CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

Eurofins St. Louis
13715 Rider Trail North
Earth City, Missouri 63045

Fulfills the requirements of

ISO/IEC 17025:2017

and the

U.S. Department of Energy (DOE) Consolidated Audit Program (DOECAP) requirements identified within the DoD/DOE Quality Systems Manual (DoD/DOE QSM V6.0)

In the field of

TESTING

This certificate is valid only when accompanied by a current scope of accreditation document.
The current scope of accreditation can be verified at www.anab.org.

Jason Stine, Vice President

Expiry Date: 06 April 2027

Certificate Number: L2305.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. 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 17025:2017

and

U.S. Department of Energy (DOE) Consolidated Audit Program (DOECAP) requirements identified within the DoD/DOE Quality Systems Manual (DoD/DOE QSM V6.0)

Eurofins St. Louis
13715 Rider Trail North
Earth City, Missouri 63045
Kristen Ely
314-298-8566

TESTING

Valid to: **April 6, 2027** Certificate Number: **L2305.01**

Environmental

Non-Potable Water		
Technology	**Method**	**Analyte**
ICP-AES	EPA 6010D	Aluminum
ICP-AES	EPA 6010D	Antimony
ICP-AES	EPA 6010D	Arsenic
ICP-AES	EPA 6010D	Barium
ICP-AES	EPA 6010D	Beryllium
ICP-AES	EPA 6010D	Bismuth
ICP-AES	EPA 6010D	Boron
ICP-AES	EPA 6010D	Cadmium
ICP-AES	EPA 6010D	Calcium
ICP-AES	EPA 6010D	Chromium
ICP-AES	EPA 6010D	Cobalt
ICP-AES	EPA 6010D	Copper
ICP-AES	EPA 6010D	Iron

Non-Potable Water		
Technology	**Method**	**Analyte**
ICP-AES	EPA 6010D	Lead
ICP-AES	EPA 6010D	Lithium
ICP-AES	EPA 6010D	Magnesium
ICP-AES	EPA 6010D	Manganese
ICP-AES	EPA 6010D	Molybdenum
ICP-AES	EPA 6010D	Nickel
ICP-AES	EPA 6010D	Phosphorus
ICP-AES	EPA 6010D	Potassium
ICP-AES	EPA 6010D	Selenium
ICP-AES	EPA 6010D	Silicon/ Silica as SiO2
ICP-AES	EPA 6010D	Silver
ICP-AES	EPA 6010D	Sodium
ICP-AES	EPA 6010D	Strontium
ICP-AES	EPA 6010D	Sulfur
ICP-AES	EPA 6010D	Thallium
ICP-AES	EPA 6010D	Thorium
ICP-AES	EPA 6010D	Tin
ICP-AES	EPA 6010D	Titanium
ICP-AES	EPA 6010D	Vanadium
ICP-AES	EPA 6010D	Zinc
ICP-MS	EPA6020B	Aluminum
ICP-MS	EPA6020B	Antimony
ICP-MS	EPA6020B	Arsenic
ICP-MS	EPA6020B	Barium
ICP-MS	EPA6020B	Beryllium
ICP-MS	EPA6020B	Bismuth
ICP-MS	EPA6020B	Boron
ICP-MS	EPA6020B	Cadmium
ICP-MS	EPA6020B	Calcium
ICP-MS	EPA6020B	Cerium
ICP-MS	EPA6020B	Cesium

Non-Potable Water		
Technology	**Method**	**Analyte**
ICP-MS	EPA6020B	Chromium
ICP-MS	EPA6020B	Cobalt
ICP-MS	EPA6020B	Copper
ICP-MS	EPA6020B	Gold
ICP-MS	EPA6020B	Hafnium
ICP-MS	EPA6020B	Iron
ICP-MS	EPA6020B	Lanthanum
ICP-MS	EPA6020B	Lead
ICP-MS	EPA6020B	Lithium
ICP-MS	EPA6020B	Magnesium
ICP-MS	EPA6020B	Manganese
ICP-MS	EPA6020B	Molybdenum
ICP-MS	EPA6020B	Neodymium
ICP-MS	EPA6020B	Nickel
ICP-MS	EPA6020B	Niobium
ICP-MS	EPA6020B	Palladium
ICP-MS	EPA6020B	Phosphorus
ICP-MS	EPA6020B	Platinum
ICP-MS	EPA6020B	Potassium
ICP-MS	EPA6020B	Praseodymium
ICP-MS	EPA6020B	Rhenium
ICP-MS	EPA6020B	Rhodium
ICP-MS	EPA6020B	Ruthenium
ICP-MS	EPA6020B	Samarium
ICP-MS	EPA6020B	Selenium
ICP-MS	EPA6020B	Silver
ICP-MS	EPA6020B	Sodium
ICP-MS	EPA6020B	Strontium
ICP-MS	EPA6020B	Tantalum
ICP-MS	EPA6020B	Tellurium
ICP-MS	EPA6020B	Thallium

Non-Potable Water		
Technology	**Method**	**Analyte**
ICP-MS	EPA6020B	Thorium
ICP-MS	EPA6020B	Tin
ICP-MS	EPA6020B	Titanium
ICP-MS	EPA6020B	Tungsten
ICP-MS	EPA6020B	Uranium
ICP-MS	EPA6020B	Uranium 233
ICP-MS	EPA6020B	Uranium 234
ICP-MS	EPA6020B	Uranium 235
ICP-MS	EPA6020B	Uranium 236
ICP-MS	EPA6020B	Uranium 238
ICP-MS	EPA6020B	Vanadium
ICP-MS	EPA6020B	Yttrium
ICP-MS	EPA6020B	Zinc
ICP-MS	EPA6020B	Zirconium
ICP-MS	EPA6020B	Total Hardness
ICP-MS	EPA6020B	Dysprosium
ICP-MS	EPA6020B	Erbium
ICP-MS	EPA6020B	Europium
ICP-MS	EPA6020B	Gadolinium
ICP-MS	EPA6020B	Gallium
ICP-MS	EPA6020B	Holmium
ICP-MS	EPA6020B	Lutetium
ICP-MS	EPA6020B	Rubidium
ICP-MS	EPA6020B	Terbium
ICP-MS	EPA6020B	Thulium
ICP-MS	EPA6020B	Ytterbium
ICP-MS	EPA 200.8	Aluminum
ICP-MS	EPA 200.8	Antimony
ICP-MS	EPA 200.8	Arsenic
ICP-MS	EPA 200.8	Barium
ICP-MS	EPA 200.8	Beryllium

Non-Potable Water		
Technology	**Method**	**Analyte**
ICP-MS	EPA 200.8	Boron
ICP-MS	EPA 200.8	Cadmium
ICP-MS	EPA 200.8	Calcium
ICP-MS	EPA 200.8	Cerium
ICP-MS	EPA 200.8	Cesium
ICP-MS	EPA 200.8	Chromium
ICP-MS	EPA 200.8	Cobalt
ICP-MS	EPA 200.8	Copper
ICP-MS	EPA 200.8	Iron
ICP-MS	EPA 200.8	Lead
ICP-MS	EPA 200.8	Lithium
ICP-MS	EPA 200.8	Magnesium
ICP-MS	EPA 200.8	Manganese
ICP-MS	EPA 200.8	Molybdenum
ICP-MS	EPA 200.8	Nickel
ICP-MS	EPA 200.8	Phosphorus
ICP-MS	EPA 200.8	Platinum
ICP-MS	EPA 200.8	Potassium
ICP-MS	EPA 200.8	Rhodium
ICP-MS	EPA 200.8	Selenium
ICP-MS	EPA 200.8	Silver
ICP-MS	EPA 200.8	Sodium
ICP-MS	EPA 200.8	Strontium
ICP-MS	EPA 200.8	Thallium
ICP-MS	EPA 200.8	Thorium
ICP-MS	EPA 200.8	Tin
ICP-MS	EPA 200.8	Titanium
ICP-MS	EPA 200.8	Tungsten
ICP-MS	EPA 200.8	Uranium
ICP-MS	EPA 200.8	Vanadium
ICP-MS	EPA 200.8	Zinc

Non-Potable Water		
Technology	**Method**	**Analyte**
ICP-MS	EPA 200.8	Zirconium
ICP-AES	EPA 200.7	Aluminum
ICP-AES	EPA 200.7	Antimony
ICP-AES	EPA 200.7	Arsenic
ICP-AES	EPA 200.7	Barium
ICP-AES	EPA 200.7	Beryllium
ICP-AES	EPA 200.7	Bismuth
ICP-AES	EPA 200.7	Boron
ICP-AES	EPA 200.7	Cadmium
ICP-AES	EPA 200.7	Calcium
ICP-AES	EPA 200.7	Chromium
ICP-AES	EPA 200.7	Cobalt
ICP-AES	EPA 200.7	Copper
ICP-AES	EPA 200.7	Iron
ICP-AES	EPA 200.7	Lead
ICP-AES	EPA 200.7	Lithium
ICP-AES	EPA 200.7	Magnesium
ICP-AES	EPA 200.7	Manganese
ICP-AES	EPA 200.7	Molybdenum
ICP-AES	EPA 200.7	Nickel
ICP-AES	EPA 200.7	Phosphorus
ICP-AES	EPA 200.7	Potassium
ICP-AES	EPA 200.7	Selenium
ICP-AES	EPA 200.7	Silicon/ Silica as SiO2
ICP-AES	EPA 200.7	Silver
ICP-AES	EPA 200.7	Sodium
ICP-AES	EPA 200.7	Strontium
ICP-AES	EPA 200.7	Sulfur
ICP-AES	EPA 200.7	Thallium
ICP-AES	EPA 200.7	Thorium
ICP-AES	EPA 200.7	Tin

Non-Potable Water		
Technology	**Method**	**Analyte**
ICP-AES	EPA 200.7	Titanium
ICP-AES	EPA 200.7	Vanadium
ICP-AES	EPA 200.7	Zinc
CVAA	EPA 245.1/7470A	Mercury
Gas Flow Proportional Counter	EPA 900.0 Rev 1 EPA 9310 SM 7110C	Gross Alpha/Beta
Gas Flow Proportional Counter	ST-RC-0036/ SOP 57876 ST-RD-0403/ SOP 57919	Chlorine-36
Gas Flow Proportional Counter	EPA 903.0 EPA 9315	Radium-226
Gas Flow Proportional Counter	EPA 903.0 EPA 9315	total radium
Gas Flow Proportional Counter	EPA 904.0 EPA 9320	Radium-228
Gas Flow Proportional Counter	EPA 905.0 DOE HASL 300 Sr-02 DOE HASL 300 Sr-03	Strontium-90 Total Beta Strontium
Gas Flow Proportional Counter	ST-RC-0058 SOP 57872 ASTM D5811	Strontium-90 Total Beta Strontium
Liquid Scintillation Counter	SOP57896	Plutonium-241
Liquid Scintillation Counter	SM 7500-Rn B	Radon-222
Liquid Scintillation Counter	ST-RC-0079 SOP 57891	Selenium-79
Liquid Scintillation Counter	EPA 906.0 DOE HASL 300 H3-04-RC	Tritium
Liquid Scintillation Counter	Eichrom Technologies TCW01/TCS01 HASL 300 Tc-02-RC	Tecnetium-99
Liquid Scintillation Counter	EERF C-01-C14	Carbon-14
Liquid Scintillation Counter	Eichrom Technologies OTW01, OTS01	Lead-210
Liquid Scintillation Counter	Eichrom Technologies FEW01	Iron-55
Liquid Scintillation Counter	SOP 57880	Nickel 59/63

Non-Potable Water		
Technology	**Method**	**Analyte**
Liquid Scintillation Counter	SM 7500-IB	Iodine-129
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Gamma Emitters:
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Actinium 227 (assumes equilibrium w/ Th-227)
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Actinium 228
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Americium 241
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Antimony 124
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Antimony 125
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Barium/Lanthanum-140
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Barium 133
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Barium 140
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Beryllium 7
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Bismuth 207
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Bismuth-210M
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Bismuth 212

Non-Potable Water		
Technology	**Method**	**Analyte**
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Bismuth 214
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Cerium 141
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Cerium 139
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Cerium 144
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Cesium 134
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Cesium 137
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Cobalt 56
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Cobalt 57
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Cobalt 58
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Cobalt 60
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Europium 152
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Europium 154
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Europium 155

Non-Potable Water		
Technology	**Method**	**Analyte**
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Hafnium 181
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Iodine 131
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Iridium 192
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Iron 59
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Lanthanum 140
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Lead 210
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Lead 212
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Lead 214
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Manganese 54
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Mercury 203
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Neptunium 237
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Neptunium 239
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Niobium 94

Non-Potable Water		
Technology	**Method**	**Analyte**
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Niobium 95
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Potassium 40
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Promethium 144
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Promethium 146
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Protactinium 234M
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Protactinium 231
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Protactinium 234
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Radium (226)
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Radium 228
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Radium 223 (assumes equilibrium w/ Th-227)
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Radium 224
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Ruthenium 106
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Scandium 46

Non-Potable Water		
Technology	**Method**	**Analyte**
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Sodium 22
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Sodium 24
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Strontium 85
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Thallium 208
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Thorium 227
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Thorium 228
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Thorium 231
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Thorium 232
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Thorium 234
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Tin 113
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Uranium 235
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Uranium 238
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Vanadium-48

Non-Potable Water		
Technology	**Method**	**Analyte**
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Yttrium 88
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Zinc 65
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Zirconium 95
Alpha Spectroscopy	DOE HASL 300 A-01-R/ DOE HASL 300 U-02-RC	Isotopic Uranium
Alpha Spectroscopy	DOE HASL 300 A-01-R	Isotopic Thorium
Alpha Spectroscopy	DOE HASL 300 A-01-R	Isotopic Americium
Alpha Spectroscopy	DOE HASL 300 A-01-R	Isotopic Plutonium
Alpha Spectroscopy	DOE HASL 300 A-01-R	Isotopic Neptunium
Alpha Spectroscopy	DOE HASL 300 A-01-R	Isotopic Curium
Alpha Spectroscopy	ST-RC-0301 SOP 57861 DOE HASL 300 A-01-R	Radium-226
Alpha Spectroscopy	ST-RC-0210 SOP 57863 DOE HASL 300 A-01-R	Polonium-210
Preparation	**Method**	**Type**
Acid Digestion (Aqueous samples)	EPA 3010A EPA 3005A	Acid Digestion for Metals (Aqueous samples)

Drinking Water		
Technology	**Method**	**Analyte**
ICP-MS	EPA 200.8	Uranium
Alpha Spectroscopy	DOE HASL 300 U-02-RC	Isotopic Uranium
Gas Flow Proportional Counter	EPA 900.0 Rev 1	Gross Alpha/Beta
Gas Flow Proportional Counter	SM 7110C	Gross Alpha

Drinking Water		
Technology	**Method**	**Analyte**
Gas Flow Proportional Counter	EPA 903.0	Radium-226
Gas Flow Proportional Counter	EPA 904.0	Radium-228
Gas Flow Proportional Counter	EPA 905.0	Strontium-90
Liquid Scintillation Counter	SM 7500-Rn B	Radon-222
Liquid Scintillation Counter	EPA 906.0	Tritium

Solid and Chemical Materials		
Technology	**Method**	**Analyte**
ICP-AES	EPA 6010D	Aluminum
ICP-AES	EPA 6010D	Antimony
ICP-AES	EPA 6010D	Arsenic
ICP-AES	EPA 6010D	Barium
ICP-AES	EPA 6010D	Beryllium
ICP-AES	EPA 6010D	Bismuth
ICP-AES	EPA 6010D	Boron
ICP-AES	EPA 6010D	Cadmium
ICP-AES	EPA 6010D	Calcium
ICP-AES	EPA 6010D	Chromium
ICP-AES	EPA 6010D	Cobalt
ICP-AES	EPA 6010D	Copper
ICP-AES	EPA 6010D	Iron
ICP-AES	EPA 6010D	Lead
ICP-AES	EPA 6010D	Lithium
ICP-AES	EPA 6010D	Magnesium
ICP-AES	EPA 6010D	Manganese
ICP-AES	EPA 6010D	Molybdenum
ICP-AES	EPA 6010D	Nickel
ICP-AES	EPA 6010D	Phosphorus

Solid and Chemical Materials		
Technology	**Method**	**Analyte**
ICP-AES	EPA 6010D	Potassium
ICP-AES	EPA 6010D	Selenium
ICP-AES	EPA 6010D	Silicon
ICP-AES	EPA 6010D	Silver
ICP-AES	EPA 6010D	Sodium
ICP-AES	EPA 6010D	Strontium
ICP-AES	EPA 6010D	Sulfur
ICP-AES	EPA 6010D	Thallium
ICP-AES	EPA 6010D	Thorium
ICP-AES	EPA 6010D	Tin
ICP-AES	EPA 6010D	Titanium
ICP-AES	EPA 6010D	Vanadium
ICP-AES	EPA 6010D	Zinc
ICP-MS	EPA 6020B	Aluminum
ICP-MS	EPA 6020B	Antimony
ICP-MS	EPA 6020B	Arsenic
ICP-MS	EPA 6020B	Barium
ICP-MS	EPA 6020B	Beryllium
ICP-MS	EPA 6020B	Bismuth
ICP-MS	EPA 6020B	Boron
ICP-MS	EPA 6020B	Cadmium
ICP-MS	EPA 6020B	Calcium
ICP-MS	EPA 6020B	Cerium
ICP-MS	EPA 6020B	Cesium
ICP-MS	EPA 6020B	Chromium
ICP-MS	EPA 6020B	Cobalt
ICP-MS	EPA 6020B	Copper
ICP-MS	EPA 6020B	Gold
ICP-MS	EPA 6020B	Hafnium
ICP-MS	EPA 6020B	Iron
ICP-MS	EPA 6020B	Lanthanum

Solid and Chemical Materials		
Technology	**Method**	**Analyte**
ICP-MS	EPA 6020B	Lead
ICP-MS	EPA 6020B	Lithium
ICP-MS	EPA 6020B	Magnesium
ICP-MS	EPA 6020B	Manganese
ICP-MS	EPA 6020B	Molybdenum
ICP-MS	EPA 6020B	Neodymium
ICP-MS	EPA 6020B	Nickel
ICP-MS	EPA 6020B	Niobium
ICP-MS	EPA 6020B	Palladium
ICP-MS	EPA 6020B	Phosphorus
ICP-MS	EPA 6020B	Platinum
ICP-MS	EPA 6020B	Potassium
ICP-MS	EPA 6020B	Praseodymium
ICP-MS	EPA 6020B	Rhenium
ICP-MS	EPA 6020B	Rhodium
ICP-MS	EPA 6020B	Ruthenium
ICP-MS	EPA 6020B	Samarium
ICP-MS	EPA 6020B	Selenium
ICP-MS	EPA 6020B	Silver
ICP-MS	EPA 6020B	Sodium
ICP-MS	EPA 6020B	Strontium
ICP-MS	EPA 6020B	Tantalum
ICP-MS	EPA 6020B	Tellurium
ICP-MS	EPA 6020B	Thallium
ICP-MS	EPA 6020B	Thorium
ICP-MS	EPA 6020B	Tin
ICP-MS	EPA 6020B	Titanium
ICP-MS	EPA 6020B	Tungsten
ICP-MS	EPA 6020B	Uranium
ICP-MS	EPA 6020B	Uranium 233
ICP-MS	EPA 6020B	Uranium 234

Solid and Chemical Materials		
Technology	**Method**	**Analyte**
ICP-MS	EPA 6020B	Uranium 235
ICP-MS	EPA 6020B	Uranium 236
ICP-MS	EPA 6020B	Uranium 238
ICP-MS	EPA 6020B	Vanadium
ICP-MS	EPA 6020B	Yttrium
ICP-MS	EPA 6020B	Zinc
ICP-MS	EPA 6020B	Zirconium
ICP-MS	EPA 6020B	Dysprosium
ICP-MS	EPA 6020B	Erbium
ICP-MS	EPA 6020B	Europium
ICP-MS	EPA 6020B	Gadolinium
ICP-MS	EPA 6020B	Gallium
ICP-MS	EPA 6020B	Holmium
ICP-MS	EPA 6020B	Lutertium
ICP-MS	EPA 6020B	Rubidium
ICP-MS	EPA 6020B	Terbium
ICP-MS	EPA 6020B	Thulium
ICP-MS	EPA 6020B	Ytterbium
CVAA	EPA 7471B	Mercury
Gas Flow Proportional Counter	EPA 900.0 Rev 1 EPA 9310	Gross Alpha/Beta
Gas Flow Proportional Counter	EPA 903.0 EPA 9315	Radium-226
Gas Flow Proportional Counter	EPA 903.0 EPA 9315	total radium
Gas Flow Proportional Counter	EPA 904.0 EPA 9320	Radium-228
Gas Flow Proportional Counter	EPA 905.0 DOE HASL 300 Sr-02 DOE HASL 300 Sr-03	Strontium-90 Total Beta Strontium
Gas Flow Proportional Counter	ST-RC-0058 SOP57872 ASTM C1507	Strontium-90 Total Beta Strontium
Liquid Scintillation Counter	SOP57896	Plutonium-241

Solid and Chemical Materials		
Technology	**Method**	**Analyte**
Liquid Scintillation Counter	EPA 906.0 DOE HASL 300 H3-04-RC	Tritium
Liquid Scintillation Counter	Eichrom Technologies TCW01/TCS01 HASL 300 Tc-02-RC	Technetium-99
Liquid Scintillation Counter	EERF C-01-C14	Carbon-14
Liquid Scintillation Counter	Eichrom Technologies OTW01, OTS01	Lead-210
Liquid Scintillation Counter	Eichrom Technologies FEW01	Iron-55
Liquid Scintillation Counter	SOP 57880	Nickel 59/63
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Gamma Emitters:
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Actinium 227 (assumes equilibrium w/ Th-227)
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Actinium 228
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Americium 241
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Antimony 124
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R	Antimony 125
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Barium/Lanthanum-140
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Barium 133
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Barium 140

Solid and Chemical Materials		
Technology	**Method**	**Analyte**
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Beryllium 7
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Bismuth 207
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Bismuth-210M
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Bismuth 212
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Bismuth 214
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Cerium 141
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Cerium 139
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Cerium 144
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Cesium 134
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Cesium 137
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Cobalt 56
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Cobalt 57
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Cobalt 58

Solid and Chemical Materials		
Technology	**Method**	**Analyte**
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Cobalt 60
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Europium 152
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Europium 154
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Europium 155
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Hafnium 181
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Iodine 129
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Iodine 131
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Iridium 192
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Iron 59
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Lanthanum 140
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Lead 210
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Lead 212
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Lead 214

Solid and Chemical Materials		
Technology	**Method**	**Analyte**
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Manganese 54
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Mercury 203
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Neptunium 237
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Neptunium 239
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Niobium 94
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Niobium 95
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R	Potassium 40
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Promethium 144
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Promethium 146
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Protactinium 234M
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Protactinium 231
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Protactinium 234
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Radium (226)

Solid and Chemical Materials		
Technology	**Method**	**Analyte**
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Radium 228
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Radium 223 (assumes equilibrium w/ Th-227)
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Radium 224
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Ruthenium 106
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Scandium 46
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Sodium 22
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Sodium 24
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Strontium 85
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Thallium 208
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Thorium 227
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Thorium 228
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Thorium 231
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Thorium 232

Solid and Chemical Materials		
Technology	**Method**	**Analyte**
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Thorium 234
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Tin 113
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Uranium 235
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Uranium 238
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Vanadium-48
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Yttrium 88
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Zinc 65
Gamma Spectroscopy	EPA 901.1 / DOE HASL 300 Ga-01-R DOE EML sec 4.5.2.3	Zirconium 95
Alpha Spectroscopy	DOE HASL 300 A-01-R/ DOE HASL 300 U-02-RC	Isotopic Uranium
Alpha Spectroscopy	DOE HASL 300 A-01-R	Isotopic Thorium
Alpha Spectroscopy	DOE HASL 300 A-01-R	Isotopic Americium
Alpha Spectroscopy	DOE HASL 300 A-01-R	Isotopic Plutonium
Alpha Spectroscopy	DOE HASL 300 A-01-R	Isotopic Neptunium
Alpha Spectroscopy	DOE HASL 300 A-01-R	Isotopic Curium
Alpha Spectroscopy	ST-RC-0301 SOP 57861 DOE HASL 300 A-01-R	Radium-226
Alpha Spectroscopy	ST-RC-0210 SOP 57863 DOE HASL 300 A-01-R	Polonium-210
Preparation	**Method**	**Type**

Solid and Chemical Materials		
Technology	**Method**	**Analyte**
Acid Digestion (solids)	EPA 3050B	Acid Digestion for Metals of Sediment/Soils

Note:

1. This scope is formatted as part of a single document including Certificate of Accreditation No. L2305.01
2. This laboratory is compliant with the HASQARD check list
3. Eurofins St. Louis is a laboratory within TestAmerica Laboratories, Inc., a company within Eurofins Environment Testing Group of Companies.

Jason Stine, Vice President