



CERTIFICATE OF ACCREDITATION

ANSI-ASQ National Accreditation Board

500 Montgomery Street, Suite 625, Alexandria, VA 22314, 877-344-3044

This is to certify that

Brooks Applied Labs, LLC
18804 North Creek Parkway, Suite 100
Bothell, WA 98011

has been assessed by ANAB
and meets the requirements of

ISO/IEC 17025:2005 and TNI STANDARD
ENVIRONMENTAL LABORATORY SECTOR,
VOLUME 1 (EL-V1-2009)

while demonstrating technical competence in the field of

TESTING

Refer to the accompanying Scope of Accreditation for information regarding the types of tests to which this accreditation applies.

ADE-1447.01

Certificate Number


ANAB Approval

Certificate Valid: 08/01/2018-03/30/2020
Version No. 003 Issued: 08/01/2018



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

**SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005 AND
TNI STANDARD ENVIRONMENTAL LABORATORY SECTOR,
VOLUME 1 (EL-V1-2009)**

Brooks Applied Labs, LLC
18804 North Creek Parkway, Ste. 100
Bothell, WA 98011
Frank McFarland
206-632-6206

TESTING

Valid to: **March 30, 2020**

Certificate Number: **ADE-1447.01**

Environmental

Non-Potable Water		
Technology	Method	Analyte
ICP-MS	BAL-5000	Aluminum
ICP-MS	BAL-5000	Arsenic
ICP-MS	BAL-5000	Antimony
ICP-MS	BAL-5000	Barium
ICP-MS	BAL-5000	Beryllium
ICP-MS	BAL-5000	Boron
ICP-MS	BAL-5000	Calcium
ICP-MS	BAL-5000	Cadmium
ICP-MS	BAL-5000	Chromium
ICP-MS	BAL-5000	Cobalt
ICP-MS	BAL-5000	Copper
ICP-MS	BAL-5000	Iron
ICP-MS	BAL-5000	Lead
ICP-MS	BAL-5000	Magnesium
ICP-MS	BAL-5000	Manganese
ICP-MS	BAL-5000	Molybdenum
ICP-MS	BAL-5000	Nickel
ICP-MS	BAL-5000	Selenium
ICP-MS	BAL-5000	Silver



Non-Potable Water		
Technology	Method	Analyte
ICP-MS	BAL-5000	Strontium
ICP-MS	BAL-5000	Thallium
ICP-MS	BAL-5000	Tin
ICP-MS	BAL-5000	Tungsten
ICP-MS	BAL-5000	Uranium
ICP-MS	BAL-5000	Vanadium
ICP-MS	BAL-5000	Zinc
ICP-MS	EPA 1638 mod	Aluminum
ICP-MS	EPA 1638 mod	Arsenic
ICP-MS	EPA 1638 mod	Antimony
ICP-MS	EPA 1638 mod	Barium
ICP-MS	EPA 1638 mod	Beryllium
ICP-MS	EPA 1638 mod	Boron
ICP-MS	EPA 1638 mod	Calcium
ICP-MS	EPA 1638 mod	Cadmium
ICP-MS	EPA 1638 mod	Chromium
ICP-MS	EPA 1638 mod	Cobalt
ICP-MS	EPA 1638 mod	Copper
ICP-MS	EPA 1638 mod	Iron
ICP-MS	EPA 1638 mod	Lead
ICP-MS	EPA 1638 mod	Magnesium
ICP-MS	EPA 1638 mod	Manganese
ICP-MS	EPA 1638 mod	Molybdenum
ICP-MS	EPA 1638 mod	Nickel
ICP-MS	EPA 1638 mod	Selenium
ICP-MS	EPA 1638 mod	Silver
ICP-MS	EPA 1638 mod	Strontium
ICP-MS	EPA 1638 mod	Thallium
ICP-MS	EPA 1638 mod	Tin
ICP-MS	EPA 1638 mod	Tungsten
ICP-MS	EPA 1638 mod	Uranium
ICP-MS	EPA 1638 mod	Vanadium
ICP-MS	EPA 1638 mod	Zinc
ICP-MS	EPA 200.8 mod	Aluminum
ICP-MS	EPA 200.8 mod	Arsenic
ICP-MS	EPA 200.8 mod	Antimony



Non-Potable Water		
Technology	Method	Analyte
ICP-MS	EPA 200.8 mod	Barium
ICP-MS	EPA 200.8 mod	Beryllium
ICP-MS	EPA 200.8 mod	Boron
ICP-MS	EPA 200.8 mod	Calcium
ICP-MS	EPA 200.8 mod	Cadmium
ICP-MS	EPA 200.8 mod	Chromium
ICP-MS	EPA 200.8 mod	Cobalt
ICP-MS	EPA 200.8 mod	Copper
ICP-MS	EPA 200.8 mod	Iron
ICP-MS	EPA 200.8 mod	Lead
ICP-MS	EPA 200.8 mod	Magnesium
ICP-MS	EPA 200.8 mod	Manganese
ICP-MS	EPA 200.8 mod	Molybdenum
ICP-MS	EPA 200.8 mod	Nickel
ICP-MS	EPA 200.8 mod	Selenium
ICP-MS	EPA 200.8 mod	Silver
ICP-MS	EPA 200.8 mod	Strontium
ICP-MS	EPA 200.8 mod	Thallium
ICP-MS	EPA 200.8 mod	Tin
ICP-MS	EPA 200.8 mod	Tungsten
ICP-MS	EPA 200.8 mod	Uranium
ICP-MS	EPA 200.8 mod	Vanadium
ICP-MS	EPA 200.8 mod	Zinc
ICP-MS	EPA 6020 mod	Aluminum
ICP-MS	EPA 6020 mod	Arsenic
ICP-MS	EPA 6020 mod	Antimony
ICP-MS	EPA 6020 mod	Barium
ICP-MS	EPA 6020 mod	Beryllium
ICP-MS	EPA 6020 mod	Boron
ICP-MS	EPA 6020 mod	Calcium
ICP-MS	EPA 6020 mod	Cadmium
ICP-MS	EPA 6020 mod	Chromium
ICP-MS	EPA 6020 mod	Cobalt
ICP-MS	EPA 6020 mod	Copper
ICP-MS	EPA 6020 mod	Iron
ICP-MS	EPA 6020 mod	Lead



Non-Potable Water		
Technology	Method	Analyte
ICP-MS	EPA 6020 mod	Magnesium
ICP-MS	EPA 6020 mod	Manganese
ICP-MS	EPA 6020 mod	Molybdenum
ICP-MS	EPA 6020 mod	Nickel
ICP-MS	EPA 6020 mod	Selenium
ICP-MS	EPA 6020 mod	Silver
ICP-MS	EPA 6020 mod	Strontium
ICP-MS	EPA 6020 mod	Thallium
ICP-MS	EPA 6020 mod	Tin
ICP-MS	EPA 6020 mod	Tungsten
ICP-MS	EPA 6020 mod	Uranium
ICP-MS	EPA 6020 mod	Vanadium
ICP-MS	EPA 6020 mod	Zinc
IC-ICP-MS	BAL-4100	Trivalent Arsenic
IC-ICP-MS	BAL-4100	Pentavalent Arsenic
IC-ICP-MS	BAL-4100	Monomethylarsonic acid (MMA)
IC-ICP-MS	BAL-4100	Dimethylarsinic acid (DMA)
IC-ICP-MS	BAL-4200	Selenite Se(IV)
IC-ICP-MS	BAL-4200	Selenate Se(VI)
IC-ICP-MS	BAL-4200	Selenocynate SeCN
IC-ICP-MS	BAL-4201	Selenite Se(IV)
IC-ICP-MS	BAL-4201	Selenate Se(VI)
IC-ICP-MS	BAL-4201	Selenocynate SeCN
IC-ICP-MS	BAL-4201	Selenomethionine SeMet
IC-ICP-MS	BAL-4300	Hexavalent Chromium Cr(VI)
HGAAS	EPA 1632A	Inorganic Arsenic
HGAAS	EPA 1632A	Trivalent Arsenic
HGAAS	BAL-3300	Inorganic Arsenic
HGAAS	BAL-3300	Trivalent Arsenic
Difference	EPA 1632A	Pentavalent Arsenic
Difference	BAL-3300	Pentavalent Arsenic
CVAFS	EPA 1631E	Low-Level Mercury
CVAFS	BAL-3100	Low-Level Mercury
CVAFS	EPA 1630	Methyl Mercury
CVAFS	BAL-3200	Methyl Mercury
Colorimetric	SM 3500-Fe B mod	Total Iron Fe



Non-Potable Water		
Technology	Method	Analyte
Colorimetric	SM 3500-Fe B mod	Ferrous Iron Fe(II)
Colorimetric	BAL-4500	Total Iron Fe
Colorimetric	BAL-4500	Ferrous Iron Fe(II)
By Calculation	SM 2340 B (20 th Ed.)	Hardness
Gravimetric	SM 2540 D (20 th Ed.)	Total Suspended Solids
Gravimetric	EPA 160.2	Total Suspended Solids

Seawater		
Technology	Method	Analyte
ICP-MS	EPA 1640 mod	Arsenic
ICP-MS	EPA 1640 mod	Beryllium
ICP-MS	EPA 1640 mod	Cadmium
ICP-MS	EPA 1640 mod	Chromium
ICP-MS	EPA 1640 mod	Cobalt
ICP-MS	EPA 1640 mod	Copper
ICP-MS	EPA 1640 mod	Iron
ICP-MS	EPA 1640 mod	Lead
ICP-MS	EPA 1640 mod	Manganese
ICP-MS	EPA 1640 mod	Nickel
ICP-MS	EPA 1640 mod	Selenium
ICP-MS	EPA 1640 mod	Silver
ICP-MS	EPA 1640 mod	Thallium
ICP-MS	EPA 1640 mod	Vanadium
ICP-MS	EPA 1640 mod	Zinc

Solid and Chemical Materials		
Technology	Method	Analyte
ICP-MS	BAL-5000	Aluminum
ICP-MS	BAL-5000	Arsenic
ICP-MS	BAL-5000	Antimony
ICP-MS	BAL-5000	Barium
ICP-MS	BAL-5000	Beryllium

Solid and Chemical Materials		
Technology	Method	Analyte
ICP-MS	BAL-5000	Boron
ICP-MS	BAL-5000	Calcium
ICP-MS	BAL-5000	Cadmium
ICP-MS	BAL-5000	Chromium
ICP-MS	BAL-5000	Cobalt
ICP-MS	BAL-5000	Copper
ICP-MS	BAL-5000	Iron
ICP-MS	BAL-5000	Lead
ICP-MS	BAL-5000	Magnesium
ICP-MS	BAL-5000	Manganese
ICP-MS	BAL-5000	Molybdenum
ICP-MS	BAL-5000	Nickel
ICP-MS	BAL-5000	Potassium
ICP-MS	BAL-5000	Selenium
ICP-MS	BAL-5000	Silver
ICP-MS	BAL-5000	Sodium
ICP-MS	BAL-5000	Strontium
ICP-MS	BAL-5000	Thallium
ICP-MS	BAL-5000	Tin
ICP-MS	BAL-5000	Vanadium
ICP-MS	BAL-5000	Zinc
ICP-MS	EPA 1638 mod	Aluminum
ICP-MS	EPA 1638 mod	Arsenic
ICP-MS	EPA 1638 mod	Antimony
ICP-MS	EPA 1638 mod	Barium
ICP-MS	EPA 1638 mod	Beryllium
ICP-MS	EPA 1638 mod	Boron
ICP-MS	EPA 1638 mod	Calcium
ICP-MS	EPA 1638 mod	Cadmium
ICP-MS	EPA 1638 mod	Chromium
ICP-MS	EPA 1638 mod	Cobalt
ICP-MS	EPA 1638 mod	Copper
ICP-MS	EPA 1638 mod	Iron
ICP-MS	EPA 1638 mod	Lead
ICP-MS	EPA 1638 mod	Magnesium
ICP-MS	EPA 1638 mod	Manganese

Solid and Chemical Materials		
Technology	Method	Analyte
ICP-MS	EPA 1638 mod	Molybdenum
ICP-MS	EPA 1638 mod	Nickel
ICP-MS	EPA 1638 mod	Potassium
ICP-MS	EPA 1638 mod	Selenium
ICP-MS	EPA 1638 mod	Silver
ICP-MS	EPA 1638 mod	Sodium
ICP-MS	EPA 1638 mod	Strontium
ICP-MS	EPA 1638 mod	Thallium
ICP-MS	EPA 1638 mod	Tin
ICP-MS	EPA 1638 mod	Vanadium
ICP-MS	EPA 1638 mod	Zinc
ICP-MS	EPA 200.8 mod	Aluminum
ICP-MS	EPA 200.8 mod	Arsenic
ICP-MS	EPA 200.8 mod	Antimony
ICP-MS	EPA 200.8 mod	Barium
ICP-MS	EPA 200.8 mod	Beryllium
ICP-MS	EPA 200.8 mod	Boron
ICP-MS	EPA 200.8 mod	Calcium
ICP-MS	EPA 200.8 mod	Cadmium
ICP-MS	EPA 200.8 mod	Chromium
ICP-MS	EPA 200.8 mod	Cobalt
ICP-MS	EPA 200.8 mod	Copper
ICP-MS	EPA 200.8 mod	Iron
ICP-MS	EPA 200.8 mod	Lead
ICP-MS	EPA 200.8 mod	Magnesium
ICP-MS	EPA 200.8 mod	Manganese
ICP-MS	EPA 200.8 mod	Molybdenum
ICP-MS	EPA 200.8 mod	Nickel
ICP-MS	EPA 200.8 mod	Potassium
ICP-MS	EPA 200.8 mod	Selenium
ICP-MS	EPA 200.8 mod	Silver
ICP-MS	EPA 200.8 mod	Sodium
ICP-MS	EPA 200.8 mod	Strontium
ICP-MS	EPA 200.8 mod	Thallium
ICP-MS	EPA 200.8 mod	Tin
ICP-MS	EPA 200.8 mod	Vanadium



Solid and Chemical Materials		
Technology	Method	Analyte
ICP-MS	EPA 200.8 mod	Zinc
ICP-MS	EPA 6020 mod	Aluminum
ICP-MS	EPA 6020 mod	Arsenic
ICP-MS	EPA 6020 mod	Antimony
ICP-MS	EPA 6020 mod	Barium
ICP-MS	EPA 6020 mod	Beryllium
ICP-MS	EPA 6020 mod	Boron
ICP-MS	EPA 6020 mod	Calcium
ICP-MS	EPA 6020 mod	Cadmium
ICP-MS	EPA 6020 mod	Chromium
ICP-MS	EPA 6020 mod	Cobalt
ICP-MS	EPA 6020 mod	Copper
ICP-MS	EPA 6020 mod	Iron
ICP-MS	EPA 6020 mod	Lead
ICP-MS	EPA 6020 mod	Magnesium
ICP-MS	EPA 6020 mod	Manganese
ICP-MS	EPA 6020 mod	Molybdenum
ICP-MS	EPA 6020 mod	Nickel
ICP-MS	EPA 6020 mod	Potassium
ICP-MS	EPA 6020 mod	Selenium
ICP-MS	EPA 6020 mod	Silver
ICP-MS	EPA 6020 mod	Sodium
ICP-MS	EPA 6020 mod	Strontium
ICP-MS	EPA 6020 mod	Thallium
ICP-MS	EPA 6020 mod	Tin
ICP-MS	EPA 6020 mod	Vanadium
ICP-MS	EPA 6020 mod	Zinc
IC-ICP-MS	BAL-4300	Hexavalent Chromium Cr(VI)
HGAAS	EPA 1632A	Inorganic Arsenic
HGAAS	EPA 1632A	Trivalent Arsenic
HGAAS	BAL-3300	Inorganic Arsenic
HGAAS	BAL-3300	Trivalent Arsenic
Difference	EPA 1632A	Pentavalent Arsenic
Difference	BAL-3300	Pentavalent Arsenic
CVAFS	EPA 1631E (appendix)	Low-Level Mercury
CVAFS	BAL-3101	Low-Level Mercury



Solid and Chemical Materials		
Technology	Method	Analyte
CVAFS	EPA 1630 mod	Methyl Mercury
CVAFS	BAL-3200	Methyl Mercury
Gravimetric	SM 2540 G (20 th Ed.)	Dry Weight
Gravimetric	EPA 160.3	Dry Weight
Preparation	Method	Type
Alkaline Digestion	EPA 3060A	Extraction of Hexavalent Chromium
Alkaline Digestion	BAL-4310	Extraction of Hexavalent Chromium

Biological Tissue		
Technology	Method	Analyte
ICP-MS	BAL-5000	Aluminum
ICP-MS	BAL-5000	Arsenic
ICP-MS	BAL-5000	Antimony
ICP-MS	BAL-5000	Barium
ICP-MS	BAL-5000	Beryllium
ICP-MS	BAL-5000	Boron
ICP-MS	BAL-5000	Calcium
ICP-MS	BAL-5000	Cadmium
ICP-MS	BAL-5000	Chromium
ICP-MS	BAL-5000	Cobalt
ICP-MS	BAL-5000	Copper
ICP-MS	BAL-5000	Iron
ICP-MS	BAL-5000	Lead
ICP-MS	BAL-5000	Magnesium
ICP-MS	BAL-5000	Manganese
ICP-MS	BAL-5000	Molybdenum
ICP-MS	BAL-5000	Nickel
ICP-MS	BAL-5000	Selenium
ICP-MS	BAL-5000	Silver
ICP-MS	BAL-5000	Strontium
ICP-MS	BAL-5000	Thallium
ICP-MS	BAL-5000	Tin
ICP-MS	BAL-5000	Vanadium
ICP-MS	BAL-5000	Zinc



Biological Tissue		
Technology	Method	Analyte
ICP-MS	EPA 1638 mod	Aluminum
ICP-MS	EPA 1638 mod	Arsenic
ICP-MS	EPA 1638 mod	Antimony
ICP-MS	EPA 1638 mod	Barium
ICP-MS	EPA 1638 mod	Beryllium
ICP-MS	EPA 1638 mod	Boron
ICP-MS	EPA 1638 mod	Calcium
ICP-MS	EPA 1638 mod	Cadmium
ICP-MS	EPA 1638 mod	Chromium
ICP-MS	EPA 1638 mod	Cobalt
ICP-MS	EPA 1638 mod	Copper
ICP-MS	EPA 1638 mod	Iron
ICP-MS	EPA 1638 mod	Lead
ICP-MS	EPA 1638 mod	Magnesium
ICP-MS	EPA 1638 mod	Manganese
ICP-MS	EPA 1638 mod	Molybdenum
ICP-MS	EPA 1638 mod	Nickel
ICP-MS	EPA 1638 mod	Selenium
ICP-MS	EPA 1638 mod	Silver
ICP-MS	EPA 1638 mod	Strontium
ICP-MS	EPA 1638 mod	Thallium
ICP-MS	EPA 1638 mod	Tin
ICP-MS	EPA 1638 mod	Vanadium
ICP-MS	EPA 1638 mod	Zinc
ICP-MS	EPA 200.8 mod	Aluminum
ICP-MS	EPA 200.8 mod	Arsenic
ICP-MS	EPA 200.8 mod	Antimony
ICP-MS	EPA 200.8 mod	Barium
ICP-MS	EPA 200.8 mod	Beryllium
ICP-MS	EPA 200.8 mod	Boron
ICP-MS	EPA 200.8 mod	Calcium
ICP-MS	EPA 200.8 mod	Cadmium
ICP-MS	EPA 200.8 mod	Chromium
ICP-MS	EPA 200.8 mod	Cobalt
ICP-MS	EPA 200.8 mod	Copper
ICP-MS	EPA 200.8 mod	Iron

Biological Tissue		
Technology	Method	Analyte
ICP-MS	EPA 200.8 mod	Lead
ICP-MS	EPA 200.8 mod	Magnesium
ICP-MS	EPA 200.8 mod	Manganese
ICP-MS	EPA 200.8 mod	Molybdenum
ICP-MS	EPA 200.8 mod	Nickel
ICP-MS	EPA 200.8 mod	Selenium
ICP-MS	EPA 200.8 mod	Silver
ICP-MS	EPA 200.8 mod	Strontium
ICP-MS	EPA 200.8 mod	Thallium
ICP-MS	EPA 200.8 mod	Tin
ICP-MS	EPA 200.8 mod	Vanadium
ICP-MS	EPA 200.8 mod	Zinc
ICP-MS	EPA 6020 mod	Aluminum
ICP-MS	EPA 6020 mod	Arsenic
ICP-MS	EPA 6020 mod	Antimony
ICP-MS	EPA 6020 mod	Barium
ICP-MS	EPA 6020 mod	Beryllium
ICP-MS	EPA 6020 mod	Boron
ICP-MS	EPA 6020 mod	Calcium
ICP-MS	EPA 6020 mod	Cadmium
ICP-MS	EPA 6020 mod	Chromium
ICP-MS	EPA 6020 mod	Cobalt
ICP-MS	EPA 6020 mod	Copper
ICP-MS	EPA 6020 mod	Iron
ICP-MS	EPA 6020 mod	Lead
ICP-MS	EPA 6020 mod	Magnesium
ICP-MS	EPA 6020 mod	Manganese
ICP-MS	EPA 6020 mod	Molybdenum
ICP-MS	EPA 6020 mod	Nickel
ICP-MS	EPA 6020 mod	Selenium
ICP-MS	EPA 6020 mod	Silver
ICP-MS	EPA 6020 mod	Strontium
ICP-MS	EPA 6020 mod	Thallium
ICP-MS	EPA 6020 mod	Tin
ICP-MS	EPA 6020 mod	Vanadium
ICP-MS	EPA 6020 mod	Zinc



Biological Tissue		
Technology	Method	Analyte
IC-ICP-MS	BAL-4100	Trivalent Arsenic
IC-ICP-MS	BAL-4100	Pentavalent Arsenic
IC-ICP-MS	BAL-4100	Monomethylarsonic acid (MMA)
IC-ICP-MS	BAL-4100	Dimethylarsinic acid (DMA)
IC-ICP-MS	BAL-4191	Arsenobetaine (AsB)
HGAAS	EPA 1632A	Inorganic Arsenic
HGAAS	EPA 1632A	Trivalent Arsenic
HGAAS	BAL-3300	Inorganic Arsenic
HGAAS	BAL-3300	Trivalent Arsenic
Difference	EPA 1632A	Pentavalent Arsenic
Difference	BAL-3300	Pentavalent Arsenic
CVAFS	EPA 1631E (appendix)	Low-Level Mercury
CVAFS	BAL-3101	Low-Level Mercury
CVAFS	EPA 1630 mod	Methyl Mercury
CVAFS	BAL-3200	Methyl Mercury
Gravimetric	SM 2540 G (20 th Ed.)	Dry Weight
Gravimetric	EPA 160.3	Dry Weight

Note:

1. This scope is formatted as part of a single document including Certificate of Accreditation No. ADE-1447.01

Vice President

