



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

Perry Johnson Laboratory Accreditation, Inc.
has assessed the Organization of:

Materials and Chemistry Laboratory, Inc. (MCLinc)
161 Mitchell Road, Oak Ridge, TN 37830

(Hereinafter called the Organization) and hereby declares that Organization has met the requirements of ISO/IEC 17025:2017 General Requirements for the competence of Testing and Calibration Laboratories and the United States Department of Defense Environmental Laboratory Accreditation Program (DoD-ELAP) requirements identified within the DoD/DOE Quality Systems Manual (DoD/DOE QSM) Version 6.0 December 2023 and is accredited in accordance with the:

United States Department of Defense Environmental Laboratory Accreditation Program (DoD-ELAP)

This accreditation demonstrates the technical competence for the defined scope and the operation of a laboratory quality management system
(as outlined by the joint ISO-ILAC-IAF Communiqué dated April 2017):

Industrial Hygiene and Chemical Testing *(As detailed in the supplement)*

Accreditation claims for such activities shall only be made from the addresses referenced within this certificate. This Accreditation is granted subject to the system rules governing the Accreditation referred to above, and the Organization hereby covenants with the Accreditation Body's duty to observe and comply with the said rules.

For PJLA

Initial Accreditation Date:

November 18, 2024

Issue Date:

November 18, 2024

Expiration Date

September 30, 2026

Tracy Szorszen
President

Accreditation No:

99882

Certificate No:

L24-873

Perry Johnson Laboratory
Accreditation, Inc. (PJLA)
755 W. Big Beaver, Suite 1325
Troy, Michigan 48084

The validity of this certificate is maintained through ongoing assessments based on a continuous accreditation cycle. The validity of this certificate should be confirmed through the PJLA website: www.pjllabs.com



Certificate of Accreditation: Supplement

Materials and Chemistry Laboratory, Inc. (MCLinc)

161 Mitchell Road, Oak Ridge, TN 37830

Contact Name: Michele Sanders Phone: 865-276-6910

Accreditation is granted to the facility to perform the following testing:

Code

Asbestos

NIOSH 7400 (MCL SOP 7721) by Phase Contrast Microscopy (PCM) NC

Filter

Asbestos 1520

NIOSH 7402 (MCL SOP 7708) by Transmission Electron Microscopy (TEM) NC

Filter

Asbestos 1520

NIOSH 9002 (MCL SOP 7720) by Polarized Light Microscopy (PLM) NC

Solid, Filter

Asbestos 1520

General Chemistry

ASTM D-3278, ASTM D-3828, MCL SOP 7775 by Micro Flashpoint, closed cup NC

Aqueous, Liquid

Flashpoint 6117

NIOSH 0500 by Gravimetry 90012081

Air

Airborne Particulate Material 3915

NIOSH 0600 by Gravimetry 90012081

Air

Airborne Particulate Material 3915

NIOSH 7500, Related ASTM Methods by X-Ray Diffraction NC

Solid, Filter, Wipe

Silica (as SiO₂) 1990

NIOSH 7902, Appendix 29 (MCL- SOP 7775) by Ion Specific Electrode NC

Filter, Wipe

Fluorides NC

Related ASTM Methods, Client Specified Methods by Thermal Gravimetric Analysis (TGA)/MS NC

Liquid

Weight Loss on heating Compound ID NC

Solid

Weight Loss on heating Compound ID NC

SM 2540B (1998) by Drying, filtering 20049416

Aqueous

Solids (Total, TS, Residue) 1950

SM 2540C (1998) by Drying, filtering 20050457

Aqueous

Solids (Total Dissolved, TDS, Residue, Filterable) 1955



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General Chemistry

SM 2540D (1998) by Drying, filtering 20051212

Aqueous

Solids (Total Suspended, TSS, Non-Filterable Residue) 1960

Inorganic

ASTM 5257, EPA 7199 (MCL SOP 7770) by Ion Chromatography (IC) 30031744

Aqueous

Hexavalent Chromium (Cr VI) 1045

ASTM C1267 (MCL SOPs 7737 and 7737A) by Davies-Gray Titration NC

Liquid

Uranium (Total) 1184

Solid 1184

Uranium (Total) 1184

ASTM C1771 (MCL SOP 7768) by ICP/MS of Hydrolyzed Uranium Hexafluoride NC

Liquid

Boron 1025

Silica (as SiO₂) 1990

Technetium-99 (Tc-99) 3020

Solid 1025

Boron 1025

Silica (as SiO₂) 1990

Technetium-99 (Tc-99) 3020

EPA 300.0 (MCL SOP 7739) by Ion Chromatography (IC) 10053608

Aqueous

Bromide 1540

Chloride 1575

Fluoride 1730

Nitrate (as N) 1810

Nitrate + Nitrite (as N) 1820

Orthophosphate (as P) 1870

Sulfate 2000

EPA 6010, OSHA ID-125G (MCL SOP 7751) by ICP/OES NC

Aqueous

Beryllium Testing + BeO NC

Various Metals NC

Solid, Filter, Wipe

Beryllium Testing + BeO NC

Various Metals NC



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	Code
Inorganic	
EPA 6020 (MCL SOP 7768) by ICP/MS	NC
Aqueous	
Beryllium Testing + BeO	NC
Solid, Filter, Wipe	
Beryllium Testing + BeO	NC
EPA 6020 MOD (MCL SOP 7768) by ICP/MS	NC
Aqueous	
Boron Isotopic	NC
Lithium Isotopic	NC
Solid	
Boron Isotopic	NC
Lithium Isotopic	NC
EPA 6020, ASTM C-1345, ASTM C-1474 (MCL SOP 7769) by ICP/MS	NC
Aqueous, Liquid	
Uranium (Isotopic)	3045
Solid, Filter, Wipe	
Uranium (Isotopic)	3045
EPA 6020, EPA 6010, Related ASTM Methods by ICP/OES and ICP/MS	NC
Liquid	
Metals Assay	NC
Solid, Filter, Wipe	
Metals Assay	NC
EPA 6020, NIOSH 7303 (MCL SOP 7768) by ICP/MS	NC
Aqueous	
Metals	NC
Solid, Filter, Wipe	
Metals	NC
EPA 6020M, Related ASTM Methods (MCL SOP 7768) by ICP/MS	NC
Liquid	
Technetium-99 (Tc-99)	3020
Solid	
Technetium-99 (Tc-99)	3020
EPA 9056A by Ion Chromatography (IC)	10199607
Aqueous	
Bromide	1540
Chloride	1575
Fluoride	1730
Nitrate (as N)	1810



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Inorganic

EPA 9056A by Ion Chromatography (IC)	10199607
Aqueous	
Nitrate + Nitrite (as N)	1820
Orthophosphate (as P)	1870
Sulfate	2000
Solid	
Bromide	1540
Chloride	1575
Fluoride	1730
Nitrate (as N)	1810
Nitrate + Nitrite (as N)	1820
Orthophosphate (as P)	1870
Sulfate	2000
NIOSH 6009, Related EPA and ASTM Methods by Cold Vapor Atomic Absorption	90012207
Aqueous	
Mercury	1095
Solid, Filter, Wipe	
Mercury	1095
NIOSH 7300, NIOSH 7301, NIOSH 7303 (MCL SOP 7751) by ICP/OES	NC
Aqueous	
Metals	NC
Solid, Filter, Wipe	
Metals	NC
NIOSH 7903 (MCL SOP 7739) by Ion Chromatography (IC)	NC
Aqueous	
Anions	NC
Solid, Filter, Wipe	
Anions	NC
NIOSH 7906 by Ion Chromatography (IC)	NC
Air	
Fluoride	1730
NIOSH 7907 by Ion Chromatography (IC)	NC
Air	
Chloride	1575
Nitrate (as N)	1810
NIOSH 7908 by Ion Chromatography (IC)	NC
Air	
Phosphate	NC



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Accreditation is granted to the facility to perform the following testing:

Code

Inorganic

NIOSH 7908 by Ion Chromatography (IC)	NC
Air	
Sulfate	2000
OSHA-215 (MCL SOP 7767) by Ion Chromatography (IC)	30031744
Filter	
Hexavalent Chromium (Cr VI)	1045
Solid	
Hexavalent Chromium (Cr VI)	1045
Related ASTM Methods, Client Specified Methods by Scanning Electron Microscopy/EDS	NC
Solid, Filter, Wipe	
Elemental Analysis	NC
Organic	
EPA 8082; NIOSH 5503; ASTM 5175 (MCL SOP 7740) by GC/EC	NC
Oil	
PCBs	NC
Solid	
PCBs	NC
Wipe	
PCBs	NC
Nicolet, Related ASTM Methods by Fourier Transform Infrared (FTIR)	NC
Aqueous, Liquid	
Organic Analysis	NC
Solid	
Organic Analysis	NC



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Accreditation is granted to the facility to perform the following testing:

Code

Preparation

Liquid

EPA 1311 (MCL SOP 7743)	Toxicity Characteristic Leaching Procedure (TCLP)
EPA 3050B (MCL SOPs 7746 and 7752)	Acid Digestion for Metals
EPA 3620B (MCL SOP 7740)	Florisil Cleanup
EPA 3665A (MCL SOP 7740)	Sulfuric Acid Cleanup

Solid

EPA 1311 (MCL SOP 7743)	Toxicity Characteristic Leaching Procedure (TCLP), Zero-Headspace Extraction Vessel (ZHE)
MCL SOP 7738	Anion Preparation by Pyrolysis Apparatus
UCOR Method	Acid Leachates

Solid, Filter, Wipe

EPA 3050B (MCL SOPs 7746 and 7752)	Acid Digestion for Metals
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Footnotes:

- > Method codes are typically based on The NELAC Institute (TNI) Laboratory Accreditation Management System (LAMS) and are used to compare to the laboratory reported Performance Test (PT) results. Although the method code may not represent the specific method version, it is the method code used to represent the method/technology used to report PTs. (NC = No Code)
- > Accreditation is granted through a technology based flexible scope criteria. Additional methods other than listed above may fall under the accreditation of the laboratory. A complete listing of method capabilities can be derived from the laboratory upon request.