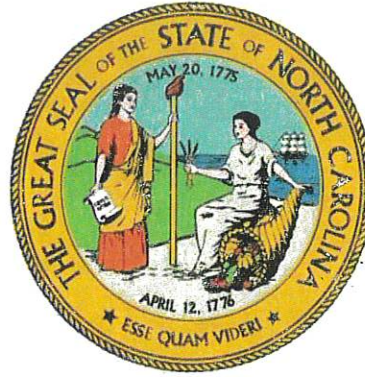


STATE OF NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY

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:



2025

Element One Inc.

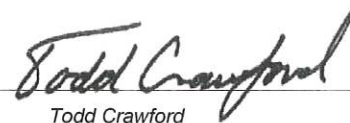
Is hereby certified to perform environmental analysis as listed on the Laboratory's Certified Parameter List and report monitoring data to DEQ for compliance with NPDES effluent, surface water, groundwater, soil and pretreatment regulations.

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.

12/31/2025

Certificate No. 604


Todd Crawford

North Carolina Wastewater/Groundwater Laboratory Certification

Certified Parameters Listing

Lab Name: Element One Inc.
Address: 6319-D Carolina Beach Rd
Wilmington, NC 28412-

Certificate Number: 604
Effective Date: 1/1/2025
Expiration Date: 12/31/2025
Date of Last Amendment: 9/25/2024

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	HARDNESS TOTAL - METALS
ACIDITY	SM 2340 B-2021 (Ca EPA 200.8, Rev. 5.4, 1994 + Mg EPA 200.8, Rev. 5.4, 1994) (Aqueous)
SM 2310 B-2020(Aqueous)	HARDNESS TOTAL - WET CHEM
ALKALINITY	SM 2340 C-2021 (Aqueous)
SM 2320 B-2021 (Aqueous)	IGNITABILITY
BACTERIA - COLIFORM FECAL	SW-846 1030 (Non-Aqueous)
IDEXX Collert @18 (MPN) (Aqueous)	MBAS
BOD	SM 5540 C-2021 (Aqueous)
SM 5210 B-2016 (Aqueous)	NITROGEN, AMMONIA
CBOD	SM 4500-NH3 D-2021 (Aqueous)
SM 5210 B-2016 (Aqueous)	NITROGEN, NITRATE
CHLORIDE	EPA 300.0, Rev. 2.1, 1993 (Aqueous)
SM 4500-Cl B-2021 (Aqueous)	EPA 300.0, Rev. 2.1, 1993 (Non-Aqueous)
EPA 300.0, Rev. 2.1, 1993 (Aqueous)	NITROGEN, NITRITE
EPA 300.0, Rev. 2.1, 1993 (Non-Aqueous)	SM 4500-NO ₂ ⁻ B-2021 (Aqueous)
CHLORINE, TOTAL RESIDUAL	EPA 300.0, Rev. 2.1, 1993 (Aqueous)
Hach 8167 HR (Aqueous)	EPA 300.0, Rev. 2.1, 1993 (Non-Aqueous)
COD	NITROGEN, NO₃ + NO₂
Hach 8000 (Aqueous)	SM 4500-NO ₃ ⁻ E-2019 (Aqueous)
COLOR, PC	EPA 300.0, Rev. 2.1, 1993 (Aqueous)
SM 2120 B-2021 (PtCo) (Aqueous)	EPA 300.0, Rev. 2.1, 1993 (Non-Aqueous)
CONDUCTIVITY	NITROGEN, TOTAL KJELDAHL
SM 2510 B-2021 (Aqueous)	SM 4500-Norg C-2021 (SM 4500-NH3 D-2021) (Aqueous)
CYANIDE	SM 4500-Norg C-2021 (SM 4500-NH3 D-2021) (Non-Aqueous)
SW-846 9014 (Total) (Colorimetric) (Aqueous)	ORGANIC CARBON, TOTAL
SW-846 9014 (Total) (Colorimetric) (Non-Aqueous)	SM 5310 B-2014 (Aqueous)
SM 4500-CN ⁻ E-2021 (Total) (Aqueous)	SW-846 9060 A (Aqueous)
DISSOLVED OXYGEN	pH
SM 4500-O C-2021 (Aqueous)	SM 4500-H+B-2021 (Aqueous)
SM 4500-O G-2021 (Aqueous)	SW-846 9040 C (Aqueous)
FLUORIDE	SW-846 9045 D (Non-Aqueous)
SM 4500-F ⁻ C-2021 (Aqueous)	PHOSPHATE, ORTHO
EPA 300.0, Rev. 2.1, 1993 (Aqueous)	SM 4500-P E-2021 (Aqueous)
EPA 300.0, Rev. 2.1, 1993 (Non-Aqueous)	EPA 300.0, Rev. 2.1, 1993 (Aqueous)

This certification requires maintenance of an acceptable quality assurance program, use of approved methodology, and satisfactory performance on evaluation samples. Laboratories are subject to civil penalties and/or decertification for infractions as set forth in 15A NCAC 2H.0807.

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CERTIFIED PARAMETERS

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

PHOSPHORUS, TOTAL

SM 4500-P E-2021 (Aqueous)

RESIDUE, DISSOLVED 180 C

SM 2540 C-2020 (Aqueous)

RESIDUE, SETTLEABLE

SM 2540 F-2020 (Aqueous)

RESIDUE, SUSPENDED

SM 2540 D-2020 (Aqueous)

RESIDUE, TOTAL

SM 2540 B-2020 (Aqueous)

SILICA - NUTRIENTS

SM 4500-SiO₂ C-2021 (Aqueous)

SULFATE

SM 4500-SO₄²⁻ D-2021 (Aqueous)

EPA 300.0, Rev. 2.1, 1993 (Aqueous)

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

SULFIDE

Hach 8131 (Aqueous)

SM 4500-S²⁻ D-2021 (Aqueous)

SW-846 9034 (Aqueous)

TEMPERATURE

SM 2550 B-2010 (Aqueous)

TURBIDITY

SM 2130 B-2020 (Aqueous)

METAL

ALUMINUM

EPA 200.8, Rev. 5.4, 1994 (Aqueous)

EPA 200.8, Rev. 5.4, 1994 (Non-Aqueous)

SW-846 6020 B (Aqueous)

SW-846 6020 B (Non-Aqueous)

ANTIMONY

EPA 200.8, Rev. 5.4, 1994 (Aqueous)

EPA 200.8, Rev. 5.4, 1994 (Non-Aqueous)

SW-846 6020 B (Aqueous)

SW-846 6020 B (Non-Aqueous)

ARSENIC

EPA 200.8, Rev. 5.4, 1994 (Aqueous)

EPA 200.8, Rev. 5.4, 1994 (Non-Aqueous)

SW-846 6020 B (Aqueous)

SW-846 6020 B (Non-Aqueous)

BARIUM

EPA 200.8, Rev. 5.4, 1994 (Aqueous)

EPA 200.8, Rev. 5.4, 1994 (Non-Aqueous)

SW-846 6020 B (Aqueous)

SW-846 6020 B (Non-Aqueous)

BERYLLIUM

EPA 200.8, Rev. 5.4, 1994 (Aqueous)

EPA 200.8, Rev. 5.4, 1994 (Non-Aqueous)

SW-846 6020 B (Aqueous)

SW-846 6020 B (Non-Aqueous)

BORON

EPA 200.8, Rev. 5.4, 1994 (Aqueous)

EPA 200.8, Rev. 5.4, 1994 (Non-Aqueous)

SW-846 6020 B (Aqueous)

SW-846 6020 B (Non-Aqueous)

CADMIUM

EPA 200.8, Rev. 5.4, 1994 (Aqueous)

EPA 200.8, Rev. 5.4, 1994 (Non-Aqueous)

SW-846 6020 B (Aqueous)

SW-846 6020 B (Non-Aqueous)

CALCIUM

EPA 200.8, Rev. 5.4, 1994 (Aqueous)

EPA 200.8, Rev. 5.4, 1994 (Non-Aqueous)

SW-846 6020 B (Aqueous)

SW-846 6020 B (Non-Aqueous)

CHROMIUM HEXVALENT

SM 3500-Cr B-2020 (Aqueous)

North Carolina Wastewater/Groundwater Laboratory Certification

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CERTIFIED PARAMETERS

EPA 218.6, Rev. 3.3, 1994 (Aqueous)

SW-846 7199 (Aqueous)

SW-846 7199 (Non-Aqueous)

CHROMIUM TOTAL

EPA 200.8, Rev. 5.4, 1994 (Aqueous)

EPA 200.8, Rev. 5.4, 1994 (Non-Aqueous)

SW-846 6020 B (Aqueous)

SW-846 6020 B (Non-Aqueous)

COBALT

EPA 200.8, Rev. 5.4, 1994 (Aqueous)

EPA 200.8, Rev. 5.4, 1994 (Non-Aqueous)

SW-846 6020 B (Aqueous)

SW-846 6020 B (Non-Aqueous)

COPPER

EPA 200.8, Rev. 5.4, 1994 (Aqueous)

EPA 200.8, Rev. 5.4, 1994 (Non-Aqueous)

SW-846 6020 B (Aqueous)

SW-846 6020 B (Non-Aqueous)

IRON

EPA 200.8, Rev. 5.4, 1994 (Aqueous)

EPA 200.8, Rev. 5.4, 1994 (Non-Aqueous)

SW-846 6020 B (Aqueous)

SW-846 6020 B (Non-Aqueous)

LEAD

EPA 200.8, Rev. 5.4, 1994 (Aqueous)

EPA 200.8, Rev. 5.4, 1994 (Non-Aqueous)

SW-846 6020 B (Aqueous)

SW-846 6020 B (Non-Aqueous)

MAGNESIUM

EPA 200.8, Rev. 5.4, 1994 (Aqueous)

EPA 200.8, Rev. 5.4, 1994 (Non-Aqueous)

SW-846 6020 B (Aqueous)

SW-846 6020 B (Non-Aqueous)

MANGANESE

EPA 200.8, Rev. 5.4, 1994 (Aqueous)

EPA 200.8, Rev. 5.4, 1994 (Non-Aqueous)

SW-846 6020 B (Aqueous)

SW-846 6020 B (Non-Aqueous)

MERCURY

EPA 245.1, Rev. 3.0, 1994 (Aqueous)

SW-846 7471 B (Non-Aqueous)

MOLYBDENUM

EPA 200.8, Rev. 5.4, 1994 (Aqueous)

EPA 200.8, Rev. 5.4, 1994 (Non-Aqueous)

SW-846 6020 B (Aqueous)

SW-846 6020 B (Non-Aqueous)

NICKEL

EPA 200.8, Rev. 5.4, 1994 (Aqueous)

EPA 200.8, Rev. 5.4, 1994 (Non-Aqueous)

SW-846 6020 B (Aqueous)

SW-846 6020 B (Non-Aqueous)

POTASSIUM

EPA 200.8, Rev. 5.4, 1994 (Aqueous)

EPA 200.8, Rev. 5.4, 1994 (Non-Aqueous)

SW-846 6020 B (Aqueous)

SW-846 6020 B (Non-Aqueous)

SELENIUM

EPA 200.8, Rev. 5.4, 1994 (Aqueous)

EPA 200.8, Rev. 5.4, 1994 (Non-Aqueous)

SW-846 6020 B (Aqueous)

SW-846 6020 B (Non-Aqueous)

SILVER

EPA 200.8, Rev. 5.4, 1994 (Aqueous)

EPA 200.8, Rev. 5.4, 1994 (Non-Aqueous)

SW-846 6020 B (Aqueous)

SW-846 6020 B (Non-Aqueous)

SODIUM

EPA 200.8, Rev. 5.4, 1994 (Aqueous)

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CERTIFIED PARAMETERS

EPA 200.8, Rev. 5.4, 1994 (Non-Aqueous)

SW-846 6020 B (Aqueous)

SW-846 6020 B (Non-Aqueous)

STRONTIUM

SW-846 6020 B (Aqueous)

SW-846 6020 B (Non-Aqueous)

THALLIUM

EPA 200.8, Rev. 5.4, 1994 (Aqueous)

EPA 200.8, Rev. 5.4, 1994 (Non-Aqueous)

SW-846 6020 B (Aqueous)

SW-846 6020 B (Non-Aqueous)

TIN

EPA 200.8, Rev. 5.4, 1994 (Aqueous)

EPA 200.8, Rev. 5.4, 1994 (Non-Aqueous)

SW-846 6020 B (Aqueous)

SW-846 6020 B (Non-Aqueous)

TITANIUM

EPA 200.8, Rev. 5.4, 1994 (Aqueous)

EPA 200.8, Rev. 5.4, 1994 (Non-Aqueous)

SW-846 6020 B (Aqueous)

SW-846 6020 B (Non-Aqueous)

VANADIUM

EPA 200.8, Rev. 5.4, 1994 (Aqueous)

EPA 200.8, Rev. 5.4, 1994 (Non-Aqueous)

SW-846 6020 B (Aqueous)

SW-846 6020 B (Non-Aqueous)

ZINC

EPA 200.8, Rev. 5.4, 1994 (Aqueous)

EPA 200.8, Rev. 5.4, 1994 (Non-Aqueous)

SW-846 6020 B (Aqueous)

SW-846 6020 B (Non-Aqueous)