

# *The Commonwealth of Massachusetts*



## *Department of Environmental Protection*

*Division of Environmental Laboratory Sciences*

*Senator William X. Wall Experiment Station*

*certifies*

**M-MA022**

**ANALYTICAL BALANCE, DIV OF THIELSH ENG  
422 WEST GROVE ST  
MIDDLEBOROUGH, MA 02346-0000**

*Laboratory Director:* **LAUREL STODDARD**

*for the analysis of* **NON POTABLE WATER (CHEMISTRY)  
NON POTABLE WATER (MICROBIOLOGY)  
POTABLE WATER (MICROBIOLOGY)  
POTABLE WATER (CHEMISTRY)**

*pursuant to 310 CMR 42.00*

*This certificate supersedes all previous Massachusetts certificates issued to this laboratory. The laboratory is regulated by and shall be responsible for being in compliance with Massachusetts regulations at 310 CMR 42.00.*

*This certificate is valid only when accompanied by the latest dated Certified Parameter List as issued by the Massachusetts D.E.P. Contact the Division of Environmental Laboratory Sciences to verify the current certification status of the laboratory.*

*Certification is no guarantee of the validity of the data. This certification is subject to unannounced laboratory inspections.*

A handwritten signature in black ink, appearing to read "Oscar C. Jacobo".

*Director, Division of Environmental Laboratory Sciences*

*Issued:* **01 JUL 2023**

*Expires:* **30 JUN 2024**

**COMMONWEALTH OF MASSACHUSETTS  
DEPARTMENT OF ENVIRONMENTAL PROTECTION**

**Certified Parameter List as of: 24 APR 2023**

**M-MA022 ANALYTICAL BALANCE, DIV OF THIELSH ENG  
MIDDLEBOROUGH MA**

<b>NON POTABLE WATER (CHEMISTRY)</b>	<b>Effective Date</b>	<b>03 MAR 2023</b>	<b>Expiration Date</b>	<b>30 JUN 2024</b>
<u><b>Analytes</b></u>			<u><b>Methods</b></u>	
ALUMINUM			EPA 200.8	
ANTIMONY			EPA 200.8	
ARSENIC			EPA 200.8	
BERYLLIUM			EPA 200.8	
CADMIUM			EPA 200.8	
CHROMIUM			EPA 200.8	
COBALT			EPA 200.8	
COPPER			SM 3111B	
COPPER			EPA 200.8	
IRON			SM 3111B	
LEAD			EPA 200.8	
MANGANESE			SM 3111B	
MANGANESE			EPA 200.8	
MOLYBDENUM			EPA 200.8	
NICKEL			EPA 200.8	
SELENIUM			EPA 200.8	
SILVER			SM 3111B	
SILVER			EPA 200.8	
THALLIUM			EPA 200.8	
VANADIUM			EPA 200.8	
ZINC			SM 3111B	
ZINC			EPA 200.8	
PH			SM 4500-H-B	
SPECIFIC CONDUCTIVITY			SM 2510B	
TOTAL DISSOLVED SOLIDS			SM 2540C	
HARDNESS (CaCO3), TOTAL			SM 2340B	
CALCIUM			SM 3111B	
MAGNESIUM			SM 3111B	
SODIUM			SM 3111B	
POTASSIUM			SM 3111B	
ALKALINITY, TOTAL			SM 2320B	
ALKALINITY, TOTAL			EPA 310.2	
CHLORIDE			SM 4110B	
SULFATE			SM 4110B	
AMMONIA-N			EPA 350.1	
NITRATE-N			EPA 353.2	
NITRATE-N			SM 4110B	
KJELDAHL-N			EPA 351.2	
ORTHOPHOSPHATE			SM 4500-P-E	
ORTHOPHOSPHATE			SM 4110B	
PHOSPHORUS, TOTAL			SM 4500-P-B,E	
CHEMICAL OXYGEN DEMAND			HACH METHOD 8000	
BIOCHEMICAL OXYGEN DEMAND			SM 5210B	

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MIDDLEBOROUGH MA**

<b>NON POTABLE WATER (CHEMISTRY)</b>	<b>Effective Date</b>	<b>03 MAR 2023</b>	<b>Expiration Date</b>	<b>30 JUN 2024</b>
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**Analytes**

NON-FILTERABLE RESIDUE  
CHLORINE, TOTAL RESIDUAL  
OIL AND GREASE

**Methods**

SM 2540D  
SM 4500-CL-G  
EPA 1664

<b>POTABLE WATER (CHEMISTRY)</b>	<b>Effective Date</b>	<b>03 MAR 2023</b>	<b>Expiration Date</b>	<b>30 JUN 2024</b>
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**Analytes**

ANTIMONY  
ARSENIC  
BARIUM  
BERYLLIUM  
CADMIUM  
CHROMIUM  
COPPER  
COPPER  
LEAD  
MERCURY  
NICKEL  
SELENIUM  
THALLIUM  
NITRATE-N  
NITRATE-N  
NITRATE-N  
NITRITE-N  
NITRITE-N  
NITRITE-N  
FLUORIDE  
FLUORIDE  
SODIUM  
SULFATE  
TURBIDITY  
CHLORINE, RESIDUAL FREE  
CALCIUM  
ALKALINITY, TOTAL  
TOTAL DISSOLVED SOLIDS  
PH

**Methods**

EPA 200.8  
EPA 200.8  
EPA 200.8  
EPA 200.8  
EPA 200.8  
EPA 200.8  
EPA 200.8  
SM 3111B  
EPA 200.8  
EPA 200.8  
EPA 200.8  
EPA 353.2  
SM 4110B  
SM 4500-NO3-D  
EPA 353.2  
SM 4110B  
SM 4500-NO2-B  
SM 4110B  
SM 4500-F-C  
SM 3111B  
SM 4110B  
SM 2130B  
SM 4500-CL-G  
SM 3111B  
SM 2320B  
SM 2540C  
SM 4500-H-B

**COMMONWEALTH OF MASSACHUSETTS  
DEPARTMENT OF ENVIRONMENTAL PROTECTION**

**Certified Parameter List as of: 24 APR 2023**

**M-MA022 ANALYTICAL BALANCE, DIV OF THIELSH ENG  
MIDDLEBOROUGH MA**

**NON POTABLE WATER (MICROBIOLOGY)      Effective Date      01 JUL 2015      Expiration Date      30 JUN 2024**

**Analytes**

**Methods**

E. COLI	AMBIENT WATER	EPA 1603
E. COLI	AMBIENT WATER	EPA 1604
ENTEROCOCCI	AMBIENT WATER	EPA 1600
FECAL COLIFORM	WASTEWATER	MF-SM9222D
E. COLI	WASTEWATER	EPA 1603
ENTEROCOCCI	WASTEWATER	EPA 1600

**POTABLE WATER (MICROBIOLOGY)      Effective Date      23 NOV 2022      Expiration Date      30 JUN 2024**

**Analytes**

**Methods**

HETEROTROPHIC PLATE COUNT		SM9215B
TOTAL COLIFORM	WATER TREATMENT AND DISTRIBUTION (P/A)	MF-SM9222B
TOTAL COLIFORM	WATER TREATMENT AND DISTRIBUTION (P/A)	EPA 1604
TOTAL COLIFORM	WATER TREATMENT AND DISTRIBUTION (P/A)	ENZ. SUB. SM9223
FECAL COLIFORM	SOURCE WATER (ENUMERATION)	MF-SM9222D
E. COLI	WATER TREATMENT AND DISTRIBUTION (P/A)	ENZ. SUB. SM9223
E. COLI	WATER TREATMENT AND DISTRIBUTION (P/A)	EPA 1604
E. COLI	WATER TREATMENT AND DISTRIBUTION (P/A)	NA-MUG-SM9222G
TOTAL COLIFORM	SOURCE WATER (ENUMERATION)	EPA 1604
E. COLI	SOURCE WATER (ENUMERATION)	EPA 1603
E. COLI	SOURCE WATER (ENUMERATION)	EPA 1604
ENTEROCOCCI	SOURCE WATER (P/A)	EPA 1600
ENTEROCOCCI	SOURCE WATER (P/A)	ENTEROLERT