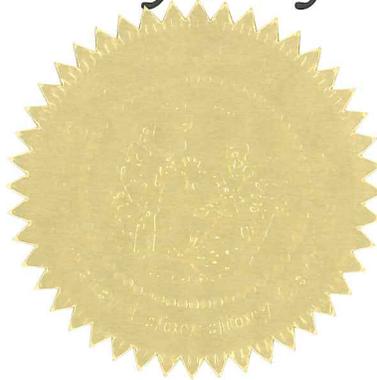


North Carolina
Department of Health and Human Services
Laboratory Certification



*in accordance with the provisions of regulations 10A NCAC 42D 0.200
certification for the analysis of drinking water has been granted to*

Eurofins Lancaster Laboratories Environmental
Laboratory Number 42705

For the following analyte group(s)

Organic Chemistry

Refer to most-recent status sheet for analytes and methods

July 1, 2020

Issue date

July 31, 2021

Expiration date

Elizabeth Tilson, MD, MPH
State Health Director

Scott M. Shone, PhD, HCLD (ABB)
Director, State Laboratory



Michele Sartir
Drinking Water Certification

*This laboratory has met the minimum requirements for the certification to analyze drinking water.
This certificate does not guarantee accurate results.*

*North Carolina Department of Health and Human Services
State Laboratory of Public Health*

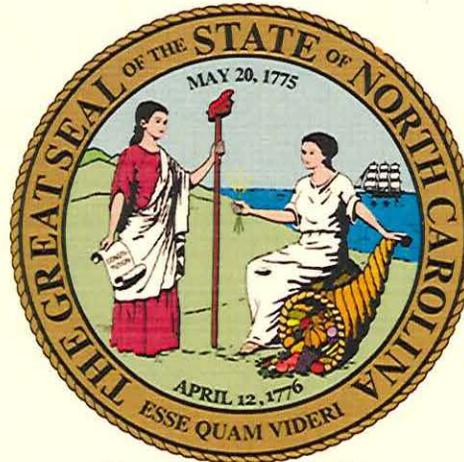
EUROFINS LANCASTER LABORATORIES ENVIR Lab Number 42705 Effective Date: July 1, 2020

North Carolina Drinking Water Certification Status Sheet :

Analyte Code (UR = Unregulated)	Method Code	Method
THMs		
2943	524.2	GC/MS - P&T, Cap col.
2942	524.2	GC/MS - P&T, Cap col.
2944	524.2	GC/MS - P&T, Cap col.
2941	524.2	GC/MS - P&T, Cap col.
2950	524.2	GC/MS - P&T, Cap col.
VOCs		
2981	524.2	GC/MS - P&T, Cap col.
2985	524.2	GC/MS - P&T, Cap col.
2977	524.2	GC/MS - P&T, Cap col.
2378	524.2	GC/MS - P&T, Cap col.
2968	524.2	GC/MS - P&T, Cap col.
2980	524.2	GC/MS - P&T, Cap col.
2983	524.2	GC/MS - P&T, Cap col.
2969	524.2	GC/MS - P&T, Cap col.
2990	524.2	GC/MS - P&T, Cap col.
2982	524.2	GC/MS - P&T, Cap col.
2989	524.2	GC/MS - P&T, Cap col.
2380	524.2	GC/MS - P&T, Cap col.
2964	524.2	GC/MS - P&T, Cap col.
2992	524.2	GC/MS - P&T, Cap col.
2996	524.2	GC/MS - P&T, Cap col.
2987	524.2	GC/MS - P&T, Cap col.
2991	524.2	GC/MS - P&T, Cap col.
2955	524.2	GC/MS - P&T, Cap col.
2979	524.2	GC/MS - P&T, Cap col.
2984	524.2	GC/MS - P&T, Cap col.
2976	524.2	GC/MS - P&T, Cap col.

DIVISION OF WATER RESOURCES LABORATORY CERTIFICATION BRANCH

In accordance with the provisions of N.C.G.S. 143-215.3 (a) (1), 143-215.3 (a)(10) and NCAC 2H.0800:



2020

Eurofins Lancaster Laboratories Environmental LLC

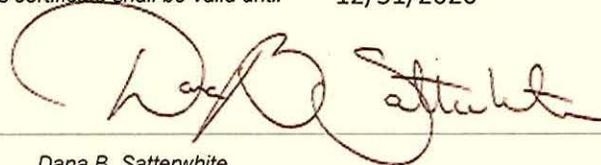
Is hereby certified to perform environmental analysis as listed on Attachment I and report monitoring data to DEQ for compliance with NPDES effluent, surface water, groundwater, and pretreatment regulations.

By reference 15A NCAC 2H .0800 is made a part of this certificate.

This certificate does not guarantee validity of data generated, but indicates the methodology, equipment, quality control procedures, records, and proficiency of the laboratory have been examined and found to be acceptable.

This certificate shall be valid until 12/31/2020

Certificate No. 521



Dana B. Satterwhite

North Carolina Wastewater/Groundwater Laboratory Certification

Certified Parameters Listing

Lab Name: Eurofins Lancaster Laboratories Environmental LLC
Address: 2425 New Holland Pike
Lancaster, PA 17601-

Certificate Number: 521
Effective Date: 1/1/2020
Expiration Date: 12/31/2020
Date of Last Amendment: 7/17/2020

The above named laboratory, having duly met the requirements of 15A NCAC 2H.0800, is hereby certified for the measurement of the parameters listed below.

CERTIFIED PARAMETERS

INORGANIC

ALKALINITY

SM 2320 B-2011 (Aqueous)

BOD

SM 5210 B-2011 (Aqueous)

CBOD

SM 5210 B-2011 (Aqueous)

CHLORIDE

SM 4500 Cl⁻ C-2011 (Aqueous)

SW-846 9056 A (Aqueous)

SW-846 9056 A (Non-Aqueous)

EPA 300.0, Rev. 2.1, 1993 (Aqueous)

EPA 300.0, Rev. 2.1, 1993 (Non-Aqueous)

COD

EPA 410.4, Rev. 2.0, 1993 (Aqueous)

COLOR, PC

SM 2120 B-2011 (PtCo) (Aqueous)

CONDUCTIVITY

SM 2510 B-2011 (Aqueous)

CYANIDE

ASTM D 7511-12 (Total) (Aqueous)

EPA 335.4, Rev. 1.0, 1993 (Total) (Aqueous)

SW-846 9012 B (Total) (Aqueous)

SW-846 9012 B (Total) (Non-Aqueous)

FLASH POINT

SW-846 1010 A (Pensky-Martens) (Aqueous)

FLUORIDE

SM 4500 F⁻ C-2011 (Aqueous)

EPA 300.0, Rev. 2.1, 1993 (Aqueous)

EPA 300.0, Rev. 2.1, 1993 (Non-Aqueous)

SW-846 9056 A (Aqueous)

SW-846 9056 A (Non-Aqueous)

HARDNESS TOTAL - METALS

SM 2340 B-2011 (Ca EPA 200.7, Rev. 4.4, 1994 + Mg EPA 200.7, Rev. 4.4, 1994) (Aqueous)

HARDNESS TOTAL - WET CHEM

SM 2340 C-2011 (Aqueous)

INORGANIC PHENOLS

EPA 420.4, Rev. 1.0, 1993 (Aqueous)

MBAS

SM 5540 C-2011 (Aqueous)

NITROGEN, AMMONIA

SM 4500 NH₃ D-2011 (Aqueous)

SM 4500 NH₃ C-2011 (Aqueous)

NITROGEN, NITRATE

EPA 300.0, Rev. 2.1, 1993 (Aqueous)

EPA 300.0, Rev. 2.1, 1993 (Non-Aqueous)

SW-846 9056 A (Aqueous)

SW-846 9056 A (Non-Aqueous)

NITROGEN, NITRITE

EPA 353.2, Rev. 2.0, 1993 (Aqueous)

EPA 300.0, Rev. 2.1, 1993 (Aqueous)

EPA 300.0, Rev. 2.1, 1993 (Non-Aqueous)

SW-846 9056 A (Aqueous)

SW-846 9056 A (Non-Aqueous)

NITROGEN, NO₃ + NO₂

EPA 353.2, Rev. 2.0, 1993 (Aqueous)

EPA 300.0, Rev. 2.1, 1993 (Aqueous)

EPA 300.0, Rev. 2.1, 1993 (Non-Aqueous)

SW-846 9056 A (Aqueous)

SW-846 9056 A (Non-Aqueous)

NITROGEN, TOTAL KJELDAHL

EPA 351.2, Rev. 2.0, 1993 (Aqueous)

OIL & GREASE

EPA 1664 Rev. B (Aqueous)

SW-846 9071 B (Non-Aqueous)

ORGANIC CARBON, TOTAL

SM 5310 B-2011 (Combustion) (Aqueous)

SM 5310 C-2011 (Heated Persulfate) (Aqueous)

North Carolina Wastewater/Groundwater Laboratory Certification

Certified Parameters Listing

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 Lancaster, PA 17601-

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CERTIFIED PARAMETERS

PAINT FILTER LIQUIDS

SW-846 9095B

pH

SM 4500 H+B-2011 (Aqueous)

SW-846 9045 D (Non-Aqueous)

PHOSPHATE, ORTHO

SM 4500 P E-2011 (Aqueous)

EPA 365.3, 1978 (Aqueous)

PHOSPHORUS, TOTAL

SM 4500 P F-2011 (Aqueous)

EPA 365.1, Rev. 2.0, 1993 (Aqueous)

RESIDUE, DISSOLVED 180 C

SM 2540 C-2011 (Aqueous)

RESIDUE, SETTLEABLE

SM 2540 F-2011 (Aqueous)

RESIDUE, SUSPENDED

SM 2540 D-2011 (Aqueous)

RESIDUE, TOTAL

SM 2540 B-2011 (Aqueous)

SULFATE

EPA 300.0, Rev. 2.1, 1993 (Aqueous)

EPA 300.0, Rev. 2.1, 1993 (Non-Aqueous)

SW-846 9056 A (Aqueous)

SW-846 9056 A (Non-Aqueous)

SULFIDE

SM 4500 S²⁻ D-2011 (Aqueous)

SM 4500 S²⁻ F-2011 (Aqueous)

SULFITE

SM 4500 SO₃²⁻ B-2011 (Aqueous)

TURBIDITY

EPA 180.1, Rev. 2.0, 1993 (Aqueous)

METAL

ALUMINUM

SW-846 6010 D (Aqueous)

SW-846 6010 D (Non-Aqueous)

EPA 200.8, Rev. 5.4, 1994 (Aqueous)

SW-846 6020 B (Aqueous)

SW-846 6020 B (Non-Aqueous)

ANTIMONY

EPA 200.7, Rev. 4.4, 1994 (Aqueous)

SW-846 6010 D (Aqueous)

SW-846 6010 D (Non-Aqueous)

EPA 200.8, Rev. 5.4, 1994 (Aqueous)

SW-846 6020 B (Aqueous)

SW-846 6020 B (Non-Aqueous)

ARSENIC

EPA 200.7, Rev. 4.4, 1994 (Aqueous)

SW-846 6010 D (Aqueous)

SW-846 6010 D (Non-Aqueous)

EPA 200.8, Rev. 5.4, 1994 (Aqueous)

SW-846 6020 B (Aqueous)

SW-846 6020 B (Non-Aqueous)

BARIUM

EPA 200.7, Rev. 4.4, 1994 (Aqueous)

SW-846 6010 D (Aqueous)

SW-846 6010 D (Non-Aqueous)

EPA 200.8, Rev. 5.4, 1994 (Aqueous)

SW-846 6020 B (Aqueous)

SW-846 6020 B (Non-Aqueous)

BERYLLIUM

EPA 200.7, Rev. 4.4, 1994 (Aqueous)

SW-846 6010 D (Aqueous)

SW-846 6010 D (Non-Aqueous)

EPA 200.8, Rev. 5.4, 1994 (Aqueous)

SW-846 6020 B (Aqueous)

SW-846 6020 B (Non-Aqueous)

BORON

EPA 200.7, Rev. 4.4, 1994 (Aqueous)

North Carolina Wastewater/Groundwater Laboratory Certification

Certified Parameters Listing

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Lancaster, PA 17601-

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CERTIFIED PARAMETERS

SW-846 6010 D (Aqueous)
SW-846 6010 D (Non-Aqueous)
EPA 200.8, Rev. 5.4, 1994 (Aqueous)
SW-846 6020 B (Non-Aqueous)

CADMIUM

EPA 200.7, Rev. 4.4, 1994 (Aqueous)
SW-846 6010 D (Aqueous)
SW-846 6010 D (Non-Aqueous)
EPA 200.8, Rev. 5.4, 1994 (Aqueous)
SW-846 6020 B (Aqueous)
SW-846 6020 B (Non-Aqueous)

CALCIUM

EPA 200.7, Rev. 4.4, 1994 (Aqueous)
SW-846 6010 D (Aqueous)
SW-846 6010 D (Non-Aqueous)
EPA 200.8, Rev. 5.4, 1994 (Aqueous)
SW-846 6020 B (Aqueous)
SW-846 6020 B (Non-Aqueous)

CHROMIUM HEXAVALENT

SM 3500-Cr-B-2011 (Aqueous)
SM 3500-Cr-B-2011 (Non-Aqueous)
SW-846 7196 A (Aqueous)
SW-846 7196 A (Non-Aqueous)
EPA 218.6, Rev. 3.3, 1994 (Aqueous)
SW-846 7199 (Aqueous)
SW-846 7199 (Non-Aqueous)

CHROMIUM TOTAL

EPA 200.7, Rev. 4.4, 1994 (Aqueous)
SW-846 6010 D (Aqueous)
SW-846 6010 D (Non-Aqueous)
EPA 200.8, Rev. 5.4, 1994 (Aqueous)
SW-846 6020 B (Aqueous)
SW-846 6020 B (Non-Aqueous)

COBALT

EPA 200.7, Rev. 4.4, 1994 (Aqueous)
SW-846 6010 D (Aqueous)
SW-846 6010 D (Non-Aqueous)
EPA 200.8, Rev. 5.4, 1994 (Aqueous)
SW-846 6020 B (Aqueous)
SW-846 6020 B (Non-Aqueous)

COPPER

EPA 200.7, Rev. 4.4, 1994 (Aqueous)
SW-846 6010 D (Aqueous)
SW-846 6010 D (Non-Aqueous)
EPA 200.8, Rev. 5.4, 1994 (Aqueous)
SW-846 6020 B (Aqueous)
SW-846 6020 B (Non-Aqueous)

IRON

EPA 200.7, Rev. 4.4, 1994 (Aqueous)
SW-846 6010 D (Aqueous)
SW-846 6010 D (Non-Aqueous)
EPA 200.8, Rev. 5.4, 1994 (Aqueous)
SW-846 6020 B (Aqueous)
SW-846 6020 B (Non-Aqueous)

LEAD

EPA 200.7, Rev. 4.4, 1994 (Aqueous)
SW-846 6010 D (Aqueous)
SW-846 6010 D (Non-Aqueous)
EPA 200.8, Rev. 5.4, 1994 (Aqueous)
SW-846 6020 B (Aqueous)
SW-846 6020 B (Non-Aqueous)

LITHIUM

EPA 200.7, Rev. 4.4, 1994 (Aqueous)
SW-846 6010 D (Aqueous)
SW-846 6010 D (Non-Aqueous)

MAGNESIUM

EPA 200.7, Rev. 4.4, 1994 (Aqueous)
SW-846 6010 D (Aqueous)

North Carolina Wastewater/Groundwater Laboratory Certification

Certified Parameters Listing

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CERTIFIED PARAMETERS

SW-846 6010 D (Non-Aqueous)
EPA 200.8, Rev. 5.4, 1994 (Aqueous)
SW-846 6020 B (Aqueous)
SW-846 6020 B (Non-Aqueous)

MANGANESE

EPA 200.7, Rev. 4.4, 1994 (Aqueous)
SW-846 6010 D (Aqueous)
SW-846 6010 D (Non-Aqueous)
EPA 200.8, Rev. 5.4, 1994 (Aqueous)
SW-846 6020 B (Aqueous)
SW-846 6020 B (Non-Aqueous)

MERCURY

EPA 245.1, Rev. 3.0, 1994 (Aqueous)
SW-846 7470 A (Aqueous)
SW-846 7470 A (Non-Aqueous)
SW-846 7471 B (Non-Aqueous)

MOLYBDENUM

EPA 200.7, Rev. 4.4, 1994 (Aqueous)
SW-846 6010 D (Aqueous)
SW-846 6010 D (Non-Aqueous)
EPA 200.8, Rev. 5.4, 1994 (Aqueous)
SW-846 6020 B (Aqueous)
SW-846 6020 B (Non-Aqueous)

NICKEL

EPA 200.7, Rev. 4.4, 1994 (Aqueous)
SW-846 6010 D (Aqueous)
SW-846 6010 D (Non-Aqueous)
EPA 200.8, Rev. 5.4, 1994 (Aqueous)
SW-846 6020 B (Aqueous)
SW-846 6020 B (Non-Aqueous)

POTASSIUM

EPA 200.7, Rev. 4.4, 1994 (Aqueous)
SW-846 6010 D (Aqueous)
SW-846 6010 D (Non-Aqueous)

EPA 200.8, Rev. 5.4, 1994 (Aqueous)
SW-846 6020 B (Aqueous)
SW-846 6020 B (Non-Aqueous)

SELENIUM

EPA 200.7, Rev. 4.4, 1994 (Aqueous)
SW-846 6010 D (Aqueous)
SW-846 6010 D (Non-Aqueous)
EPA 200.8, Rev. 5.4, 1994 (Aqueous)
SW-846 6020 B (Aqueous)
SW-846 6020 B (Non-Aqueous)

SILVER

EPA 200.7, Rev. 4.4, 1994 (Aqueous)
SW-846 6010 D (Aqueous)
SW-846 6010 D (Non-Aqueous)
SW-846 6020 B (Aqueous)
SW-846 6020 B (Non-Aqueous)

SODIUM

EPA 200.7, Rev. 4.4, 1994 (Aqueous)
SW-846 6010 D (Aqueous)
SW-846 6010 D (Non-Aqueous)
EPA 200.8, Rev. 5.4, 1994 (Aqueous)
SW-846 6020 B (Aqueous)
SW-846 6020 B (Non-Aqueous)

STRONTIUM

EPA 200.7, Rev. 4.4, 1994 (Aqueous)
SW-846 6010 D (Aqueous)
SW-846 6010 D (Non-Aqueous)
SW-846 6020 B (Aqueous)
SW-846 6020 B (Non-Aqueous)

THALLIUM

EPA 200.7, Rev. 4.4, 1994 (Aqueous)
SW-846 6010 D (Aqueous)
SW-846 6010 D (Non-Aqueous)
EPA 200.8, Rev. 5.4, 1994 (Aqueous)

North Carolina Wastewater/Groundwater Laboratory Certification

Certified Parameters Listing

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CERTIFIED PARAMETERS

SW-846 6020 B (Aqueous)	EPA 625.1 (Aqueous)
SW-846 6020 B (Non-Aqueous)	SW-846 8270 E (Aqueous)
TIN	SW-846 8270 E (Non-Aqueous)
EPA 200.7, Rev. 4.4, 1994 (Aqueous)	CHLORINATED ACID HERBICIDES
SW-846 6010 D (Aqueous)	SW-846 8151 A (Aqueous)
SW-846 6010 D (Non-Aqueous)	SW-846 8151 A (Non-Aqueous)
EPA 200.8, Rev. 5.4, 1994 (Aqueous)	EXTRACTABLE PETROLEUM HYDROCARBONS
SW-846 6020 B (Aqueous)	MADEP, December 2019, Rev. 2.1 (Aqueous)
SW-846 6020 B (Non-Aqueous)	MADEP, December 2019, Rev. 2.1 (Non-Aqueous)
TITANIUM	NONHALOGENATED VOLATILE, ORGANICS
EPA 200.7, Rev. 4.4, 1994 (Aqueous)	SW-846 8015 C (Aqueous)
SW-846 6010 D (Aqueous)	SW-846 8015 C (Non-Aqueous)
SW-846 6010 D (Non-Aqueous)	PESTICIDES, ORGANOCHLORINE
EPA 200.8, Rev. 5.4, 1994 (Aqueous)	EPA 608.3 (Aqueous)
SW-846 6020 B (Aqueous)	SW-846 8081 B (Aqueous)
SW-846 6020 B (Non-Aqueous)	SW-846 8081 B (Non-Aqueous)
VANADIUM	POLYCHLORINATED BIPHENYLS (PCBs)
EPA 200.7, Rev. 4.4, 1994 (Aqueous)	EPA 608.3 (Aqueous)
SW-846 6010 D (Aqueous)	SW-846 8082 A (Aqueous)
SW-846 6010 D (Non-Aqueous)	SW-846 8082 A (Non-Aqueous)
EPA 200.8, Rev. 5.4, 1994 (Aqueous)	SW-846 8082 A (Oil)
SW-846 6020 B (Aqueous)	PURGEABLE, ORGANICS
SW-846 6020 B (Non-Aqueous)	EPA 624.1 (Aqueous)
ZINC	SM 6200 B-2011 (Aqueous)
EPA 200.7, Rev. 4.4, 1994 (Aqueous)	SW-846 8260 D (Aqueous)
SW-846 6010 D (Aqueous)	SW-846 8260 D (Non-Aqueous)
SW-846 6010 D (Non-Aqueous)	TPH DIESEL RANGE, ORGANICS
EPA 200.8, Rev. 5.4, 1994 (Aqueous)	SW-846 8015 C (Aqueous)
SW-846 6020 B (Aqueous)	SW-846 8015 C (Non-Aqueous)
SW-846 6020 B (Non-Aqueous)	TPH GASOLINE RANGE, ORGANICS
ORGANIC	SW-846 8015 C (Aqueous)
1,2, DIBROMOETHANE (EDB)	SW-846 8015 C (Non-Aqueous)
SW-846 8011 (Includes DBCP) (Aqueous)	VOLATILE PETROLEUM HYDROCARBONS
BASE NEUTRAL/ACID, ORGANICS	MADEP, Feb 2018, Rev. 2.1 (Aqueous)