



# EMSL Analytical, Inc.

2500 Gateway Centre Blvd., Suite 600 Morrisville, NC 27560  
Tel/Fax: (919) 465-3900 / (919) 465-3950  
<http://www.EMSL.com> / [raleighlab@emsl.com](mailto:raleighlab@emsl.com)

EMSL Order: 292204807  
Customer ID: APXC62  
Customer PO: STA010-0526025-22006853 T2  
Project ID:

**Attention:** Carolyn Pitera  
Apex Companies, LLC  
9700 Capital Court, Ste 100  
Manassas, VA 20110

**Phone:** (703) 396-6730  
**Fax:** (703) 396-6743  
**Collected Date:** 06/09/2022 08:43 AM - 06/09/2022 09:13 AM  
**Received Date:** 06/10/2022 09:45 AM  
**Processed Date:** 06/10/2022 12:00 PM  
**Analyzed Date:** 06/20/2022 03:00 PM

**Project:** Dixon-Smith MS Water/SCPS Legionella Sampling

## Legionella Detection - ID & Enumeration of *L. pneumophila* & *Legionella* species by ISO 11731:2017 Culture Method (EMSL Test Code M341 & Method MICRO-SOP-105)

Client Sample ID/Sample Location Lab Sample Number	Sample Type	Volume Submitted (mL)	Volume Filtered (mL)	Method Processed	Identification	Volume Examined (mL)	Limit of Detection (CFU/mL)	Final Results (CFU/mL)
060922DSM 01W 292204807-0001	Potable	250	250	Concentrated	None Detected	5	0.20	ND
060922DSM 02W 292204807-0002	Potable	250	250	Concentrated (Acid)	None Detected	5	0.20	ND
060922DSM 03W 292204807-0003	Potable	250	250	Concentrated	None Detected	5	0.20	ND
060922DSM 04W 292204807-0004	Potable	250	250	Concentrated	None Detected	5	0.20	ND

Billy Barnes, Laboratory Manager  
or other Approved Signatory

*Legionella* identification is carried out using a direct fluorescent antibody (DFA) for *Legionella pneumophila* (serogroups 1-14) and a DFA for 15 other *Legionella* species. *Legionella* spp. have tested negative by DFA but are positive for growth on selective media. ND = None Detected/Below LOD. The limit of detection (LOD) is the lowest reportable CFU/mL count and is dependent on the sample volume processed and the dilutions used during testing. Volume processed may be lower than volume submitted if sample is turbid or contains components that restrict concentration of the sample. Volume examined is the calculated amount of the original sample that is plated for culture analysis. High bacterial counts (*Legionella* or otherwise) may require dilution of the sample that will lower the Volume Examined and raise the Limit of Detection.

Samples high in non-*Legionella* bacteria may obscure the detection of *Legionella*.

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted.

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Initial report from: 06/24/2022 02:19 PM

Printed 06/24/2022 02:20 PM

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EMSL Order: 292204808  
Customer ID: APXC62  
Customer PO: STA010-0526025-22006853 T2  
Project ID:

**Attention:** Carolyn Pitera  
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9700 Capital Court, Ste 100  
Manassas, VA 20110

**Phone:** (703) 396-6730  
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**Collected Date:** 06/09/2022 08:40 AM - 06/09/2022 09:10 AM  
**Received Date:** 06/10/2022 09:45 AM  
**Processed Date:** 06/10/2022 12:00 AM - 06/10/2022 05:15 PM  
**Analyzed Date:** 06/20/2022 03:00 PM

**Project:** Dixon-Smith MS Swabs/SCPS Legionella Sampling

## Legionella Detection - ID & Enumeration of *L. pneumophila* & *Legionella* species by ISO 11731:2017 Culture Method (EMSL Test Code M341 & Method MICRO-SOP-105)

Client Sample ID/Sample Location Lab Sample Number	Sample Type	Swabs Submitted	Volume Resuspended (mL)	Method Processed	Identification	Limit of Detection (CFU/swab)	Final Results (CFU/swab)
060922DSM 01S 292204808-0001	Potable	0	5	Dilution	None Detected	50.00	ND
060922DSM 02S 292204808-0002	Potable	0	5	Dilution (Acid)	None Detected	50.00	ND
060922DSM 03S 292204808-0003	Potable	0	5	Dilution	None Detected	50.00	ND
060922DSM 04S 292204808-0004	Potable	0	5	Dilution	None Detected	50.00	ND

Billy Barnes, Laboratory Manager  
or other Approved Signatory

*Legionella* identification is carried out using a direct fluorescent antibody (DFA) for *Legionella pneumophila* (serogroups 1-14) and a DFA for 15 other *Legionella* species. *Legionella* spp. have tested negative by DFA but are positive for growth on selective media. ND = None Detected/Below LOD. The limit of detection (LOD) is the lowest reportable CFU/swab count and is dependent on the resuspended volume and the dilutions used during testing. High bacterial counts (*Legionella* or otherwise) may require dilution of the sample that will raise the Limit of Detection.

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Initial report from: 06/24/2022 02:07 PM

Printed 06/24/2022 02:07 PM

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EMSL Order: 292208143  
Customer ID: APXC62  
Customer PO: STA0110-0526025 Task 3  
Project ID: Stafford County Public School

**Attention:** Carolyn Pitera  
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**Phone:** (703) 396-6730  
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**Collected Date:** 09/20/2022 04:39 PM - 09/20/2022 07:41 PM  
**Received Date:** 09/22/2022 09:00 AM  
**Processed Date:** 09/22/2022 02:00 PM  
**Analyzed Date:** 10/03/2022 10:45 AM

**Project:** Dixon Middle School/SCPS 75% Legionella (Stafford County Public School (SCPS))

## Legionella Detection - ID & Enumeration of *L. pneumophila* & *Legionella* species by ISO 11731:2017 Culture Method (EMSL Test Code M341 & Method MICRO-SOP-105)

Client Sample ID/Sample Location Lab Sample Number	Sample Type	Volume Submitted (mL)	Volume Filtered (mL)	Method Processed	Identification	Volume Examined (mL)	Limit of Detection (CFU/mL)	Final Results (CFU/mL)
DMS92022-01W - cafeteria right - Enter description 292208143-0001		250	250	Concentrated	None Detected	5	0.20	ND
DMS92022-02W - right side of gym, left fountain - Enter description 292208143-0002		250	250	Concentrated (Heat)	None Detected	5	0.20	ND
DMS92022-03W - right side of gym, middle fountain - Enter description 292208143-0003		250	250	Concentrated	None Detected	5	0.20	ND
DMS92022-04W - left side of gym, right fountain - Enter description 292208143-0004		250	250	Concentrated	None Detected	5	0.20	ND
DMS92022-05W - left side of gym, middle fountain - Enter description 292208143-0005		250	250	Concentrated	None Detected	5	0.20	ND
DMS92022-06W - main desk right - Enter description 292208143-0006		250	250	Concentrated	None Detected	5	0.20	ND
DMS92022-07W - main desk left - Enter description 292208143-0007		250	250	Concentrated	None Detected	5	0.20	ND
DMS92022-08W - room 126 right - Enter description 292208143-0008		250	250	Concentrated	None Detected	5	0.20	ND
DMS92022-09W - room 126 left - Enter description 292208143-0009		250	250	Concentrated	None Detected	5	0.20	ND
DMS92022-10W - room 130 - Enter description 292208143-0010		250	250	Concentrated	None Detected	5	0.20	ND
DMS92022-11W - room 101 left - Enter description 292208143-0011		250	250	Concentrated	None Detected	5	0.20	ND
DMS92022-12W - room 101 right - Enter description 292208143-0012		250	250	Concentrated	None Detected	5	0.20	ND
DMS92022-13W - across from room 241 left - Enter description 292208143-0013		250	250	Concentrated	None Detected	5	0.20	ND
DMS92022-14W - room 220 left - Enter description 292208143-0014		250	250	Concentrated	None Detected	5	0.20	ND
DMS92022-15W - room 220 right - Enter description 292208143-0015		250	250	Concentrated	None Detected	5	0.20	ND

Initial report from: 10/04/2022 01:03 PM

Printed 10/04/2022 01:04 PM



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**Customer PO:** STA0110-0526025 Task 3  
**Project ID:** Stafford County Public School

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**Received Date:** 09/22/2022 09:00 AM  
**Processed Date:** 09/22/2022 02:00 PM  
**Analyzed Date:** 10/03/2022 10:45 AM

**Project:** Dixon Middle School/SCPS 75% Legionella (Stafford County Public School (SCPS))

DMS92022-16W - room 206 left - Enter description 292208143-0016	250	250	Concentrated	None Detected	5	0.20	ND
DMS92022-17W - room 206 right - Enter description 292208143-0017	250	250	Concentrated	None Detected	5	0.20	ND
DMS92022-18W - blank - Enter description 292208143-0018	250	250	Concentrated	None Detected	5	0.20	ND

Billy Barnes, Laboratory Manager  
or other Approved Signatory

*Legionella* identification is carried out using a direct fluorescent antibody (DFA) for *Legionella pneumophila* (serogroups 1-14) and a DFA for 15 other *Legionella* species. *Legionella* spp. have tested negative by DFA but are positive for growth on selective media. ND = None Detected/Below LOD. The limit of detection (LOD) is the lowest reportable CFU/mL count and is dependent on the sample volume processed and the dilutions used during testing. Volume processed may be lower than volume submitted if sample is turbid or contains components that restrict concentration of the sample. Volume examined is the calculated amount of the original sample that is plated for culture analysis. High bacterial counts (*Legionella* or otherwise) may require dilution of the sample that will lower the Volume Examined and raise the Limit of Detection.

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Printed 10/04/2022 01:04 PM



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EMSL Order: 292208144  
Customer ID: APXC62  
Customer PO: STA0110-0526025 Task 3  
Project ID: Stafford County Public School

**Attention:** Carolyn Pitera  
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**Collected Date:** 09/20/2022 04:39 PM - 09/21/2022 07:40 PM  
**Received Date:** 09/22/2022 09:00 AM  
**Processed Date:** 09/22/2022 03:25 PM  
**Analyzed Date:** 10/04/2022 03:30 PM

**Project:** Dixon Middle School/SCPS 75% Legionella (Stafford County Public School (SCPS))

## Legionella Detection - ID & Enumeration of *L. pneumophila* & *Legionella* species by ISO 11731:2017 Culture Method (EMSL Test Code M341 & Method MICRO-SOP-105)

Client Sample ID/Sample Location Lab Sample Number	Sample Type	Swabs Submitted	Volume Resuspended (mL)	Method Processed	Identification	Limit of Detection (CFU/swab)	Final Results (CFU/swab)
DMS92022-01S - cafeteria, right 292208144-0001		1	5	Dilution	None Detected	50.00	ND
DMS92022-02S - right side of gym, left 292208144-0002		1	5	Dilution	None Detected	50.00	ND
DMS92022-03S - right side of gym, middle 292208144-0003		1	5	Dilution	None Detected	50.00	ND
DMS92022-04S - left side of gym, right 292208144-0004		1	5	Dilution	None Detected	50.00	ND
DMS92022-05S - left side of gym, middle 292208144-0005		1	5	Dilution	None Detected	50.00	ND
DMS92022-06S - main desk, right 292208144-0006		1	5	Dilution	None Detected	50.00	ND
DMS92022-07S - main desk, left 292208144-0007		1	5	Dilution	None Detected	50.00	ND
DMS92022-08S - room 126, right 292208144-0008		1	5	Dilution	None Detected	50.00	ND
DMS92022-09S - room 126, left 292208144-0009		1	5	Dilution	None Detected	50.00	ND
DMS92022-10S - room 130 292208144-0010		1	5	Dilution	None Detected	50.00	ND
DMS92022-11S - room 101, left 292208144-0011		1	5	Dilution	None Detected	50.00	ND
DMS92022-12S - room 101, right 292208144-0012		1	5	Dilution	None Detected	50.00	ND
DMS92022-13S - room 241, left 292208144-0013		1	5	Dilution (Acid)	None Detected	500.00	ND
DMS92022-14S - room 220, left 292208144-0014		1	5	Dilution	None Detected	50.00	ND
DMS92022-15S - room 220, right 292208144-0015		1	5	Dilution	None Detected	50.00	ND
DMS92022-16S - room 206, left 292208144-0016		1	5	Dilution (Acid)	None Detected	500.00	ND
DMS92022-17S - room 206, right 292208144-0017		1	5	Dilution	None Detected	50.00	ND
DMS92022-18S - blank 292208144-0018		1	5	Dilution	None Detected	50.00	ND
DMS92022-19S - main office bottle filler 292208144-0019		1	5	Dilution	None Detected	50.00	ND

Initial report from: 10/05/2022 06:45 PM

Printed 10/05/2022 06:45 PM

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EMSL Order: 292208144

Customer ID: APXC62

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**Project:** Dixon Middle School/SCPS 75% Legionella (Stafford County Public School (SCPS))

Billy Barnes, Laboratory Manager  
or other Approved Signatory

*Legionella* identification is carried out using a direct fluorescent antibody (DFA) for *Legionella pneumophila* (serogroups 1-14) and a DFA for 15 other *Legionella* species. *Legionella* spp. have tested negative by DFA but are positive for growth on selective media. ND = None Detected/Below LOD. The limit of detection (LOD) is the lowest reportable CFU/swab count and is dependent on the resuspended volume and the dilutions used during testing. High bacterial counts (*Legionella* or otherwise) may require dilution of the sample that will raise the Limit of Detection.

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