None |

Key Words :CFU-Colony Forming Unit; APHA-American Public Health Association; CCFRA-Campden Chorleywood Food Research Association.

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Legionella Test Report

Customer Details

Report No. WA-R-L-2004-6481

Crystalline Environmental Services



| | | | |
|-----------------------|--|---------------------|----------------------|
| Request No. | : WA-Q-L-2004-1071 | Sample No. | : WA-S-L-2004-6309 |
| Sampling Date/time | : 7/4/2020 , 11:40 | Report Date. | : 18/4/2020 |
| Analysis Start Date. | : 7/4/2020 | Analysis End Date. | : 17/4/2020 |
| Sample Location. | : City Of Lights Sigma 1 & 2 - Abu Dhabi | Sampled By | : Shoukth |
| Sample Identification | : Not Applicable | Sample Submitted as | : Water |
| Sample Certificate No | : 0415 | Sampling Method | : BS 7592 |
| Temperature °C | : 9.6°C | Site Observation | : Clear |
| Sampling Container | : Sterile Plastic Bottle | Source of Sample | : Sigma 1 ETS Room 1 |
| Sampling Point | : Chilled Water | Preservation | : 10°C |
| Sample Description | : Water | | |

| Parameters | Test Methods | Units | Results | Specification |
|------------|-----------------|-------|--------------|---------------|
| Legionella | ISO 11731: 2017 | CFU/L | Not Detected | 100CFU/L |

Note : Limit of Detection=<20CFU/L

Procedure: WSOP-MB-0051. Filtration, Washing, Heat treatment, Acid treatment followed by Plating on GVPC/BCYE Agar

Limit based on DM.Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

Remarks :The tested result of the sample is found to be satisfactory within the specified limits.

| | | |
|---------|-------------|------------------|
| Analyst | Reviewed By | Method Variation |
| HS | SM | None |

Key Words :CFU-Colony Forming Unit; BS-British Standard; ISO-International Organization for Standardization.

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Microbiology Test Report

Customer Details

Crystalline Environmental Services

Report No. WA-R-L-2004-6482



| | | | |
|-----------------------|--|---------------------|----------------------|
| Request No. | : WA-Q-L-2004-1071 | Sample No. | : WA-S-L-2004-6310 |
| Sampling Date/time | : 7/4/2020 , 11:40 | Report Date. | : 11/4/2020 |
| Analysis Start Date. | : 7/4/2020 | Analysis End Date. | : 9/4/2020 |
| Sample Location. | : City Of Lights Sigma 1 & 2 - Abu Dhabi | Sampled By | : Shoukth |
| Sample Identification | : Not Applicable | Sample Submitted as | : Water |
| Sample Certificate No | : 0415 | Sampling Method | : APHA 9060 A&B |
| Temperature °C | : 9.5°C | Site Observation | : Clear |
| Sampling Container | : Sterile Plastic Bottle | Source of Sample | : Sigma 2 ETS Room 1 |
| Sampling Point | : Chilled Water | Preservation | : 4-8°C |
| Sample Description | : Water | | |

| Parameters | Test Methods | Units | Results | Specification |
|---------------------------|--------------------------------|-----------|--------------|---------------|
| Escherichia Coli | APHA 9222 B,H& I 23rd Ed. 2017 | CFU/100ml | Not Detected | -- |
| Faecal Coliforms | APHA 9222 D 23rd Ed. 2017 | CFU/100ml | Not Detected | -- |
| Heterotrophic plate count | APHA 9215 B 23rd Ed. 2017 | CFU/ml | Not Detected | 10000CFU/ml |
| Pseudomonas aeruginosa | CCFRA 2.5.2 5th Ed. 2007 | CFU/250ml | Not Detected | -- |
| Total Coliforms | APHA 9222 B 23rd Ed. 2017 | CFU/100ml | Not Detected | -- |

Note : Not Detected= \leq 1CFU

Limit based on DM.Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

Remarks :The tested results of the sample are found to be satisfactory within the specified limits.

| | | |
|---------|-------------|------------------|
| Analyst | Reviewed By | Method Variation |
| HS | SM | None |

Key Words :CFU-Colony Forming Unit; APHA-American Public Health Association; CCFRA-Campden Chorleywood Food Research Association.

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Legionella Test Report

Customer Details

Report No. WA-R-L-2004-6483

Crystalline Environmental Services



| | | | |
|-----------------------|--|---------------------|----------------------|
| Request No. | : WA-Q-L-2004-1071 | Sample No. | : WA-S-L-2004-6311 |
| Sampling Date/time | : 7/4/2020 , 11:40 | Report Date. | : 18/4/2020 |
| Analysis Start Date. | : 7/4/2020 | Analysis End Date. | : 17/4/2020 |
| Sample Location. | : City Of Lights Sigma 1 & 2 - Abu Dhabi | Sampled By | : Shoukth |
| Sample Identification | : Not Applicable | Sample Submitted as | : Water |
| Sample Certificate No | : 0415 | Sampling Method | : BS 7592 |
| Temperature °C | : 9.5°C | Site Observation | : Clear |
| Sampling Container | : Sterile Plastic Bottle | Source of Sample | : Sigma 2 ETS Room 1 |
| Sampling Point | : Chilled Water | Preservation | : 10°C |
| Sample Description | : Water | | |

| Parameters | Test Methods | Units | Results | Specification |
|------------|-----------------|-------|--------------|---------------|
| Legionella | ISO 11731: 2017 | CFU/L | Not Detected | 100CFU/L |

Note : Limit of Detection=<20CFU/L

Procedure: WSOP-MB-0051. Filtration, Washing, Heat treatment, Acid treatment followed by Plating on GVPC/BCYE

Agar

Limit based on DM.Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety

Department.

Remarks :The tested result of the sample is found to be satisfactory within the specified limits.

| | | |
|---------|-------------|------------------|
| Analyst | Reviewed By | Method Variation |
| HS | SM | None |

Key Words :CFU-Colony Forming Unit; BS-British Standard; ISO-International Organization for Standardization.

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Microbiology Test Report

Customer Details

Crystalline Environmental Services

Report No. WA-R-L-2004-6465



| | | | |
|-----------------------|--|---------------------|--------------------|
| Request No. | : WA-Q-L-2004-1068 | Sample No. | : WA-S-L-2004-6294 |
| Sampling Date/time | : 7/4/2020 , 10:55 | Report Date. | : 11/4/2020 |
| Analysis Start Date. | : 7/4/2020 | Analysis End Date. | : 9/4/2020 |
| Sample Location. | : Addax Tower City of Lights - Abu Dhabi | Sampled By | : Shoukth |
| Sample Identification | : Not Applicable | Sample Submitted as | : Water |
| Sample Certificate No | : 0412 | Sampling Method | : APHA 9060 A&B |
| Temperature °C | : 10.1°C | Site Observation | : Clear |
| Sampling Container | : Sterile Plastic Bottle | Source of Sample | : Low Zone |
| Sampling Point | : Chilled Water | Preservation | : 4-8°C |
| Sample Description | : Water | | |

| Parameters | Test Methods | Units | Results | Specification |
|---------------------------|--------------------------------|------------|--------------|---------------|
| Escherichia Coli | APHA 9222 B,H& I 23rd Ed. 2017 | CFU/100 ml | Not Detected | - |
| Faecal Coliforms | APHA 9222 D 23rd Ed. 2017 | CFU/100 ml | Not Detected | - |
| Heterotrophic plate count | APHA 9215 B 23rd Ed. 2017 | CFU/ml | Not Detected | 10000CFU/ml |
| Pseudomonas aeroginosa | CCFRA 2.5.2 5th Ed. 2007 | CFU/250 ml | Not Detected | - |
| Total Coliforms | APHA 9222 B 23rd Ed. 2017 | CFU/100 ml | Not Detected | - |

Note : Not Detected=<1CFU

Limit based on DM.Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

Remarks :The tested results of the sample are found to be satisfactory within the specified limits.

| | | |
|---------|-------------|------------------|
| Analyst | Reviewed By | Method Variation |
| JY | SM | None |

Key Words :CFU-Colony Forming Unit; APHA-American Public Health Association; CCFRA-Campden Chorleywood Food Research Association.

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Senior Microbiologist

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Legionella Test Report

Customer Details

Report No. WA-R-L-2004-6467

Crystalline Environmental Services



| | | | |
|-----------------------|--|---------------------|--------------------|
| Request No. | : WA-Q-L-2004-1068 | Sample No. | : WA-S-L-2004-6295 |
| Sampling Date/time | : 7/4/2020 , 10:55 | Report Date. | : 18/4/2020 |
| Analysis Start Date. | : 7/4/2020 | Analysis End Date. | : 17/4/2020 |
| Sample Location. | : Addax Tower City of Lights - Abu Dhabi | Sampled By | : Shoukth |
| Sample Identification | : Not Applicable | Sample Submitted as | : Water |
| Sample Certificate No | : 0412 | Sampling Method | : BS 7592 |
| Temperature °C | : 10.1°C | Site Observation | : Clear |
| Sampling Container | : Sterile Plastic Bottle | Source of Sample | : Low Zone |
| Sampling Point | : Chilled Water | Preservation | : 10°C |
| Sample Description | : Water | | |

| Parameters | Test Methods | Units | Results | Specification |
|------------|-----------------|-------|--------------|---------------|
| Legionella | ISO 11731: 2017 | CFU/L | Not Detected | 100CFU/L |

Note : Limit of Detection=<20CFU/L

Procedure: WSOP-MB-0051. Filtration, Washing, Heat Treatment, Acid Treatment followed by Plating on GVPC/BCYE Agar.

Limit based on DM. Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

Remarks :The tested result of the sample is found to be satisfactory within the specified limits.

| | | |
|---------|-------------|------------------|
| Analyst | Reviewed By | Method Variation |
| JY | SM | None |

Key Words :CFU-Colony Forming Unit; BS-British Standard; ISO-International Organization for Standardization.

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Senior Microbiologist

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Microbiology Test Report

Customer Details

Report No. WA-R-L-2004-6468

Crystalline Environmental Services



| | | | |
|-----------------------|--|---------------------|--------------------|
| Request No. | : WA-Q-L-2004-1068 | Sample No. | : WA-S-L-2004-6296 |
| Sampling Date/time | : 7/4/2020 , 10:55 | Report Date. | : 11/4/2020 |
| Analysis Start Date. | : 7/4/2020 | Analysis End Date. | : 9/4/2020 |
| Sample Location. | : Addax Tower City of Lights - Abu Dhabi | Sampled By | : Shoukth |
| Sample Identification | : Not Applicable | Sample Submitted as | : Water |
| Sample Certificate No | : 0412 | Sampling Method | : APHA 9060 A&B |
| Temperature °C | : 9.9°C | Site Observation | : Clear |
| Sampling Container | : Sterile Plastic Bottle | Source of Sample | : High Zone |
| Sampling Point | : Chilled Water | Preservation | : 4-8°C |
| Sample Description | : Water | | |

| Parameters | Test Methods | Units | Results | Specification |
|---------------------------|--------------------------------|------------|--------------|---------------|
| Escherichia Coli | APHA 9222 B,H& I 23rd Ed. 2017 | CFU/100 ml | Not Detected | -- |
| Faecal Coliforms | APHA 9222 D 23rd Ed. 2017 | CFU/100 ml | Not Detected | -- |
| Heterotrophic plate count | APHA 9215 B 23rd Ed. 2017 | CFU/ml | Not Detected | 10000CFU/ml |
| Pseudomonas aeruginosa | CCFRA 2.5.2 5th Ed. 2007 | CFU/250 ml | Not Detected | -- |
| Total Coliforms | APHA 9222 B 23rd Ed. 2017 | CFU/100 ml | Not Detected | -- |

Note : Not Detected=<1CFU

Limit based on DM.Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

Remarks :The tested results of the sample are found to be satisfactory within the specified limits.

| | | |
|---------|-------------|------------------|
| Analyst | Reviewed By | Method Variation |
| JY | SM | None |

Key Words :CFU-Colony Forming Unit; APHA-American Public Health Association; CCFRA-Campden Chorleywood Food Research Association.

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Senior Microbiologist

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Legionella Test Report

Customer Details

Report No. WA-R-L-2004-6470

Crystalline Environmental Services



| | | | |
|-----------------------|--|---------------------|--------------------|
| Request No. | : WA-Q-L-2004-1068 | Sample No. | : WA-S-L-2004-6298 |
| Sampling Date/time | : 7/4/2020 , 10:55 | Report Date. | : 18/4/2020 |
| Analysis Start Date. | : 7/4/2020 | Analysis End Date. | : 17/4/2020 |
| Sample Location. | : Addax Tower City of Lights - Abu Dhabi | Sampled By | : Shoukth |
| Sample Identification | : Not Applicable | Sample Submitted as | : Water |
| Sample Certificate No | : 0412 | Sampling Method | : BS 7592 |
| Temperature °C | : 9.9°C | Site Observation | : Clear |
| Sampling Container | : Sterile Plastic Bottle | Source of Sample | : High Zone |
| Sampling Point | : Chilled Water | Preservation | : 10°C |
| Sample Description | : Water | | |

| Parameters | Test Methods | Units | Results | Specification |
|------------|-----------------|-------|--------------|---------------|
| Legionella | ISO 11731: 2017 | CFU/L | Not Detected | 100CFU/L |

Note : Limit of Detection=<20CFU/L

Procedure: WSOP-MB-0051. Filtration, Washing, Heat Treatment, Acid Treatment followed by Plating on GVPC/BCYE Agar.

Limit based on DM. Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

Remarks :The tested result of the sample is found to be satisfactory within the specified limits.

| | | |
|---------|-------------|------------------|
| Analyst | Reviewed By | Method Variation |
| JY | SM | None |

Key Words :CFU-Colony Forming Unit; BS-British Standard; ISO-International Organization for Standardization.

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Microbiology Test Report

Customer Details

Report No. WA-R-L-2004-6476

Crystalline Environmental Services



| | | | |
|-----------------------|--|---------------------|--------------------|
| Request No. | : WA-Q-L-2004-1070 | Sample No. | : WA-S-L-2004-6304 |
| Sampling Date/time | : 7/4/2020 , 11:08 | Report Date. | : 9/4/2020 |
| Analysis Start Date. | : 7/4/2020 | Analysis End Date. | : 9/4/2020 |
| Sample Location. | : City Of Lights C2 Building - Abu Dhabi | Sampled By | : Shoukth |
| Sample Identification | : Not Applicable | Sample Submitted as | : Water |
| Sample Certificate No | : 0414 | Sampling Method | : APHA 9060 A&B |
| Temperature °C | : 10.6°C | Site Observation | : Clear |
| Sampling Container | : Sterile Plastic Bottle | Source of Sample | : Pump Room |
| Sampling Point | : Chilled Water 1 | Preservation | : 4-8°C |
| Sample Description | : Water | | |

| Parameters | Test Methods | Units | Results | Specification |
|---------------------------|--------------------------------|-----------|--------------|---------------|
| Escherichia Coli | APHA 9222 B,H& I 23rd Ed. 2017 | CFU/100ml | Not Detected | -- |
| Faecal Coliforms | APHA 9222 D 23rd Ed. 2017 | CFU/100ml | Not Detected | -- |
| Heterotrophic plate count | APHA 9215 B 23rd Ed. 2017 | CFU/ml | Not Detected | 10000CFU/ml |
| Pseudomonas aeroginosa | CCFRA 2.5.2 5th Ed. 2007 | CFU/250ml | Not Detected | -- |
| Total Coliforms | APHA 9222 B 23rd Ed. 2017 | CFU/100ml | Not Detected | -- |

Note : Not Detected=<1CFU

Limit based on DM. Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

Remarks :The tested results of the sample are found to be satisfactory within the specified limits.

| Analyst | Reviewed By | Method Variation |
|---------|-------------|------------------|
| HS | SM | None |

Key Words :CFU-Colony Forming Unit; APHA-American Public Health Association; CCFRA-Campden Chorleywood Food Research Association.

Signed for and on behalf of Wimpey Laboratories

Dr. Suresh Murugan Ph.D

Senior Microbiologist

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Legionella Test Report

Customer Details

Report No. WA-R-L-2004-6477

Crystalline Environmental Services



| | | | |
|-----------------------|--|---------------------|--------------------|
| Request No. | : WA-Q-L-2004-1070 | Sample No. | : WA-S-L-2004-6305 |
| Sampling Date/time | : 7/4/2020 , 11:08 | Report Date. | : 18/4/2020 |
| Analysis Start Date. | : 7/4/2020 | Analysis End Date. | : 17/4/2020 |
| Sample Location. | : City Of Lights C2 Building - Abu Dhabi | Sampled By | : Shoukth |
| Sample Identification | : Not Applicable | Sample Submitted as | : Water |
| Sample Certificate No | : 0414 | Sampling Method | : BS 7592 |
| Temperature °C | : 10.6°C | Site Observation | : Clear |
| Sampling Container | : Sterile Plastic Bottle | Source of Sample | : Pump Room |
| Sampling Point | : Chilled Water 1 | Preservation | : 10°C |
| Sample Description | : Water | | |

| Parameters | Test Methods | Units | Results | Specification |
|------------|-----------------|-------|--------------|---------------|
| Legionella | ISO 11731: 2017 | CFU/L | Not Detected | 100CFU/L |

Note : Limit of Detection=<20CFU/L

Procedure: WSOP-MB-0051. Filtration, Washing, Heat treatment, Acid treatment followed by Plating on GVPC/BCYE Agar

Limit based on DM.Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

Remarks :The tested result of the sample is found to be satisfactory within the specified limits.

| | | |
|---------|-------------|------------------|
| Analyst | Reviewed By | Method Variation |
| HS | SM | None |

Key Words :CFU-Colony Forming Unit; BS-British Standard; ISO-International Organization for Standardization.

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Senior Microbiologist



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Microbiology Test Report

Customer Details

Report No. WA-R-L-2004-6478

Crystalline Environmental Services



| | | | |
|-----------------------|--|---------------------|--------------------|
| Request No. | : WA-Q-L-2004-1070 | Sample No. | : WA-S-L-2004-6306 |
| Sampling Date/time | : 7/4/2020 , 11:08 | Report Date. | : 9/4/2020 |
| Analysis Start Date. | : 7/4/2020 | Analysis End Date. | : 9/4/2020 |
| Sample Location. | : City Of Lights C2 Building - Abu Dhabi | Sampled By | : Shoukth |
| Sample Identification | : Not Applicable | Sample Submitted as | : Water |
| Sample Certificate No | : 0414 | Sampling Method | : APHA 9060 A&B |
| Temperature °C | : 10.7°C | Site Observation | : Clear |
| Sampling Container | : Sterile Plastic Bottle | Source of Sample | : Pump Room |
| Sampling Point | : Chilled Water 2 | Preservation | : 4-8°C |
| Sample Description | : Water | | |

| Parameters | Test Methods | Units | Results | Specification |
|---------------------------|--------------------------------|-----------|--------------|---------------|
| Escherichia Coli | APHA 9222 B,H& I 23rd Ed. 2017 | CFU/100ml | Not Detected | -- |
| Faecal Coliforms | APHA 9222 D 23rd Ed. 2017 | CFU/100ml | Not Detected | -- |
| Heterotrophic plate count | APHA 9215 B 23rd Ed. 2017 | CFU/ml | Not Detected | 10000CFU/ml |
| Pseudomonas aeruginosa | CCFRA 2.5.2 5th Ed. 2007 | CFU/250ml | Not Detected | -- |
| Total Coliforms | APHA 9222 B 23rd Ed. 2017 | CFU/100ml | Not Detected | -- |

Note : Not Detected=<1CFU

Limit based on DM. Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

Remarks :The tested results of the sample are found to be satisfactory within the specified limits.

| | | |
|---------|-------------|------------------|
| Analyst | Reviewed By | Method Variation |
| HS | SM | None |

Key Words :CFU-Colony Forming Unit; APHA-American Public Health Association; CCFRA-Campden Chorleywood Food Research Association.

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Senior Microbiologist



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Legionella Test Report

Customer Details

Report No. WA-R-L-2004-6479

Crystalline Environmental Services



| | | | |
|-----------------------|--|---------------------|--------------------|
| Request No. | : WA-Q-L-2004-1070 | Sample No. | : WA-S-L-2004-6307 |
| Sampling Date/time | : 7/4/2020 , 11:08 | Report Date. | : 18/4/2020 |
| Analysis Start Date. | : 7/4/2020 | Analysis End Date. | : 17/4/2020 |
| Sample Location. | : City Of Lights C2 Building - Abu Dhabi | Sampled By | : Shoukth |
| Sample Identification | : Not Applicable | Sample Submitted as | : Water |
| Sample Certificate No | : 0414 | Sampling Method | : BS 7592 |
| Temperature °C | : 10.7°C | Site Observation | : Clear |
| Sampling Container | : Sterile Plastic Bottle | Source of Sample | : Pump Room |
| Sampling Point | : Chilled Water 2 | Preservation | : 10°C |
| Sample Description | : Water | | |

| Parameters | Test Methods | Units | Results | Specification |
|------------|-----------------|-----------|--------------|---------------|
| Legionella | ISO 11731: 2017 | CFU/100ml | Not Detected | 100CFU/L |

Note : Limit of Detection=<20CFU/L

Procedure: WSOP-MB-0051. Filtration, Washing, Heat treatment, Acid treatment followed by Plating on GVPC/BCYE Agar

Limit based on DM.Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department

Remarks :The tested result of the sample is found to be satisfactory within the specified limits.

| Analyst | Reviewed By | Method Variation |
|---------|-------------|------------------|
| HS | SM | None |

Key Words :CFU-Colony Forming Unit; BS-British Standard; ISO-International Organization for Standardization.

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Microbiology Test Report

Customer Details

Crystalline Environmental Services

Report No. WA-R-L-2004-6474



| | | | |
|-----------------------|--|---------------------|--------------------|
| Request No. | : WA-Q-L-2004-1069 | Sample No. | : WA-S-L-2004-6302 |
| Sampling Date/time | : 7/4/2020 , 10:00 | Report Date. | : 9/4/2020 |
| Analysis Start Date. | : 7/4/2020 | Analysis End Date. | : 9/4/2020 |
| Sample Location. | : City Of Lights C3 Building - Abu Dhabi | Sampled By | : Shoukth |
| Sample Identification | : Not Applicable | Sample Submitted as | : Water |
| Sample Certificate No | : 0413 | Sampling Method | : APHA 9060 A&B |
| Temperature °C | : 9.9°C | Site Observation | : Clear |
| Sampling Container | : Sterile Plastic Bottle | Source of Sample | : Pump Room |
| Sampling Point | : Chilled Water | Preservation | : 4-8°C |
| Sample Description | : Water | | |

| Parameters | Test Methods | Units | Results | Specification |
|---------------------------|-------------------------------|-----------|--------------|---------------|
| Escherichia Coli | APHA 9222 B,H&I 23rd Ed. 2017 | CFU/100ml | Not Detected | -- |
| Faecal Coliforms | APHA 9222 D 23rd Ed. 2017 | CFU/100ml | Not Detected | -- |
| Heterotrophic plate count | APHA 9215 B 23rd Ed. 2017 | CFU/ml | Not Detected | 10000CFU/ml |
| Pseudomonas aeroginosa | CCFRA 2.5.2 5th Ed. 2007 | CFU/250ml | Not Detected | -- |
| Total Coliforms | APHA 9222 B 23rd Ed. 2017 | CFU/100ml | Not Detected | -- |

Note : Not Detected=<1CFU

Limit based on DM. Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

Remarks :The tested results of the sample are found to be satisfactory within the specified limits.

| | | |
|---------|-------------|------------------|
| Analyst | Reviewed By | Method Variation |
| HS | SM | None |

Key Words :CFU-Colony Forming Unit; APHA-American Public Health Association; CCFRA-Campden Chorleywood Food Research Association.

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Senior Microbiologist

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Legionella Test Report

Customer Details

Report No. WA-R-L-2004-6475

Crystalline Environmental Services



| | | | |
|-----------------------|--|---------------------|--------------------|
| Request No. | : WA-Q-L-2004-1069 | Sample No. | : WA-S-L-2004-6303 |
| Sampling Date/time | : 7/4/2020 , 10:00 | Report Date. | : 18/4/2020 |
| Analysis Start Date. | : 7/4/2020 | Analysis End Date. | : 17/4/2020 |
| Sample Location. | : City Of Lights C3 Building - Abu Dhabi | Sampled By | : Shoukth |
| Sample Identification | : Not Applicable | Sample Submitted as | : Water |
| Sample Certificate No | : 0413 | Sampling Method | : BS 7592 |
| Temperature °C | : 9.9°C | Site Observation | : Clear |
| Sampling Container | : Sterile Plastic Bottle | Source of Sample | : Pump Room |
| Sampling Point | : Chilled Water | Preservation | : 10°C |
| Sample Description | : Water | | |

| Parameters | Test Methods | Units | Results | Specification |
|------------|-----------------|-------|--------------|---------------|
| Legionella | ISO 11731: 2017 | CFU/L | Not Detected | 100CFU/L |

Note : Limit of Detection=<20CFU/L

Procedure: WSOP-MB-0051. Filtration, Washing, Heat treatment, Acid treatment followed by Plating on GVPC/BCYE Agar

Limit based on DM.Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

Remarks :The tested result of the sample is found to be satisfactory within the specified limits.

| | | |
|---------|-------------|------------------|
| Analyst | Reviewed By | Method Variation |
| HS | SM | None |

Key Words :CFU-Colony Forming Unit; BS-British Standard; ISO-International Organization for Standardization.

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Microbiology Test Report

Customer Details

Crystalline Environmental Services

Report No. WA-R-L-2004-6490



| | | | |
|-----------------------|---|---------------------|--------------------|
| Request No. | : WA-Q-L-2004-1073 | Sample No. | : WA-S-L-2004-6318 |
| Sampling Date/time | : 7/4/2020 , 12:30 | Report Date. | : 9/4/2020 |
| Analysis Start Date. | : 7/4/2020 | Analysis End Date. | : 9/4/2020 |
| Sample Location. | : City Of Lights C4 Building Hydra Tower - Abu Dhabi | Sampled By | : Shoukth |
| Sample Identification | : Not Applicable | Sample Submitted as | : Water |
| Sample Certificate No | : 0417 | Sampling Method | : APHA 9060 A&B |
| Temperature °C | : 9.6°C | Site Observation | : Clear |
| Sampling Container | : Sterile Plastic Bottle | Source of Sample | : C4 Low Zone |
| Sampling Point | : Chilled Water | Preservation | : 4-8°C |
| Sample Description | : Water | | |

| Parameters | Test Methods | Units | Results | Specification |
|---------------------------|--------------------------------|------------|--------------|---------------|
| Escherichia Coli | APHA 9222 B,H& I 23rd Ed. 2017 | CFU/100 ml | Not Detected | - |
| Faecal Coliforms | APHA 9222 D 23rd Ed. 2017 | CFU/100 ml | Not Detected | - |
| Heterotrophic plate count | APHA 9215 B 23rd Ed. 2017 | CFU/ml | Not Detected | 10000CFU/ml |
| Pseudomonas aeroginosa | CCFRA 2.5.2 5th Ed. 2007 | CFU/250 ml | Not Detected | - |
| Total Coliforms | APHA 9222 B 23rd Ed. 2017 | CFU/100 ml | Not Detected | - |

Note : Not Detected=<1CFU

Limit based on DM.Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

Remarks :The tested results of the sample are found to be satisfactory within the specified limits.

| | | |
|---------|-------------|------------------|
| Analyst | Reviewed By | Method Variation |
| JY | SM | None |

Key Words :CFU-Colony Forming Unit; APHA-American Public Health Association; CCFRA-Campden Chorleywood Food Research Association.

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Senior Microbiologist

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Legionella Test Report

Customer Details

Report No. WA-R-L-2004-6491

Crystalline Environmental Services



| | | | |
|-----------------------|---|---------------------|--------------------|
| Request No. | : WA-Q-L-2004-1073 | Sample No. | : WA-S-L-2004-6319 |
| Sampling Date/time | : 7/4/2020 , 12:30 | Report Date. | : 18/4/2020 |
| Analysis Start Date. | : 7/4/2020 | Analysis End Date. | : 17/4/2020 |
| Sample Location. | : City Of Lights C4 Building Hydra Tower - Abu Dhabi | Sampled By | : Shoukth |
| Sample Identification | : Not Applicable | Sample Submitted as | : Water |
| Sample Certificate No | : 0417 | Sampling Method | : BS 7592 |
| Temperature °C | : 9.6°C | Site Observation | : Clear |
| Sampling Container | : Sterile Plastic Bottle | Source of Sample | : C4 Low Zone |
| Sampling Point | : Chilled Water | Preservation | : 10°C |
| Sample Description | : Water | | |

| Parameters | Test Methods | Units | Results | Specification |
|------------|-----------------|-------|--------------|---------------|
| Legionella | ISO 11731: 2017 | CFU/L | Not Detected | 100CFU/L |

Note : Limit of Detection=<20CFU/L

Procedure: WSOP-MB-0051. Filtration, Washing, Heat Treatment, Acid Treatment followed by Plating on GVPC/BCYE Agar.

Limit based on DM. Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

Remarks :The tested result of the sample is found to be satisfactory within the specified limits.

| Analyst | Reviewed By | Method Variation |
|---------|-------------|------------------|
| JY | SM | None |

Key Words :CFU-Colony Forming Unit; BS-British Standard; ISO-International Organization for Standardization.

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Senior Microbiologist

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Microbiology Test Report

Customer Details

Report No. WA-R-L-2004-6488

Crystalline Environmental Services



| | | | |
|-----------------------|---|---------------------|--------------------|
| Request No. | : WA-Q-L-2004-1073 | Sample No. | : WA-S-L-2004-6316 |
| Sampling Date/time | : 7/4/2020 , 12:30 | Report Date. | : 9/4/2020 |
| Analysis Start Date. | : 7/4/2020 | Analysis End Date. | : 9/4/2020 |
| Sample Location. | : City Of Lights C4 Building Hydra Tower - Abu Dhabi | Sampled By | : Shoukth |
| Sample Identification | : Not Applicable | Sample Submitted as | : Water |
| Sample Certificate No | : 0417 | Sampling Method | : APHA 9060 A&B |
| Temperature °C | : 9°C | Site Observation | : Clear |
| Sampling Container | : Sterile Plastic Bottle | Source of Sample | : C4 High Zone |
| Sampling Point | : Chilled Water | Preservation | : 4-8°C |
| Sample Description | : Water | | |

| Parameters | Test Methods | Units | Results | Specification |
|---------------------------|--------------------------------|------------|--------------|---------------|
| Escherichia Coli | APHA 9222 B,H& I 23rd Ed. 2017 | CFU/100 ml | Not Detected | - |
| Faecal Coliforms | APHA 9222 D 23rd Ed. 2017 | CFU/100 ml | Not Detected | - |
| Heterotrophic plate count | APHA 9215 B 23rd Ed. 2017 | CFU/ml | Not Detected | 10000CFU/ml |
| Pseudomonas aeruginosa | CCFRA 2.5.2 5th Ed. 2007 | CFU/250 ml | Not Detected | - |
| Total Coliforms | APHA 9222 B 23rd Ed. 2017 | CFU/100 ml | Not Detected | - |

Note : Not Detected=<1CFU

Limit based on DM.Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

Remarks :The tested results of the sample are found to be satisfactory within the specified limits.

| | | |
|---------|-------------|------------------|
| Analyst | Reviewed By | Method Variation |
| JY | SM | None |

Key Words :CFU-Colony Forming Unit; APHA-American Public Health Association; CCFRA-Campden Chorleywood Food Research Association.

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Senior Microbiologist



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Legionella Test Report

Customer Details

Report No. WA-R-L-2004-6489

Crystalline Environmental Services



| | | | |
|-----------------------|---|---------------------|--------------------|
| Request No. | : WA-Q-L-2004-1073 | Sample No. | : WA-S-L-2004-6317 |
| Sampling Date/time | : 7/4/2020 , 12:30 | Report Date. | : 18/4/2020 |
| Analysis Start Date. | : 7/4/2020 | Analysis End Date. | : 17/4/2020 |
| Sample Location. | : City Of Lights C4 Building Hydra Tower - Abu Dhabi | Sampled By | : Shoukth |
| Sample Identification | : Not Applicable | Sample Submitted as | : Water |
| Sample Certificate No | : 0417 | Sampling Method | : BS 7592 |
| Temperature °C | : 9°C | Site Observation | : Clear |
| Sampling Container | : Sterile Plastic Bottle | Source of Sample | : C4 High Zone |
| Sampling Point | : Chilled Water | Preservation | : 10°C |
| Sample Description | : Water | | |

| Parameters | Test Methods | Units | Results | Specification |
|------------|-----------------|-------|--------------|---------------|
| Legionella | ISO 11731: 2017 | CFU/L | Not Detected | 100CFU/ml |

Note : Limit of Detection=<20CFU/L

Procedure: WSOP-MB-0051. Filtration, Washing, Heat Treatment, Acid Treatment followed by Plating on GVPC/BCYE Agar.

Limit based on DM. Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

Remarks :The tested result of the sample is found to be satisfactory within the specified limits.

| Analyst | Reviewed By | Method Variation |
|---------|-------------|------------------|
| JY | SM | None |

Key Words :CFU-Colony Forming Unit; BS-British Standard; ISO-International Organization for Standardization.

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Senior Microbiologist

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Microbiology Test Report

Customer Details

Report No. WA-R-L-2004-6494

Crystalline Environmental Services



| | | | |
|-----------------------|---|---------------------|------------------------|
| Request No. | : WA-Q-L-2004-1073 | Sample No. | : WA-S-L-2004-6322 |
| Sampling Date/time | : 7/4/2020 , 12:30 | Report Date. | : 9/4/2020 |
| Analysis Start Date. | : 7/4/2020 | Analysis End Date. | : 9/4/2020 |
| Sample Location. | : City Of Lights C5 Building Hydra Tower - Abu Dhabi | Sampled By | : Shoukth |
| Sample Identification | : Not Applicable | Sample Submitted as | : Water |
| Sample Certificate No | : 0417 | Sampling Method | : APHA 9060 A&B |
| Temperature °C | : 9.4°C | Site Observation | : Clear |
| Sampling Container | : Sterile Plastic Bottle | Source of Sample | : C5 Basement Low Zone |
| Sampling Point | : Chilled Water | Preservation | : 4-8°C |
| Sample Description | : Water | | |

| Parameters | Test Methods | Units | Results | Specification |
|---------------------------|--------------------------------|------------|--------------|---------------|
| Escherichia Celi | APHA 9222 B,H& I 23rd Ed. 2017 | CFU/100 ml | Not Detected | - |
| Faecal Coliforms | APHA 9222 D 23rd Ed. 2017 | CFU/100 ml | Not Detected | - |
| Heterotrophic plate count | APHA 9215 B 23rd Ed. 2017 | CFU/ml | Not Detected | 10000CFU/ml |
| Pseudomonas aeruginosa | CCFRA 2.5.2 5th Ed. 2007 | CFU/250 ml | Not Detected | - |
| Total Coliforms | APHA 9222 B 23rd Ed. 2017 | CFU/100 ml | Not Detected | - |

Note : Not Detected=<1CFU

Limit based on DM.Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

Remarks :The tested results of the sample are found to be satisfactory within the specified limits.

| | | |
|---------|-------------|------------------|
| Analyst | Reviewed By | Method Variation |
| JY | SM | None |

Key Words :CFU-Colony Forming Unit; APHA-American Public Health Association; CCFRA-Campden Chorleywood Food Research Association.

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Senior Microbiologist

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Legionella Test Report

Customer Details

Report No. WA-R-L-2004-6495

Crystalline Environmental Services



| | | | |
|-----------------------|---|---------------------|------------------------|
| Request No. | : WA-Q-L-2004-1073 | Sample No. | : WA-S-L-2004-6323 |
| Sampling Date/time | : 7/4/2020 , 12:30 | Report Date. | : 18/4/2020 |
| Analysis Start Date. | : 7/4/2020 | Analysis End Date. | : 17/4/2020 |
| Sample Location. | : City Of Lights C5 Building Hydra Tower - Abu Dhabi | Sampled By | : Shoukth |
| Sample Identification | : Not Applicable | Sample Submitted as | : Water |
| Sample Certificate No | : 0417 | Sampling Method | : BS 7592 |
| Temperature °C | : 9.4°C | Site Observation | : Clear |
| Sampling Container | : Sterile Plastic Bottle | Source of Sample | : C5 Basement Low Zone |
| Sampling Point | : Chilled Water | Preservation | : 10°C |
| Sample Description | : Water | | |

| Parameters | Test Methods | Units | Results | Specification |
|------------|-----------------|-------|--------------|---------------|
| Legionella | ISO 11731: 2017 | CFU/L | Not Detected | 100CFU/L |

Note : Limit of Detection=<20CFU/L

Procedure: WSOP-MB-0051. Filtration, Washing, Heat Treatment, Acid Treatment followed by Plating on GVPC/BCYE Agar.

Limit based on DM. Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

Remarks :The tested result of the sample is found to be satisfactory within the specified limits.

| Analyst | Reviewed By | Method Variation |
|---------|-------------|------------------|
| JY | SM | None |

Key Words :CFU-Colony Forming Unit; BS-British Standard; ISO-International Organization for Standardization.

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Senior Microbiologist



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Microbiology Test Report

Customer Details

Report No. WA-R-L-2004-6492

Crystalline Environmental Services



| | | | |
|-----------------------|---|---------------------|-------------------------|
| Request No. | : WA-Q-L-2004-1073 | Sample No. | : WA-S-L-2004-6320 |
| Sampling Date/time | : 7/4/2020 , 12:30 | Report Date. | : 9/4/2020 |
| Analysis Start Date. | : 7/4/2020 | Analysis End Date. | : 9/4/2020 |
| Sample Location. | : City Of Lights C5 Building Hydra Tower - Abu Dhabi | Sampled By | : Shoukth |
| Sample Identification | : Not Applicable | Sample Submitted as | : Water |
| Sample Certificate No | : 0417 | Sampling Method | : APHA 9060 A&B |
| Temperature °C | : 9.1°C | Site Observation | : Clear |
| Sampling Container | : Sterile Plastic Bottle | Source of Sample | : C5 Basement High Zone |
| Sampling Point | : Chilled Water | Preservation | : 4-8°C |
| Sample Description | : Water | | |

| Parameters | Test Methods | Units | Results | Specification |
|---------------------------|--------------------------------|------------|--------------|---------------|
| Escherichia Coli | APHA 9222 B,H& I 23rd Ed. 2017 | CFU/100 ml | Not Detected | - |
| Faecal Coliforms | APHA 9222 D 23rd Ed. 2017 | CFU/100 ml | Not Detected | - |
| Heterotrophic plate count | APHA 9215 B 23rd Ed. 2017 | CFU/ml | Not Detected | 10000CFU/ml |
| Pseudomonas aeruginosa | CCFRA 2.5.2 5th Ed. 2007 | CFU/250 ml | Not Detected | - |
| Total Coliforms | APHA 9222 B 23rd Ed. 2017 | CFU/100 ml | Not Detected | - |

Note : Not Detected=<1CFU

Limit based on DM.Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

Remarks :The tested results of the sample are found to be satisfactory within the specified limits.

| | | |
|---------|-------------|------------------|
| Analyst | Reviewed By | Method Variation |
| JY | SM | None |

Key Words :CFU-Colony Forming Unit; APHA-American Public Health Association; CCFRA-Campden Chorleywood Food Research Association.

Signed for and on behalf of Wimpey Laboratories

Dr. Suresh Murugan Ph.D

Senior Microbiologist



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Legionella Test Report

Customer Details

Crystalline Environmental Services

Report No. WA-R-L-2004-6493



| | | | |
|-----------------------|---|---------------------|-------------------------|
| Request No. | : WA-Q-L-2004-1073 | Sample No. | : WA-S-L-2004-6321 |
| Sampling Date/time | : 7/4/2020 , 12:30 | Report Date. | : 18/4/2020 |
| Analysis Start Date. | : 7/4/2020 | Analysis End Date. | : 17/4/2020 |
| Sample Location. | : City Of Lights C5 Building Hydra Tower - Abu Dhabi | Sampled By | : Shoukth |
| Sample Identification | : Not Applicable | Sample Submitted as | : Water |
| Sample Certificate No | : 0417 | Sampling Method | : BS 7592 |
| Temperature °C | : 9.1°C | Site Observation | : Clear |
| Sampling Container | : Sterile Plastic Bottle | Source of Sample | : C5 Basement High Zone |
| Sampling Point | : Chilled Water | Preservation | : 10°C |
| Sample Description | : Water | | |

| Parameters | Test Methods | Units | Results | Specification |
|------------|-----------------|-------|--------------|---------------|
| Legionella | ISO 11731: 2017 | CFU/L | Not Detected | 100CFU/L |

Note : Limit of Detection=<20CFU/L

Procedure: WSOP-MB-0051. Filtration, Washing, Heat Treatment, Acid Treatment followed by Plating on GVPC/BCYE Agar.

Limit based on DM. Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

Remarks :The tested result of the sample is found to be satisfactory within the specified limits.

| Analyst | Reviewed By | Method Variation |
|---------|-------------|------------------|
| JY | SM | None |

Key Words :CFU-Colony Forming Unit; BS-British Standard; ISO-International Organization for Standardization.

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Senior Microbiologist

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Microbiology Test Report

Customer Details

Crystalline Environmental Services

Report No. WA-R-L-2004-6498



| | | | |
|-----------------------|---|---------------------|------------------------|
| Request No. | : WA-Q-L-2004-1073 | Sample No. | : WA-S-L-2004-6326 |
| Sampling Date/time | : 7/4/2020 , 12:30 | Report Date. | : 9/4/2020 |
| Analysis Start Date. | : 7/4/2020 | Analysis End Date. | : 9/4/2020 |
| Sample Location. | : City Of Lights C6 Building Hydra Tower - Abu Dhabi | Sampled By | : Shoukth |
| Sample Identification | : Not Applicable | Sample Submitted as | : Water |
| Sample Certificate No | : 0417 | Sampling Method | : APHA 9060 A&B |
| Temperature °C | : 9.3°C | Site Observation | : Clear |
| Sampling Container | : Sterile Plastic Bottle | Source of Sample | : C6 Basement Low Zone |
| Sampling Point | : Chilled Water | Preservation | : 4-8°C |
| Sample Description | : Water | | |

| Parameters | Test Methods | Units | Results | Specification |
|---------------------------|--------------------------------|------------|--------------|---------------|
| Escherichia Coli | APHA 9222 B,H& I 23rd Ed. 2017 | CFU/100 ml | Not Detected | -- |
| Faecal Coliforms | APHA 9222 D 23rd Ed. 2017 | CFU/100 ml | Not Detected | -- |
| Heterotrophic plate count | APHA 9215 B 23rd Ed. 2017 | CFU/ml | Not Detected | 10000CFU/ml |
| Pseudomonas aeroginosa | CCFRA 2.5.2 5th Ed. 2007 | CFU/250 ml | Not Detected | -- |
| Total Coliforms | APHA 9222 B 23rd Ed. 2017 | CFU/100 ml | Not Detected | -- |

Note : Not Detected=<1CFU

Limit based on DM.Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

Remarks :The tested results of the sample are found to be satisfactory within the specified limits.

| | | |
|---------|-------------|------------------|
| Analyst | Reviewed By | Method Variation |
| JY | SM | None |

Key Words :CFU-Colony Forming Unit; APHA-American Public Health Association; CCFRA-Campden Chorleywood Food Research Association.

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Dr. Suresh Murugan Ph.D
Senior Microbiologist



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Legionella Test Report

Customer Details

Report No. WA-R-L-2004-6499

Crystalline Environmental Services



| | | | |
|-----------------------|---|---------------------|------------------------|
| Request No. | : WA-Q-L-2004-1073 | Sample No. | : WA-S-L-2004-6327 |
| Sampling Date/time | : 7/4/2020 , 12:30 | Report Date. | : 18/4/2020 |
| Analysis Start Date. | : 7/4/2020 | Analysis End Date. | : 17/4/2020 |
| Sample Location. | : City Of Lights C6 Building Hydra Tower - Abu Dhabi | Sampled By | : Shoukth |
| Sample Identification | : Not Applicable | Sample Submitted as | : Water |
| Sample Certificate No | : 0417 | Sampling Method | : BS 7592 |
| Temperature °C | : 9.3°C | Site Observation | : Clear |
| Sampling Container | : Sterile Plastic Bottle | Source of Sample | : C6 Basement Low Zone |
| Sampling Point | : Chilled Water | Preservation | : 10°C |
| Sample Description | : Water | | |

| Parameters | Test Methods | Units | Results | Specification |
|------------|-----------------|-------|--------------|---------------|
| Legionella | ISO 11731: 2017 | CFU/L | Not Detected | 100CFU/L |

Note : Limit of Detection=<20CFU/L

Procedure: WSOP-MB-0051. Filtration, Washing, Heat Treatment, Acid Treatment followed by Plating on GVPC/BCYE Agar.

Limit based on DM. Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

Remarks :The tested result of the sample is found to be satisfactory within the specified limits.

| Analyst | Reviewed By | Method Variation |
|---------|-------------|------------------|
| JY | SM | None |

Key Words :CFU-Colony Forming Unit; BS-British Standard; ISO-International Organization for Standardization.

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Senior Microbiologist

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Microbiology Test Report

Customer Details

Report No. WA-R-L-2004-6496

Crystalline Environmental Services



| | | | |
|-----------------------|---|---------------------|-------------------------|
| Request No. | : WA-Q-L-2004-1073 | Sample No. | : WA-S-L-2004-6324 |
| Sampling Date/time | : 7/4/2020 , 12:30 | Report Date. | : 9/4/2020 |
| Analysis Start Date. | : 7/4/2020 | Analysis End Date. | : 9/4/2020 |
| Sample Location. | : City Of Lights C6 Building Hydra Tower - Abu Dhabi | Sampled By | : Shoukth |
| Sample Identification | : Not Applicable | Sample Submitted as | : Water |
| Sample Certificate No | : 0417 | Sampling Method | : APHA 9060 A&B |
| Temperature °C | : 9.2°C | Site Observation | : Clear |
| Sampling Container | : Sterile Plastic Bottle | Source of Sample | : C6 Basement High Zone |
| Sampling Point | : Chilled Water | Preservation | : 4-8°C |
| Sample Description | : Water | | |

| Parameters | Test Methods | Units | Results | Specification |
|---------------------------|--------------------------------|------------|--------------|---------------|
| Escherichia Coli | APHA 9222 B,H& I 23rd Ed. 2017 | CFU/100 ml | Not Detected | - |
| Faecal Coliforms | APHA 9222 D 23rd Ed. 2017 | CFU/100 ml | Not Detected | - |
| Heterotrophic plate count | APHA 9215 B 23rd Ed. 2017 | CFU/ml | Not Detected | 10000CFU/ml |
| Pseudomonas aeruginosa | CCFRA 2.5.2 5th Ed. 2007 | CFU/250 ml | Not Detected | - |
| Total Coliforms | APHA 9222 B 23rd Ed. 2017 | CFU/100 ml | Not Detected | - |

Note : Not Detected=<1CFU

Limit based on DM.Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

Remarks :The tested results of the sample are found to be satisfactory within the specified limits.

| | | |
|---------|-------------|------------------|
| Analyst | Reviewed By | Method Variation |
| JY | SM | None |

Key Words :CFU-Colony Forming Unit; APHA-American Public Health Association; CCFRA-Campden Chorleywood Food Research Association.

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Legionella Test Report

Customer Details

Report No. WA-R-L-2004-6497

Crystalline Environmental Services



| | | | |
|-----------------------|---|---------------------|-------------------------|
| Request No. | : WA-Q-L-2004-1073 | Sample No. | : WA-S-L-2004-6325 |
| Sampling Date/time | : 7/4/2020 , 12:30 | Report Date. | : 18/4/2020 |
| Analysis Start Date. | : 7/4/2020 | Analysis End Date. | : 17/4/2020 |
| Sample Location. | : City Of Lights C6 Building Hydra Tower - Abu Dhabi | Sampled By | : Shoukth |
| Sample Identification | : Not Applicable | Sample Submitted as | : Water |
| Sample Certificate No | : 0417 | Sampling Method | : BS 7592 |
| Temperature °C | : 9.2°C | Site Observation | : Clear |
| Sampling Container | : Sterile Plastic Bottle | Source of Sample | : C6 Basement High Zone |
| Sampling Point | : Chilled Water | Preservation | : 10°C |
| Sample Description | : Water | | |

| Parameters | Test Methods | Units | Results | Specification |
|------------|-----------------|-------|--------------|---------------|
| Legionella | ISO 11731: 2017 | CFU/L | Not Detected | 100CFU/L |

Note : Limit of Detection=<20CFU/L

Procedure: WSOP-MB-0051. Filtration, Washing, Heat Treatment, Acid Treatment followed by Plating on GVPC/BCYE Agar.

Limit based on DM. Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

Remarks :The tested result of the sample is found to be satisfactory within the specified limits.

| Analyst | Reviewed By | Method Variation |
|---------|-------------|------------------|
| JY | SM | None |

Key Words :CFU-Colony Forming Unit; BS-British Standard; ISO-International Organization for Standardization.

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Senior Microbiologist

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Microbiology Test Report

Customer Details

Report No. WA-R-L-2004-6452

Crystalline Environmental Services



| | | | |
|-----------------------|-------------------------------------|---------------------|--------------------|
| Request No. | : WA-Q-L-2004-1067 | Sample No. | : WA-S-L-2004-6280 |
| Sampling Date/time | : 7/4/2020 , 10:00 | Report Date. | : 11/4/2020 |
| Analysis Start Date. | : 7/4/2020 | Analysis End Date. | : 9/4/2020 |
| Sample Location. | : Horizon Tower Al Reem - Abu Dhabi | Sampled By | : Shoukth |
| Sample Identification | : Not Applicable | Sample Submitted as | : Water |
| Sample Certificate No | : 0411 | Sampling Method | : APHA 9060 A&B |
| Temperature °C | : 13.1°C | Site Observation | : Clear |
| Sampling Container | : Sterile Plastic Bottle | Source of Sample | : E1 - High Zone |
| Sampling Point | : Chilled Water | Preservation | : 4-8°C |
| Sample Description | : Water | | |

| Parameters | Test Methods | Units | Results | Specification |
|---------------------------|--------------------------------|------------|--------------|---------------|
| Escherichia Coli | APHA 9222 B,H& I 23rd Ed. 2017 | CFU/100 ml | Not Detected | -- |
| Faecal Coliforms | APHA 9222 D 23rd Ed. 2017 | CFU/100 ml | Not Detected | -- |
| Heterotrophic plate count | APHA 9215 B 23rd Ed. 2017 | CFU/ml | Not Detected | 10000CFU/ml |
| Pseudomonas aeruginosa | CCFRA 2.5.2 5th Ed. 2007 | CFU/250 ml | Not Detected | -- |
| Total Coliforms | APHA 9222 B 23rd Ed. 2017 | CFU/100 ml | Not Detected | -- |

Note : Not Detected= \leq 1CFU

Limit based on DM.Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

Remarks :The tested results of the sample are found to be satisfactory within the specified limits.

| | | |
|---------|-------------|------------------|
| Analyst | Reviewed By | Method Variation |
| JY | SM | None |

Key Words :CFU-Colony Forming Unit; APHA-American Public Health Association; CCFRA-Campden Chorleywood Food Research Association.

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Senior Microbiologist



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Legionella Test Report

Customer Details

Report No. WA-R-L-2004-6454

Crystalline Environmental Services



| | | | |
|-----------------------|-------------------------------------|---------------------|--------------------|
| Request No. | : WA-Q-L-2004-1067 | Sample No. | : WA-S-L-2004-6282 |
| Sampling Date/time | : 7/4/2020 , 10:00 | Report Date. | : 18/4/2020 |
| Analysis Start Date. | : 7/4/2020 | Analysis End Date. | : 17/4/2020 |
| Sample Location. | : Horizon Tower Al Reem - Abu Dhabi | Sampled By | : Shoukth |
| Sample Identification | : Not Applicable | Sample Submitted as | : Water |
| Sample Certificate No | : 0411 | Sampling Method | : BS 7592 |
| Temperature °C | : 13.1°C | Site Observation | : Clear |
| Sampling Container | : Sterile Plastic Bottle | Source of Sample | : E1 - High Zone |
| Sampling Point | : Chilled Water | Preservation | : 10°C |
| Sample Description | : Water | | |

| Parameters | Test Methods | Units | Results | Specification |
|------------|-----------------|-------|--------------|---------------|
| Legionella | ISO 11731: 2017 | CFU/L | Not Detected | 100CFU/L |

Note : Limit of Detection=<20CFU/L

Procedure: WSOP-MB-0051. Filtration, Washing, Heat Treatment, Acid Treatment followed by Plating on GVPC/BCYE Agar.

Limit based on DM. Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

Remarks :The tested result of the sample is found to be satisfactory within the specified limits.

| | | |
|---------|-------------|------------------|
| Analyst | Reviewed By | Method Variation |
| JY | SM | None |

Key Words :CFU-Colony Forming Unit; BS-British Standard; ISO-International Organization for Standardization.

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Senior Microbiologist

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Microbiology Test Report

Customer Details

Report No. WA-R-L-2004-6456

Crystalline Environmental Services



| | | | |
|-----------------------|-------------------------------------|---------------------|--------------------|
| Request No. | : WA-Q-L-2004-1067 | Sample No. | : WA-S-L-2004-6284 |
| Sampling Date/time | : 7/4/2020 , 10:00 | Report Date. | : 11/4/2020 |
| Analysis Start Date. | : 7/4/2020 | Analysis End Date. | : 9/4/2020 |
| Sample Location. | : Horizon Tower Al Reem - Abu Dhabi | Sampled By | : Shoukth |
| Sample Identification | : Not Applicable | Sample Submitted as | : Water |
| Sample Certificate No | : 0411 | Sampling Method | : APHA 9060 A&B |
| Temperature °C | : 12.4°C | Site Observation | : Clear |
| Sampling Container | : Sterile Plastic Bottle | Source of Sample | : E2 - Low Zone |
| Sampling Point | : Chilled Water | Preservation | : 4-8°C |
| Sample Description | : Water | | |

| Parameters | Test Methods | Units | Results | Specification |
|---------------------------|--------------------------------|------------|--------------|---------------|
| Escherichia Coli | APHA 9222 B,H& I 23rd Ed. 2017 | CFU/100 ml | Not Detected | -- |
| Faecal Coliforms | APHA 9222 D 23rd Ed. 2017 | CFU/100 ml | Not Detected | -- |
| Heterotrophic plate count | APHA 9215 B 23rd Ed. 2017 | CFU/ml | Not Detected | 10000CFU/ml |
| Pseudomonas aeruginosa | CCFRA 2.5.2 5th Ed. 2007 | CFU/250 ml | Not Detected | -- |
| Total Coliforms | APHA 9222 B 23rd Ed. 2017 | CFU/100 ml | Not Detected | -- |

Note : Not Detected=<1CFU

Limit based on DM.Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

Remarks :The tested results of the sample are found to be satisfactory within the specified limits.

| | | |
|---------|-------------|------------------|
| Analyst | Reviewed By | Method Variation |
| JY | SM | None |

Key Words :CFU-Colony Forming Unit; APHA-American Public Health Association; CCFRA-Campden Chorleywood Food Research Association.

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Legionella Test Report

Customer Details

Report No. WA-R-L-2004-6458

Crystalline Environmental Services



| | | | |
|-----------------------|-------------------------------------|---------------------|--------------------|
| Request No. | : WA-Q-L-2004-1067 | Sample No. | : WA-S-L-2004-6286 |
| Sampling Date/time | : 7/4/2020 , 10:00 | Report Date. | : 18/4/2020 |
| Analysis Start Date. | : 7/4/2020 | Analysis End Date. | : 17/4/2020 |
| Sample Location. | : Horizon Tower Al Reem - Abu Dhabi | Sampled By | : Shoukth |
| Sample Identification | : Not Applicable | Sample Submitted as | : Water |
| Sample Certificate No | : 0411 | Sampling Method | : BS 7592 |
| Temperature °C | : 12.4°C | Site Observation | : Clear |
| Sampling Container | : Sterile Plastic Bottle | Source of Sample | : E2 - Low Zone |
| Sampling Point | : Chilled Water | Preservation | : 10°C |
| Sample Description | : Water | | |

| Parameters | Test Methods | Units | Results | Specification |
|------------|-----------------|-------|--------------|---------------|
| Legionella | ISO 11731: 2017 | CFU/L | Not Detected | 100CFU/L |

Note : Limit of Detection=<20CFU/L

Procedure: WSOP-MB-0051. Filtration, Washing, Heat Treatment, Acid Treatment followed by Plating on GVPC/BCYE Agar.

Limit based on DM. Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

Remarks :The tested result of the sample is found to be satisfactory within the specified limits.

| Analyst | Reviewed By | Method Variation |
|---------|-------------|------------------|
| JY | SM | None |

Key Words :CFU-Colony Forming Unit; BS-British Standard; ISO-International Organization for Standardization.

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Senior Microbiologist



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Microbiology Test Report

Customer Details

Report No. WA-R-L-2004-6460

Crystalline Environmental Services



| | | | |
|-----------------------|-------------------------------------|---------------------|--------------------|
| Request No. | : WA-Q-L-2004-1067 | Sample No. | : WA-S-L-2004-6288 |
| Sampling Date/time | : 7/4/2020 , 10:00 | Report Date. | : 11/4/2020 |
| Analysis Start Date. | : 7/4/2020 | Analysis End Date. | : 9/4/2020 |
| Sample Location. | : Horizon Tower Al Reem - Abu Dhabi | Sampled By | : Shoukth |
| Sample Identification | : Not Applicable | Sample Submitted as | : Water |
| Sample Certificate No | : 0411 | Sampling Method | : APHA 9060 A&B |
| Temperature °C | : 13.2°C | Site Observation | : Clear |
| Sampling Container | : Sterile Plastic Bottle | Source of Sample | : E2 |
| Sampling Point | : Chilled Water | Preservation | : 4-8°C |
| Sample Description | : Water | | |

| Parameters | Test Methods | Units | Results | Specification |
|---------------------------|--------------------------------|------------|--------------|---------------|
| Escherichia Coli | APHA 9222 B,H& I 23rd Ed. 2017 | CFU/100 ml | Not Detected | - |
| Faecal Coliforms | APHA 9222 D 23rd Ed. 2017 | CFU/100 ml | Not Detected | - |
| Heterotrophic plate count | APHA 9215 B 23rd Ed. 2017 | CFU/ml | Not Detected | 10000CFU/ml |
| Pseudomonas aeruginosa | CCFRA 2.5.2 5th Ed. 2007 | CFU/250 ml | Not Detected | - |
| Total Coliforms | APHA 9222 B 23rd Ed. 2017 | CFU/100 ml | Not Detected | - |

Note : Not Detected=<1CFU

Limit based on DM.Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

Remarks :The tested results of the sample are found to be satisfactory within the specified limits.

| | | |
|---------|-------------|------------------|
| Analyst | Reviewed By | Method Variation |
| JY | SM | None |

Key Words :CFU-Colony Forming Unit; APHA-American Public Health Association; CCFRA-Campden Chorleywood Food Research Association.

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Legionella Test Report

Customer Details

Report No. WA-R-L-2004-6461

Crystalline Environmental Services



| | | | |
|-----------------------|-------------------------------------|---------------------|--------------------|
| Request No. | : WA-Q-L-2004-1067 | Sample No. | : WA-S-L-2004-6289 |
| Sampling Date/time | : 7/4/2020 , 10:00 | Report Date. | : 18/4/2020 |
| Analysis Start Date. | : 7/4/2020 | Analysis End Date. | : 17/4/2020 |
| Sample Location. | : Horizon Tower Al Reem - Abu Dhabi | Sampled By | : Shoukth |
| Sample Identification | : Not Applicable | Sample Submitted as | : Water |
| Sample Certificate No | : 0411 | Sampling Method | : BS 7592 |
| Temperature °C | : 13.2°C | Site Observation | : Clear |
| Sampling Container | : Sterile Plastic Bottle | Source of Sample | : E2 |
| Sampling Point | : Chilled Water | Preservation | : 10°C |
| Sample Description | : Water | | |

| Parameters | Test Methods | Units | Results | Specification |
|------------|-----------------|-------|--------------|---------------|
| Legionella | ISO 11731: 2017 | CFU/L | Not Detected | 100CFU/L |

Note : Limit of Detection=<20CFU/L

Procedure: WSOP-MB-0051. Filtration, Washing, Heat Treatment, Acid Treatment followed by Plating on GVPC/BCYE Agar.

Limit based on DM. Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

Remarks :The tested result of the sample is found to be satisfactory within the specified limits.

| Analyst | Reviewed By | Method Variation |
|---------|-------------|------------------|
| JY | SM | None |

Key Words :CFU-Colony Forming Unit; BS-British Standard; ISO-International Organization for Standardization.

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