

# *The Commonwealth of Massachusetts*



## *Department of Environmental Protection*

*Division of Environmental Laboratory Sciences*

*Senator William X. Wall Experiment Station*

*certifies*

M-RI002

ESS LABORATORY  
DIV OF THIELSCH ENGINEERING  
185 FRANCES AVE  
CRANSTON, RI 02910-0000

*Laboratory Director:* LAUREL STODDARD

*for the analysis of* POTABLE WATER (CHEMISTRY)  
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. Jacabo".

*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: **09 MAY 2019**

**M-RI002            ESS LABORATORY  
                         CRANSTON RI**

<b>NON POTABLE WATER (CHEMISTRY)</b>	<b>Effective Date</b>	<b>17 AUG 2018</b>	<b>Expiration Date</b>	<b>30 JUN 2019</b>
<u><b>Analytes</b></u>				<u><b>Methods</b></u>
ALUMINUM				EPA 200.7
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
LEAD				EPA 200.7
LEAD				SM 3113B
LEAD				EPA 200.8
MANGANESE				EPA 200.7
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
THALLIUM				EPA 200.7
THALLIUM				EPA 200.8
THALLIUM				EPA 279.2
TITANIUM				EPA 200.7
VANADIUM				EPA 200.7
ZINC				EPA 200.7
PH				SM 4500-H-B
SPECIFIC CONDUCTIVITY				EPA 120.1
TOTAL DISSOLVED SOLIDS				SM 2540C
HARDNESS (CaCO3), TOTAL				SM 2340B
CALCIUM				EPA 200.7
MAGNESIUM				EPA 200.7

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<u>Analytes</u>			<u>Methods</u>	
SODIUM			EPA 200.7	
POTASSIUM			EPA 200.7	
ALKALINITY, TOTAL			SM 2320B	
CHLORIDE			SM 4500-CL-E	
CHLORIDE			EPA 300.0	
FLUORIDE			EPA 300.0	
SULFATE			EPA 300.0	
AMMONIA-N			SM 4500-NH3-B, D	
AMMONIA-N			EPA 350.1	
NITRATE-N			EPA 353.2	
KJELDAHL-N			SM 4500-NH3-B, D	
KJELDAHL-N			EPA 351.2	
ORTHOPHOSPHATE			EPA 365.1	
ORTHOPHOSPHATE			EPA 365.3	
ORTHOPHOSPHATE			EPA 300.0	
PHOSPHORUS, TOTAL			EPA 365.3	
PHOSPHORUS, TOTAL			EPA 365.1	
CHEMICAL OXYGEN DEMAND			EPA 410.4	
BIOCHEMICAL OXYGEN DEMAND			SM 5210B	
TOTAL ORGANIC CARBON			SM 5310B	
CYANIDE, TOTAL			SM 4500-CN-C,E	
NON-FILTERABLE RESIDUE			SM 2540D	
CHLORINE, TOTAL RESIDUAL			SM 4500-CL-D	
CHLORINE, TOTAL RESIDUAL			SM 4500-CL-G	
OIL AND GREASE			EPA 1664	
PHENOLICS, TOTAL			EPA 420.1	
VOLATILE HALOCARBONS			EPA 624.1	
VOLATILE AROMATICS			EPA 624.1	
CHLORDANE			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	
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	

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**Analytes**

**Methods**

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

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**Analytes**

**Methods**

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 200.7
COPPER	EPA 200.8
LEAD	EPA 200.8
LEAD	EPA 200.9
MERCURY	EPA 245.1
NICKEL	EPA 200.7
NICKEL	EPA 200.8
SELENIUM	EPA 200.8
SELENIUM	EPA 200.9
SILVER	EPA 200.8
THALLIUM	EPA 200.8
THALLIUM	EPA 200.9
NITRITE-N	EPA 353.2
FLUORIDE	EPA 300.0
SODIUM	EPA 200.7
SULFATE	EPA 300.0
CYANIDE, TOTAL	SM 4500-CN-C,E
TURBIDITY	EPA 180.1
CALCIUM	EPA 200.7
ALKALINITY, TOTAL	SM 2320B
TOTAL DISSOLVED SOLIDS	SM 2540C

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POTABLE WATER (CHEMISTRY)

Effective    09 MAY 2019  
Date

Expiration   30 JUN 2019  
Date

Analytes

Methods

PH	EPA 150.1
PH	SM 4500-H-B
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