

# *The Commonwealth of Massachusetts*



## *Department of Environmental Protection*

*Division of Environmental Laboratory Sciences*

*Senator William X. Wall Experiment Station*

*certifies*

**M-CT007**

**PHOENIX ENVIRONMENTAL LABORATORIES INC  
587 EAST MIDDLE TPKE  
MANCHESTER, CT 06040-0000**

*Laboratory Director:* **PHYLLIS SHILLER**

*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, reading "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: 13 APR 2023**

**M-CT007 PHOENIX ENVIRONMENTAL LABORATORIES INC  
MANCHESTER CT**

| <b>NON POTABLE WATER (CHEMISTRY)</b> | <b>Effective Date</b> | <b>05 SEP 2019</b> | <b>Expiration Date</b> | <b>30 JUN 2024</b> |
|--------------------------------------|-----------------------|--------------------|------------------------|--------------------|
| <u><b>Analytes</b></u>               |                       |                    | <u><b>Methods</b></u>  |                    |
| ALUMINUM                             |                       |                    | EPA 200.7              |                    |
| ALUMINUM                             |                       |                    | EPA 200.8              |                    |
| ANTIMONY                             |                       |                    | EPA 200.7              |                    |
| ANTIMONY                             |                       |                    | SM 3113B               |                    |
| ANTIMONY                             |                       |                    | EPA 200.8              |                    |
| ARSENIC                              |                       |                    | EPA 200.7              |                    |
| ARSENIC                              |                       |                    | SM 3113B               |                    |
| ARSENIC                              |                       |                    | EPA 200.8              |                    |
| BERYLLIUM                            |                       |                    | EPA 200.7              |                    |
| BERYLLIUM                            |                       |                    | EPA 200.8              |                    |
| CADMIUM                              |                       |                    | EPA 200.7              |                    |
| CADMIUM                              |                       |                    | EPA 200.8              |                    |
| CHROMIUM                             |                       |                    | EPA 200.7              |                    |
| CHROMIUM                             |                       |                    | EPA 200.8              |                    |
| COBALT                               |                       |                    | EPA 200.7              |                    |
| COBALT                               |                       |                    | EPA 200.8              |                    |
| COPPER                               |                       |                    | EPA 200.7              |                    |
| COPPER                               |                       |                    | EPA 200.8              |                    |
| IRON                                 |                       |                    | EPA 200.7              |                    |
| IRON                                 |                       |                    | EPA 200.8              |                    |
| LEAD                                 |                       |                    | EPA 200.7              |                    |
| LEAD                                 |                       |                    | SM 3113B               |                    |
| LEAD                                 |                       |                    | EPA 200.8              |                    |
| MANGANESE                            |                       |                    | EPA 200.7              |                    |
| MANGANESE                            |                       |                    | EPA 200.8              |                    |
| MERCURY                              |                       |                    | EPA 245.1              |                    |
| MOLYBDENUM                           |                       |                    | EPA 200.7              |                    |
| MOLYBDENUM                           |                       |                    | EPA 200.8              |                    |
| NICKEL                               |                       |                    | EPA 200.7              |                    |
| NICKEL                               |                       |                    | EPA 200.8              |                    |
| SELENIUM                             |                       |                    | EPA 200.7              |                    |
| SELENIUM                             |                       |                    | SM 3113B               |                    |
| SELENIUM                             |                       |                    | EPA 200.8              |                    |
| SILVER                               |                       |                    | EPA 200.7              |                    |
| SILVER                               |                       |                    | EPA 200.8              |                    |
| STRONTIUM                            |                       |                    | EPA 200.7              |                    |
| THALLIUM                             |                       |                    | EPA 200.7              |                    |
| THALLIUM                             |                       |                    | EPA 200.9              |                    |
| THALLIUM                             |                       |                    | EPA 200.8              |                    |
| TITANIUM                             |                       |                    | EPA 200.7              |                    |
| TITANIUM                             |                       |                    | EPA 200.8              |                    |
| VANADIUM                             |                       |                    | EPA 200.7              |                    |
| VANADIUM                             |                       |                    | EPA 200.8              |                    |

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MANCHESTER CT**

| <b>NON POTABLE WATER (CHEMISTRY)</b> | <b>Effective<br/>Date</b> | <b>05 SEP 2019</b> | <b>Expiration<br/>Date</b> | <b>30 JUN 2024</b>    |
|--------------------------------------|---------------------------|--------------------|----------------------------|-----------------------|
| <u><b>Analytes</b></u>               |                           |                    |                            | <u><b>Methods</b></u> |
| ZINC                                 |                           |                    |                            | EPA 200.7             |
| ZINC                                 |                           |                    |                            | EPA 200.8             |
| PH                                   |                           |                    |                            | SM 4500-H-B           |
| SPECIFIC CONDUCTIVITY                |                           |                    |                            | SM 2510B              |
| TOTAL DISSOLVED SOLIDS               |                           |                    |                            | SM 2540C              |
| HARDNESS (CaCO3), TOTAL              |                           |                    |                            | EPA 200.7             |
| CALCIUM                              |                           |                    |                            | EPA 200.7             |
| CALCIUM                              |                           |                    |                            | EPA 200.8             |
| MAGNESIUM                            |                           |                    |                            | EPA 200.7             |
| MAGNESIUM                            |                           |                    |                            | EPA 200.8             |
| SODIUM                               |                           |                    |                            | EPA 200.7             |
| SODIUM                               |                           |                    |                            | EPA 200.8             |
| POTASSIUM                            |                           |                    |                            | EPA 200.7             |
| POTASSIUM                            |                           |                    |                            | EPA 200.8             |
| ALKALINITY, TOTAL                    |                           |                    |                            | SM 2320B              |
| CHLORIDE                             |                           |                    |                            | SM 4500-CL-E          |
| CHLORIDE                             |                           |                    |                            | EPA 300.0             |
| SULFATE                              |                           |                    |                            | SM 4500-SO4-D         |
| SULFATE                              |                           |                    |                            | EPA 300.0             |
| AMMONIA-N                            |                           |                    |                            | EPA 350.1             |
| NITRATE-N                            |                           |                    |                            | EPA 300.0             |
| NITRATE-N                            |                           |                    |                            | EPA 353.2             |
| KJELDAHL-N                           |                           |                    |                            | EPA 351.1             |
| ORTHOPHOSPHATE                       |                           |                    |                            | SM 4500-P-E           |
| PHOSPHORUS, TOTAL                    |                           |                    |                            | SM 4500-P-B,E         |
| CHEMICAL OXYGEN DEMAND               |                           |                    |                            | SM 5220D              |
| BIOCHEMICAL OXYGEN DEMAND            |                           |                    |                            | SM 5210B              |
| TOTAL ORGANIC CARBON                 |                           |                    |                            | SM 5310B              |
| CYANIDE, TOTAL                       |                           |                    |                            | EPA 335.4             |
| NON-FILTERABLE RESIDUE               |                           |                    |                            | SM 2540D              |
| CHLORINE, TOTAL RESIDUAL             |                           |                    |                            | SM 4500-CL-G          |
| OIL AND GREASE                       |                           |                    |                            | EPA 1664              |
| PHENOLICS, TOTAL                     |                           |                    |                            | EPA 420.4             |
| VOLATILE HALOCARBONS                 |                           |                    |                            | EPA 624.1             |
| VOLATILE AROMATICS                   |                           |                    |                            | EPA 624.1             |
| CHLORDANE                            |                           |                    |                            | EPA 608.3             |
| TOXAPHENE                            |                           |                    |                            | EPA 608.3             |
| ALDRIN                               |                           |                    |                            | EPA 608.3             |
| ALPHA-BHC                            |                           |                    |                            | EPA 608.3             |
| BETA-BHC                             |                           |                    |                            | EPA 608.3             |
| GAMMA-BHC                            |                           |                    |                            | EPA 608.3             |
| DELTA-BHC                            |                           |                    |                            | EPA 608.3             |
| DIELDRIN                             |                           |                    |                            | EPA 608.3             |

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MANCHESTER CT**

| <b>NON POTABLE WATER (CHEMISTRY)</b> | <b>Effective Date</b> | <b>05 SEP 2019</b> | <b>Expiration Date</b> | <b>30 JUN 2024</b> |
|--------------------------------------|-----------------------|--------------------|------------------------|--------------------|
| <u>Analytes</u>                      |                       |                    | <u>Methods</u>         |                    |
| DDD                                  |                       |                    | EPA 608.3              |                    |
| DDE                                  |                       |                    | EPA 608.3              |                    |
| DDT                                  |                       |                    | EPA 608.3              |                    |
| ENDOSULFAN I                         |                       |                    | EPA 608.3              |                    |
| ENDOSULFAN II                        |                       |                    | EPA 608.3              |                    |
| ENDOSULFAN SULFATE                   |                       |                    | EPA 608.3              |                    |
| ENDRIN                               |                       |                    | EPA 608.3              |                    |
| ENDRIN ALDEHYDE                      |                       |                    | EPA 608.3              |                    |
| HEPTACHLOR                           |                       |                    | EPA 608.3              |                    |
| HEPTACHLOR EPOXIDE                   |                       |                    | EPA 608.3              |                    |
| SVOC-ACID EXTRACTABLES               |                       |                    | EPA 625.1              |                    |
| SVOC-BASE/NEUTRAL EXTRACTABLES       |                       |                    | EPA 625.1              |                    |
| POLYCHLORINATED BIPHENYLS (WATER)    |                       |                    | EPA 608.3              |                    |
| POLYCHLORINATED BIPHENYLS (OIL)      |                       |                    | EPA 600/4-81-045       |                    |

| <b>POTABLE WATER (CHEMISTRY)</b> | <b>Effective Date</b> | <b>01 JUL 2018</b> | <b>Expiration Date</b> | <b>30 JUN 2024</b> |
|----------------------------------|-----------------------|--------------------|------------------------|--------------------|
| <u>Analytes</u>                  |                       |                    | <u>Methods</u>         |                    |
| ALUMINUM                         |                       |                    | EPA 200.7              |                    |
| ALUMINUM                         |                       |                    | EPA 200.8              |                    |
| ANTIMONY                         |                       |                    | EPA 200.8              |                    |
| ANTIMONY                         |                       |                    | EPA 200.9              |                    |
| ARSENIC                          |                       |                    | EPA 200.8              |                    |
| ARSENIC                          |                       |                    | EPA 200.9              |                    |
| BARIUM                           |                       |                    | EPA 200.7              |                    |
| BARIUM                           |                       |                    | EPA 200.8              |                    |
| BERYLLIUM                        |                       |                    | EPA 200.7              |                    |
| BERYLLIUM                        |                       |                    | EPA 200.8              |                    |
| CADMIUM                          |                       |                    | EPA 200.7              |                    |
| CADMIUM                          |                       |                    | EPA 200.8              |                    |
| CHROMIUM                         |                       |                    | EPA 200.7              |                    |
| CHROMIUM                         |                       |                    | EPA 200.8              |                    |
| COPPER                           |                       |                    | EPA 200.5              |                    |
| COPPER                           |                       |                    | EPA 200.7              |                    |
| COPPER                           |                       |                    | EPA 200.8              |                    |
| IRON                             |                       |                    | EPA 200.7              |                    |
| LEAD                             |                       |                    | EPA 200.5              |                    |
| LEAD                             |                       |                    | EPA 200.8              |                    |
| LEAD                             |                       |                    | EPA 200.9              |                    |
| MANGANESE                        |                       |                    | EPA 200.7              |                    |
| MANGANESE                        |                       |                    | EPA 200.8              |                    |
| MERCURY                          |                       |                    | EPA 245.1              |                    |
| NICKEL                           |                       |                    | EPA 200.7              |                    |

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|----------------------------------|---------------------------|--------------------|----------------------------|-----------------------|
| <u><b>Analytes</b></u>           |                           |                    |                            | <u><b>Methods</b></u> |
| NICKEL                           |                           |                    |                            | EPA 200.8             |
| SELENIUM                         |                           |                    |                            | EPA 200.8             |
| SELENIUM                         |                           |                    |                            | EPA 200.9             |
| SILVER                           |                           |                    |                            | EPA 200.7             |
| SILVER                           |                           |                    |                            | EPA 200.8             |
| THALLIUM                         |                           |                    |                            | EPA 200.8             |
| THALLIUM                         |                           |                    |                            | EPA 200.9             |
| ZINC                             |                           |                    |                            | EPA 200.7             |
| ZINC                             |                           |                    |                            | EPA 200.8             |
| NITRATE-N                        |                           |                    |                            | EPA 300.0             |
| NITRATE-N                        |                           |                    |                            | EPA 353.2             |
| NITRITE-N                        |                           |                    |                            | EPA 300.0             |
| NITRITE-N                        |                           |                    |                            | EPA 353.2             |
| FLUORIDE                         |                           |                    |                            | EPA 300.0             |
| FLUORIDE                         |                           |                    |                            | SM 4500-F-C           |
| SODIUM                           |                           |                    |                            | EPA 200.7             |
| CHLORIDE                         |                           |                    |                            | EPA 300.0             |
| SULFATE                          |                           |                    |                            | EPA 300.0             |
| CYANIDE, TOTAL                   |                           |                    |                            | EPA 335.4             |
| TURBIDITY                        |                           |                    |                            | SM 2130B              |
| CHLORINE, RESIDUAL FREE          |                           |                    |                            | SM 4500-CL-G          |
| CALCIUM                          |                           |                    |                            | EPA 200.7             |
| ALKALINITY, TOTAL                |                           |                    |                            | SM 2320B              |
| TOTAL DISSOLVED SOLIDS           |                           |                    |                            | SM 2540C              |
| PH                               |                           |                    |                            | SM 4500-H-B           |
| 2,4-D                            |                           |                    |                            | EPA 515.3             |
| 2,4,5-TP                         |                           |                    |                            | EPA 515.3             |
| DALAPON                          |                           |                    |                            | EPA 515.3             |
| DINOSEB                          |                           |                    |                            | EPA 515.3             |
| PENTACHLOROPHENOL                |                           |                    |                            | EPA 515.3             |
| PICLORAM                         |                           |                    |                            | EPA 515.3             |
| ALACHLOR                         |                           |                    |                            | EPA 525.3             |
| ATRAZINE                         |                           |                    |                            | EPA 525.3             |
| CHLORDANE                        |                           |                    |                            | EPA 525.3             |
| ENDRIN                           |                           |                    |                            | EPA 525.3             |
| HEPTACHLOR                       |                           |                    |                            | EPA 525.3             |
| HEPTACHLOR EPOXIDE               |                           |                    |                            | EPA 525.3             |
| HEXACHLOROBENZENE                |                           |                    |                            | EPA 525.3             |
| HEXACHLOROCYCLOPENTADIENE        |                           |                    |                            | EPA 525.3             |
| LINDANE                          |                           |                    |                            | EPA 525.3             |
| METHOXYCHLOR                     |                           |                    |                            | EPA 525.3             |
| SIMAZINE                         |                           |                    |                            | EPA 525.3             |
| TOXAPHENE                        |                           |                    |                            | EPA 525.3             |

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| <u>Analytes</u>             |                |             | <u>Methods</u>  |             |
| ALDICARB                    |                |             | EPA 531.2       |             |
| ALDICARB SULFONE            |                |             | EPA 531.2       |             |
| ALDICARB SULFOXIDE          |                |             | EPA 531.2       |             |
| CARBOFURAN                  |                |             | EPA 531.2       |             |
| VYDATE                      |                |             | EPA 531.2       |             |
| BENZO-A-PYRENE              |                |             | EPA 525.3       |             |
| ADIPATES/PHTHALATES         |                |             | EPA 525.3       |             |
| TRIHALOMETHANES             |                |             | EPA 524.2       |             |
| VOLATILE ORGANIC COMPOUNDS  |                |             | EPA 524.2       |             |
| 1,2-DIBROMOETHANE           |                |             | EPA 504.1       |             |
| 1,2-DIBROMO-3-CHLOROPROPANE |                |             | EPA 504.1       |             |
| HALOACETIC ACIDS            |                |             | EPA 552.2       |             |
| 1,4-DIOXANE                 |                |             | EPA 522         |             |
| DIQUAT                      |                |             | EPA 549.2       |             |
| GLYPHOSATE                  |                |             | EPA 547         |             |

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MANCHESTER CT

NON POTABLE WATER (MICROBIOLOGY)      Effective Date      01 JUL 2022      Expiration Date      30 JUN 2024

Analytes

|                |               |
|----------------|---------------|
| E. COLI        | AMBIENT WATER |
| ENTEROCOCCI    | AMBIENT WATER |
| FECAL COLIFORM | WASTEWATER    |
| FECAL COLIFORM | WASTEWATER    |
| E. COLI        | WASTEWATER    |
| ENTEROCOCCI    | WASTEWATER    |

Methods

SM 9223B-COLILERT  
ENTEROLERT  
MF-SM9222D  
SM9223B-COLILERT-18  
SM 9223B-COLILERT  
ENTEROLERT

POTABLE WATER (MICROBIOLOGY)      Effective Date      04 FEB 2016      Expiration Date      30 JUN 2024

Analytes

|                           |  |
|---------------------------|--|
| HETEROTROPHIC PLATE COUNT |  |
| TOTAL COLIFORM            | WATER TREATMENT AND DISTRIBUTION (P/A) |
| TOTAL COLIFORM            | WATER TREATMENT AND DISTRIBUTION (P/A) |
| FECAL COLIFORM            | SOURCE WATER (ENUMERATION)             |
| E. COLI                   | WATER TREATMENT AND DISTRIBUTION (P/A) |
| E. COLI                   | WATER TREATMENT AND DISTRIBUTION (P/A) |
| TOTAL COLIFORM            | SOURCE WATER (ENUMERATION)             |
| TOTAL COLIFORM            | SOURCE WATER (ENUMERATION)             |
| E. COLI                   | SOURCE WATER (ENUMERATION)             |
| E. COLI                   | SOURCE WATER (ENUMERATION)             |
| ENTEROCOCCI               | SOURCE WATER (P/A)                     |

Methods

SM9215B  
MF-SM9222B  
ENZ. SUB. SM9223  
MF-SM9222D  
ENZ. SUB. SM9223  
NA-MUG-SM9222G  
MF-SM9222B  
SM 9223B-COLILERT  
SM 9223B-COLILERT  
NA-MUG-SM9222G  
ENTEROLERT

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M-CT007

PHOENIX ENVIRONMENTAL LABORATORIES INC  
MANCHESTER CT

POTABLE WATER (RADIOCHEMISTRY)

Effective Date 04 NOV 2016

Expiration Date 30 JUN 2024

Analytes

URANIUM

Methods

EPA 200.8