



Microbiology Test Report

Customer Details

Crystalline Environmental Services

Report No. WA-R-L-2005-9468



Request No.	: WA-Q-L-2005-1488	Sample No.	: WA-S-L-2005-9271
Sampling Date/time	: 18/5/2020 , 10:30	Report Date.	: 21/5/2020
Analysis Start Date.	: 18/5/2020	Analysis End Date.	: 20/5/2020
Sample Location.	: Etihad Airways Engineering	Sampled By	: Client Representative
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0862	Sampling Method	: Not Given
Temperature °C	: Not Given	Site Observation	: Not Given
Sampling Container	: Plastic Bottle	Source of Sample	: Main Tank
Sampling Point	: Tank	Preservation	: Not Given
Sample Description	: Water		

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

Note : Not Detected=<1CFU

Limits based on RSB Water Quality Regulation 2014. Schedule 1. Table F For Microbiological Parameters.

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-2005-9467



Request No.	: WA-Q-L-2005-1488	Sample No.	: WA-S-L-2005-9271
Sampling Date/time	: 18/5/2020 , 10:30	Report Date.	: 28/5/2020
Analysis Start Date.	: 18/5/2020	Analysis End Date.	: 28/5/2020
Sample Location.	: Etihad Airways Engineering	Sampled By	: Client Representative
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0862	Sampling Method	: Not Given
Temperature °C	: Not Given	Site Observation	: Not Given
Sampling Container	: Plastic Bottle	Source of Sample	: Main Tank
Sampling Point	: Tank	Preservation	: Not Given
Sample Description	: Water		

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

Note : Limit of Detection=<1CFU/L

Procedure: WSOP-MB-0051 Direct Placing of Membrane on BCYE+L-Cysteine/Membrane Filter Followed by Washing Procedure in Funnel.

Limits based on RSB Water Quality Regulation 2014. Schedule 1. Table F For Microbiological Parameters.

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.

Signed for and on behalf of Wimpey Laboratories



Dr. Suresh Murugan Ph.D
Senior Microbiologist

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Microbiology Test Report

Customer Details

Crystalline Environmental Services

Report No. WA-R-L-2005-9470



Request No.	: WA-Q-L-2005-1488	Sample No.	: WA-S-L-2005-9272
Sampling Date/time	: 18/5/2020 , 10:30	Report Date.	: 21/5/2020
Analysis Start Date.	: 18/5/2020	Analysis End Date.	: 20/5/2020
Sample Location.	: Etihad Airways Engineering	Sampled By	: Client Representative
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0862	Sampling Method	: Not Given
Temperature °C	: Not Given	Site Observation	: Not Given
Sampling Container	: Plastic Bottle	Source of Sample	: Aviation
Sampling Point	: Valve	Preservation	: Not Given
Sample Description	: Water		

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

Note : Not Detected=<1CFU

Limits based on RSB Water Quality Regulation 2014. Schedule 1. Table F For Microbiological Parameters.

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

Crystalline Environmental Services

Report No. WA-R-L-2005-9469



Request No.	: WA-Q-L-2005-1488	Sample No.	: WA-S-L-2005-9272
Sampling Date/time	: 18/5/2020 , 10:30	Report Date.	: 28/5/2020
Analysis Start Date.	: 18/5/2020	Analysis End Date.	: 28/5/2020
Sample Location	: Etihad Airways Engineering	Sampled By	: Client Representative
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0862	Sampling Method	: Not Given
Temperature °C	: Not Given	Site Observation	: Not Given
Sampling Container	: Plastic Bottle	Source of Sample	: Aviation
Sampling Point	: Valve	Preservation	: Not Given
Sample Description	: Water		

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

Note : Limit of Detection=<1CFU/L

Procedure: WSOP-MB-0051 Direct Placing of Membrane on BCYE+L-Cysteine/Membrane Filter Followed by Washing Procedure in Funnel.

Limits based on RSB Water Quality Regulation 2014. Schedule 1. Table F For Microbiological Parameters.

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

Crystalline Environmental Services

Report No. WA-R-L-2005-9462



Request No.	: WA-Q-L-2005-1488	Sample No.	: WA-S-L-2005-9268
Sampling Date/time	: 18/5/2020 , 10:30	Report Date.	: 21/5/2020
Analysis Start Date.	: 18/5/2020	Analysis End Date.	: 20/5/2020
Sample Location.	: Etihad Airways Engineering	Sampled By	: Client Representative
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0862	Sampling Method	: Not Given
Temperature °C	: Not Given	Site Observation	: Not Given
Sampling Container	: Plastic Bottle	Source of Sample	: Hanger 04
Sampling Point	: Tank	Preservation	: Not Given
Sample Description	: Water		

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

Note : Not Detected=<1CFU

Limits based on RSB Water Quality Regulation 2014. Schedule 1. Table F For Microbiological Parameters.

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



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Legionella Test Report

Customer Details

Crystalline Environmental Services

Report No. WA-R-L-2005-9461



Request No.	: WA-Q-L-2005-1488	Sample No.	: WA-S-L-2005-9268
Sampling Date/time	: 18/5/2020 , 10:30	Report Date.	: 28/5/2020
Analysis Start Date.	: 18/5/2020	Analysis End Date.	: 28/5/2020
Sample Location.	: Etihad Airways Engineering	Sampled By	: Client Representative
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0862	Sampling Method	: Not Given
Temperature °C	: Not Given	Site Observation	: Not Given
Sampling Container	: Plastic Bottle	Source of Sample	: Hanger 04
Sampling Point	: Tank	Preservation	: Not Given
Sample Description	: Water		

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

Note : Limit of Detection=<1CFU/L

Procedure: WSOP-MB-0051 Direct Placing of Membrane on BCYE+L-Cysteine/Membrane Filter Followed by Washing Procedure in Funnel.

Limits based on RSB Water Quality Regulation 2014. Schedule 1. Table F For Microbiological Parameters.

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

Crystalline Environmental Services

Report No. WA-R-L-2005-9464



Request No.	: WA-Q-L-2005-1488	Sample No.	: WA-S-L-2005-9269
Sampling Date/time	: 18/5/2020 , 10:30	Report Date.	: 21/5/2020
Analysis Start Date.	: 18/5/2020	Analysis End Date.	: 20/5/2020
Sample Location.	: Etihad Airways Engineering	Sampled By	: Client Representative
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0862	Sampling Method	: Not Given
Temperature °C	: Not Given	Site Observation	: Not Given
Sampling Container	: Plastic Bottle	Source of Sample	: Hanger 05
Sampling Point	: Tank	Preservation	: Not Given
Sample Description	: Water		

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

Note : Not Detected=<1CFU

Limits based on RSB Water Quality Regulation 2014. Schedule 1. Table F For Microbiological Parameters.

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



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Legionella Test Report

Report No. WA-R-L-2005-9463

Customer Details

Crystalline Environmental Services



Request No.	: WA-Q-L-2005-1488	Sample No.	: WA-S-L-2005-9269
Sampling Date/time	: 18/5/2020 , 10:30	Report Date.	: 28/5/2020
Analysis Start Date.	: 18/5/2020	Analysis End Date.	: 28/5/2020
Sample Location.	: Etihad Airways Engineering	Sampled By	: Client Representative
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0862	Sampling Method	: Not Given
Temperature °C	: Not Given	Site Observation	: Not Given
Sampling Container	: Plastic Bottle	Source of Sample	: Hanger 05
Sampling Point	: Tank	Preservation	: Not Given
Sample Description	: Water		

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

Note : Limit of Detection=<1CFU/L

Procedure: WSOP-MB-0051 Direct Placing of Membrane on BCYE+L-Cysteine/Membrane Filter Followed by Washing Procedure in Funnel.

Limits based on RSB Water Quality Regulation 2014. Schedule 1. Table F For Microbiological Parameters.

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

Report No. WA-R-L-2005-9466

Customer Details

Crystalline Environmental Services



Request No.	: WA-Q-L-2005-1488	Sample No.	: WA-S-L-2005-9270
Sampling Date/time	: 18/5/2020 , 10:30	Report Date.	: 21/5/2020
Analysis Start Date.	: 18/5/2020	Analysis End Date.	: 20/5/2020
Sample Location.	: Etihad Airways Engineering	Sampled By	: Client Representative
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0862	Sampling Method	: Not Given
Temperature °C	: Not Given	Site Observation	: Not Given
Sampling Container	: Plastic Bottle	Source of Sample	: Bay 06
Sampling Point	: Tank	Preservation	: Not Given
Sample Description	: Water		

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

Note : Not Detected=<1CFU

Limits based on RSB Water Quality Regulation 2014. Schedule 1. Table F For Microbiological Parameters.

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

Crystalline Environmental Services

Report No. WA-R-L-2005-9465



Request No.	: WA-Q-L-2005-1488	Sample No.	: WA-S-L-2005-9270
Sampling Date/time	: 18/5/2020 , 10:30	Report Date.	: 28/5/2020
Analysis Start Date.	: 18/5/2020	Analysis End Date.	: 28/5/2020
Sample Location.	: Etihad Airways Engineering	Sampled By	: Client Representative
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0862	Sampling Method	: Not Given
Temperature °C	: Not Given	Site Observation	: Not Given
Sampling Container	: Plastic Bottle	Source of Sample	: Bay 06
Sampling Point	: Tank	Preservation	: Not Given
Sample Description	: Water		

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

Note : Limit of Detection= \leq 1CFU/L

Procedure: WSOP-MB-0051 Direct Placing of Membrane on BCYE+L-Cysteine/Membrane Filter Followed by Washing Procedure in Funnel.

Limits based on RSB Water Quality Regulation 2014. Schedule 1. Table F For Microbiological Parameters.

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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