

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

BUREAU OF LABORATORIES

LABORATORY ACCREDITATION PROGRAM

Certifies That

68-03085

Element One, Inc.

6319-D Carolina Beach Road, Wilmington, NC, 28412

Having duly met the requirement of

The act of June 29, 2002 (P.L. 596, No. 90)

dealing with Environmental Laboratories Accreditation

(27 Pa. C.S. 4104-4113) and the

National Environmental Laboratory Accreditation Program Standard

is hereby approved as an

**Accredited Laboratory**

to conduct analysis within the fields of accreditations more fully described in the attached Scope of Accreditation

NELAP accreditation granted by the PA DEP to an environmental laboratory is conditioned upon continued compliance with the current edition of the NELAC Standard or TNI Standard and the following Subchapters and Sections of 25 Pa. Code Chapter 252: Subchapter A (relating to general provisions); Subchapter B (relating to application, fees and supporting documents); Subchapter E (relating to proficiency test study requirements); Subchapter F (relating to assessment requirements); Subchapter G (relating to miscellaneous provisions); Section 252.307; and Section 252.401.

Expiration Date: 02/28/2021

Certificate Number: 014

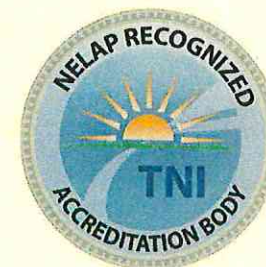


Dana T. Marshall, Acting Chief  
Laboratory Accreditation Program  
Bureau of Laboratories

Continued accreditation status depends on successful ongoing participation in the program  
Certificate not transferable Surrender upon revocation  
To be conspicuously displayed at the Laboratory  
Not valid unless accompanied by a valid Scope of Accreditation  
Shall not be used to imply endorsement by the Commonwealth of Pennsylvania  
Customers are urged to verify the laboratory's current accreditation status  
PA DEP is a NELAP recognized accreditation body



pennsylvania  
DEPARTMENT OF ENVIRONMENTAL  
PROTECTION



Attached to Certificate of Accreditation 014-001 expiration date 02/28/2021. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

Element One, Inc.  
6319-D Carolina Beach Road  
Wilmington, NC 28412  
(910) 793-0128

DEP Laboratory ID: 68-03085  
EPA Lab Code: NC01242  
TNI Code: TNI01322

**Matrix: Non-Potable Water**

| Method    | Revision | Analyte                      | Accreditation Type | Primary State | Effective Date |
|-----------|----------|------------------------------|--------------------|---------------|----------------|
| EPA 6020  | B        | Boron                        | NELAP              | NJ            | 03/26/2012     |
| EPA 6020  | B        | Cadmium                      | NELAP              | NJ            | 03/26/2012     |
| EPA 6020  | B        | Calcium                      | NELAP              | NJ            | 03/26/2012     |
| EPA 6020  | B        | Chromium                     | NELAP              | NJ            | 03/26/2012     |
| EPA 6020  | B        | Cobalt                       | NELAP              | NJ            | 03/26/2012     |
| EPA 6020  | B        | Copper                       | NELAP              | NJ            | 03/26/2012     |
| EPA 6020  | B        | Iron                         | NELAP              | NJ            | 03/26/2012     |
| EPA 6020  | B        | Lead                         | NELAP              | NJ            | 03/26/2012     |
| EPA 6020  | B        | Magnesium                    | NELAP              | NJ            | 03/26/2012     |
| EPA 6020  | B        | Manganese                    | NELAP              | NJ            | 03/26/2012     |
| EPA 6020  | B        | Molybdenum                   | NELAP              | NJ            | 03/26/2012     |
| EPA 6020  | B        | Nickel                       | NELAP              | NJ            | 03/26/2012     |
| EPA 6020  | B        | Potassium                    | NELAP              | NJ            | 03/26/2012     |
| EPA 6020  | B        | Selenium                     | NELAP              | NJ            | 03/26/2012     |
| EPA 6020  | B        | Silicon                      | NELAP              | NJ            | 03/26/2012     |
| EPA 6020  | B        | Silver                       | NELAP              | NJ            | 03/26/2012     |
| EPA 6020  | B        | Sodium                       | NELAP              | NJ            | 03/26/2012     |
| EPA 6020  | B        | Strontium                    | NELAP              | NJ            | 03/26/2012     |
| EPA 6020  | B        | Thallium                     | NELAP              | NJ            | 03/26/2012     |
| EPA 6020  | B        | Tin                          | NELAP              | NJ            | 03/26/2012     |
| EPA 6020  | B        | Titanium                     | NELAP              | NJ            | 03/26/2012     |
| EPA 6020  | B        | Vanadium                     | NELAP              | NJ            | 03/26/2012     |
| EPA 6020  | B        | Zinc                         | NELAP              | NJ            | 03/26/2012     |
| EPA 7199  |          | Chromium VI                  | NELAP              | NJ            | 03/26/2012     |
| EPA 7470  | A        | Mercury                      | NELAP              | NJ            | 02/12/2014     |
| EPA 9060  | A        | Total organic carbon (TOC)   | NELAP              | NJ            | 01/09/2019     |
| HACH 8000 |          | Chemical oxygen demand (COD) | NELAP              | NJ            | 02/27/2007     |
| SM 2540 B |          | Residue, total               | NELAP              | NJ            | 01/06/2010     |
| SM 2540 C |          | Residue, filterable (TDS)    | NELAP              | NJ            | 02/27/2007     |
| SM 2540 D |          | Residue, nonfilterable (TSS) | NELAP              | NJ            | 02/09/2016     |
| SM 2540 E |          | Residue, volatile            | NELAP              | NJ            | 02/26/2018     |
| SM 5310 B |          | Total organic carbon (TOC)   | NELAP              | NJ            | 01/06/2010     |

**Matrix: Solid and Chemical Materials**

| Method        | Revision | Analyte  | Accreditation Type | Primary State | Effective Date |
|---------------|----------|--|--------------------|---------------|----------------|
| ASTM D3987-12 |          | Shake extraction of solid waste with water             | NELAP              | NJ            | 02/18/2020     |
| EPA 1311      |          | Toxicity characteristic leaching procedure (TCLP)      | NELAP              | NJ            | 02/02/2007     |
| EPA 3050      | B        | Acid digestion of solids                               | NELAP              | NJ            | 02/12/2014     |
| EPA 3051      | A        | Microwave digestion of solids (HNO <sub>3</sub> + HCl) | NELAP              | NJ            | 02/12/2014     |
| EPA 3051      | A        | Microwave digestion of solids (HNO <sub>3</sub> only)  | NELAP              | NJ            | 02/12/2014     |

*Donna T. Maus*

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TNI Code: TNI01322

**Matrix: Non-Potable Water**

| Method    | Revision | Analyte   | Accreditation Type | Primary State | Effective Date |
|-----------|----------|---|--------------------|---------------|----------------|
| EPA 1311  |          | Toxicity characteristic leaching procedure (TCLP) | NELAP              | NJ            | 03/26/2012     |
| EPA 200.8 | 5.4      | Aluminum  | NELAP              | NJ            | 03/26/2012     |
| EPA 200.8 | 5.4      | Antimony  | NELAP              | NJ            | 03/26/2012     |
| EPA 200.8 | 5.4      | Arsenic   | NELAP              | NJ            | 03/26/2012     |
| EPA 200.8 | 5.4      | Barium  | NELAP              | NJ            | 03/26/2012     |
| EPA 200.8 | 5.4      | Beryllium   | NELAP              | NJ            | 03/26/2012     |
| EPA 200.8 | 5.4      | Cadmium   | NELAP              | NJ            | 03/26/2012     |
| EPA 200.8 | 5.4      | Calcium   | NELAP              | NJ            | 03/26/2012     |
| EPA 200.8 | 5.4      | Chromium  | NELAP              | NJ            | 03/26/2012     |
| EPA 200.8 | 5.4      | Cobalt  | NELAP              | NJ            | 03/26/2012     |
| EPA 200.8 | 5.4      | Copper  | NELAP              | NJ            | 03/26/2012     |
| EPA 200.8 | 5.4      | Iron  | NELAP              | NJ            | 03/26/2012     |
| EPA 200.8 | 5.4      | Lead  | NELAP              | NJ            | 03/26/2012     |
| EPA 200.8 | 5.4      | Magnesium   | NELAP              | NJ            | 03/26/2012     |
| EPA 200.8 | 5.4      | Manganese   | NELAP              | NJ            | 03/26/2012     |
| EPA 200.8 | 5.4      | Molybdenum  | NELAP              | NJ            | 03/26/2012     |
| EPA 200.8 | 5.4      | Nickel  | NELAP              | NJ            | 03/26/2012     |
| EPA 200.8 | 5.4      | Potassium   | NELAP              | NJ            | 03/26/2012     |
| EPA 200.8 | 5.4      | Selenium  | NELAP              | NJ            | 03/26/2012     |
| EPA 200.8 | 5.4      | Silver  | NELAP              | NJ            | 03/26/2012     |
| EPA 200.8 | 5.4      | Sodium  | NELAP              | NJ            | 03/26/2012     |
| EPA 200.8 | 5.4      | Thallium  | NELAP              | NJ            | 03/26/2012     |
| EPA 200.8 | 5.4      | Tin   | NELAP              | NJ            | 03/26/2012     |
| EPA 200.8 | 5.4      | Titanium  | NELAP              | NJ            | 03/26/2012     |
| EPA 200.8 | 5.4      | Vanadium  | NELAP              | NJ            | 03/26/2012     |
| EPA 200.8 | 5.4      | Zinc  | NELAP              | NJ            | 03/26/2012     |
| EPA 218.6 |          | Chromium VI                                       | NELAP              | NJ            | 03/26/2012     |
| EPA 245.1 | 3.0      | Mercury   | NELAP              | NJ            | 02/12/2014     |
| EPA 300.0 | 2.1      | Bromide   | NELAP              | NJ            | 03/26/2012     |
| EPA 300.0 | 2.1      | Chloride  | NELAP              | NJ            | 03/26/2012     |
| EPA 300.0 | 2.1      | Fluoride  | NELAP              | NJ            | 02/09/2016     |
| EPA 300.0 | 2.1      | Nitrate as N                                      | NELAP              | NJ            | 03/26/2012     |
| EPA 300.0 | 2.1      | Nitrite as N                                      | NELAP              | NJ            | 03/26/2012     |
| EPA 300.0 | 2.1      | Orthophosphate as P                               | NELAP              | NJ            | 03/26/2012     |
| EPA 300.0 | 2.1      | Sulfate   | NELAP              | NJ            | 03/26/2012     |
| EPA 3010  | A        | Hot plate acid digestion (HNO3 + HCl)             | NELAP              | NJ            | 02/12/2014     |
| EPA 6020  | B        | Metals by ICP/MS                                  | NELAP              | NJ            | 01/09/2019     |
| EPA 6020  | B        | Aluminum  | NELAP              | NJ            | 03/26/2012     |
| EPA 6020  | B        | Antimony  | NELAP              | NJ            | 03/26/2012     |
| EPA 6020  | B        | Arsenic   | NELAP              | NJ            | 03/26/2012     |
| EPA 6020  | B        | Barium  | NELAP              | NJ            | 03/26/2012     |
| EPA 6020  | B        | Beryllium   | NELAP              | NJ            | 03/26/2012     |

*Dom T. Mansueti*

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**Matrix: Solid and Chemical Materials**

| Method   | Revision | Analyte   | Accreditation Type | Primary State | Effective Date |
|----------|----------|---|--------------------|---------------|----------------|
| EPA 3052 |          | Microwave digestion of solids (HNO <sub>3</sub> + HF) | NELAP              | NJ            | 02/27/2007     |
| EPA 3060 | A        | Alkaline digestion of Cr(VI)                          | NELAP              | NJ            | 02/27/2007     |
| EPA 6020 | B        | Metals by ICP/MS                                      | NELAP              | NJ            | 01/09/2019     |
| EPA 6020 | B        | Aluminum  | NELAP              | NJ            | 02/27/2007     |
| EPA 6020 | B        | Antimony  | NELAP              | NJ            | 02/27/2007     |
| EPA 6020 | B        | Arsenic   | NELAP              | NJ            | 02/27/2007     |
| EPA 6020 | B        | Barium  | NELAP              | NJ            | 02/27/2007     |
| EPA 6020 | B        | Beryllium   | NELAP              | NJ            | 02/27/2007     |
| EPA 6020 | B        | Boron   | NELAP              | NJ            | 02/12/2014     |
| EPA 6020 | B        | Cadmium   | NELAP              | NJ            | 02/27/2007     |
| EPA 6020 | B        | Calcium   | NELAP              | NJ            | 02/12/2014     |
| EPA 6020 | B        | Chromium  | NELAP              | NJ            | 02/27/2007     |
| EPA 6020 | B        | Cobalt  | NELAP              | NJ            | 02/27/2007     |
| EPA 6020 | B        | Copper  | NELAP              | NJ            | 02/27/2007     |
| EPA 6020 | B        | Iron  | NELAP              | NJ            | 02/12/2014     |
| EPA 6020 | B        | Lead  | NELAP              | NJ            | 02/27/2007     |
| EPA 6020 | B        | Magnesium   | NELAP              | NJ            | 02/12/2014     |
| EPA 6020 | B        | Manganese   | NELAP              | NJ            | 02/27/2007     |
| EPA 6020 | B        | Molybdenum  | NELAP              | NJ            | 02/27/2007     |
| EPA 6020 | B        | Nickel  | NELAP              | NJ            | 02/27/2007     |
| EPA 6020 | B        | Potassium   | NELAP              | NJ            | 02/12/2014     |
| EPA 6020 | B        | Selenium  | NELAP              | NJ            | 02/27/2007     |
| EPA 6020 | B        | Silicon   | NELAP              | NJ            | 02/12/2014     |
| EPA 6020 | B        | Silver  | NELAP              | NJ            | 02/27/2007     |
| EPA 6020 | B        | Sodium  | NELAP              | NJ            | 02/12/2014     |
| EPA 6020 | B        | Strontium   | NELAP              | NJ            | 02/27/2007     |
| EPA 6020 | B        | Thallium  | NELAP              | NJ            | 02/27/2007     |
| EPA 6020 | B        | Tin   | NELAP              | NJ            | 02/27/2007     |
| EPA 6020 | B        | Titanium  | NELAP              | NJ            | 02/12/2014     |
| EPA 6020 | B        | Vanadium  | NELAP              | NJ            | 02/27/2007     |
| EPA 6020 | B        | Zinc  | NELAP              | NJ            | 02/27/2007     |
| EPA 7199 |          | Chromium VI   | NELAP              | NJ            | 02/27/2007     |
| EPA 7471 | B        | Mercury   | NELAP              | NJ            | 02/12/2014     |
| EPA 7473 |          | Mercury   | NELAP              | NJ            | 02/09/2016     |
| EPA 9045 | D        | pH  | NELAP              | NJ            | 01/09/2019     |

*Dana T. Harwood*

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