

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 (MICROBIOLOGY)
POTABLE WATER (MICROBIOLOGY)
POTABLE WATER (CHEMISTRY)
POTABLE WATER (RADIOCHEMISTRY)
NON 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 cursive script, reading "Oscar C. Jacobe".

Director, Division of Environmental Laboratory Sciences

Issued: 01 JUL 2018

Expires: 30 JUN 2019

COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Certified Parameter List as of: 01 JUL 2018

M-CT007

PHOENIX ENVIRONMENTAL LABORATORIES INC
MANCHESTER CT

NON POTABLE WATER (CHEMISTRY)

Effective
Date

01 JUL 2018

Expiration Date 30 JUN 2019

Analytes

Methods

| | |
|------------|-----------|
| 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 |

June 27, 2018

*= Provisional Certification

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**COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF ENVIRONMENTAL PROTECTION**

Certified Parameter List as of: **01 JUL 2018**

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

| NON POTABLE WATER (CHEMISTRY) | Effective Date | 01 JUL 2018 | Expiration Date | 30 JUN 2019 |
|--------------------------------------|-----------------------|--------------------|------------------------|--------------------|
| <u>Analytes</u> | | | <u>Methods</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 5310C | |
| 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 | |

COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Certified Parameter List as of: 01 JUL 2018

M-CT007

PHOENIX ENVIRONMENTAL LABORATORIES INC
MANCHESTER CT

NON POTABLE WATER (CHEMISTRY)

Effective Date 01 JUL 2018

Expiration Date 30 JUN 2019

Analytes

Methods

| | |
|----------------------------------|------------------|
| 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 (WATEF | EPA 608.3 |
| POLYCHLORINATED BIPHENYLS (OIL) | EPA 600/4-81-045 |

POTABLE WATER (CHEMISTRY)

Effective Date 01 JUL 2018

Expiration Date 30 JUN 2019

Analytes

Methods

| | |
|-----------|-----------|
| 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 |

**COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF ENVIRONMENTAL PROTECTION**

Certified Parameter List as of: **01 JUL 2018**

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

| POTABLE WATER (CHEMISTRY) | Effective Date | 01 JUL 2018 | Expiration Date | 30 JUN 2019 |
|----------------------------------|---------------------------|--------------------|----------------------------|--------------------|
| <u>Analytes</u> | | | <u>Methods</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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MANCHESTER CT

| <u>POTABLE WATER (CHEMISTRY)</u> | <u>Effective Date</u> | <u>01 JUL 2018</u> | <u>Expiration Date</u> | <u>30 JUN 2019</u> |
|----------------------------------|-----------------------|--------------------|------------------------|--------------------|
| <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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Certified Parameter List as of: 01 JUL 2018

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

NON POTABLE WATER (MICROBIOLOGY) Effective Date 15 FEB 2018 Expiration Date 30 JUN 2019

Analytes

Methods

| | | |
|----------------|---------------|---------------------|
| E. COLI | AMBIENT WATER | SM 9223B-COLILERT |
| E. COLI | AMBIENT WATER | NA-MUG-SM9222G |
| ENTEROCOCCI | AMBIENT WATER | ENTEROLERT |
| FECAL COLIFORM | WASTEWATER | MF-SM9222D |
| FECAL COLIFORM | WASTEWATER | SM9223B-COLILERT-18 |
| E. COLI | WASTEWATER | SM 9223B-COLILERT |
| ENTEROCOCCI | WASTEWATER | ENTEROLERT |

POTABLE WATER (MICROBIOLOGY) Effective Date 04 FEB 2016 Expiration Date 30 JUN 2019

Analytes

Methods

| | | |
|---------------------------|--|-------------------|
| HETEROTROPHIC PLATE COUNT | | SM9215B |
| TOTAL COLIFORM | WATER TREATMENT AND DISTRIBUTION (P/A) | MF-SM9222B |
| 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) | NA-MUG-SM9222G |
| TOTAL COLIFORM | SOURCE WATER (ENUMERATION) | MF-SM9222B |
| TOTAL COLIFORM | SOURCE WATER (ENUMERATION) | SM 9223B-COLILERT |
| E. COLI | SOURCE WATER (ENUMERATION) | SM 9223B-COLILERT |
| E. COLI | SOURCE WATER (ENUMERATION) | NA-MUG-SM9222G |
| ENTEROCOCCI | SOURCE WATER (P/A) | 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 2019

Analytes

URANIUM

Methods

EPA 200.8