

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: **27 SEP 2023**

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

NON POTABLE WATER (CHEMISTRY)	Effective Date	03 MAR 2023	Expiration Date	30 JUN 2024
<u>Analytes</u>			<u>Methods</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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**M-MA022 ANALYTICAL BALANCE, DIV OF THIELSH ENG
MIDDLEBOROUGH MA**

NON POTABLE WATER (CHEMISTRY)	Effective Date	03 MAR 2023	Expiration Date	30 JUN 2024
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Analytes

NON-FILTERABLE RESIDUE
CHLORINE, TOTAL RESIDUAL
OIL AND GREASE

Methods

SM 2540D
SM 4500-CL-G
EPA 1664

POTABLE WATER (CHEMISTRY)	Effective Date	27 SEP 2023	Expiration Date	30 JUN 2024
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Analytes

ALUMINUM
ANTIMONY
ARSENIC
BARIUM
BERYLLIUM
CADMIUM
CHROMIUM
COPPER
COPPER
IRON
LEAD
MANGANESE
MANGANESE
MERCURY
NICKEL
SELENIUM
SILVER
SILVER
THALLIUM
ZINC
ZINC
NITRATE-N
NITRATE-N
NITRATE-N
NITRITE-N
NITRITE-N
NITRITE-N
FLUORIDE
FLUORIDE
SODIUM
CHLORIDE
SULFATE
TURBIDITY
CHLORINE, RESIDUAL FREE
CALCIUM
ALKALINITY, TOTAL

Methods

EPA 200.8
EPA 200.8
EPA 200.8
EPA 200.8
EPA 200.8
EPA 200.8
EPA 200.8
EPA 200.8
SM 3111B
SM 3111B
EPA 200.8
EPA 200.8
SM 3111B
EPA 200.8
EPA 200.8
SM 3111B
EPA 200.8
EPA 200.8
SM 3111B
EPA 200.8
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 4110B
SM 2130B
SM 4500-CL-G
SM 3111B
SM 2320B

COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Certified Parameter List as of: 27 SEP 2023

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

POTABLE WATER (CHEMISTRY) Effective Date 27 SEP 2023 Expiration Date 30 JUN 2024

Analytes

TOTAL DISSOLVED SOLIDS
PH

Methods

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