



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017
& ANSI/NCSL Z540-1-1994

ALDEN RESEARCH LABORATORY, LLC
A VERDANTAS COMPANY
30 Shrewsbury Street
Holden, MA 01520
James B. Hansson Phone: 508 829 6000

CALIBRATION

Valid To: August 31, 2024

Certificate Number: 4936.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations and tests^{1, 5}:

I. Fluid Quantities

Parameter/Equipment	Range	CMC ^{2, 3} (±)	Comments
Flow Rate – Meters and Differential Producers	(0.1 to 90) GPM	0.08 %	Volumetric flow using gravimetric method
	(20 to 2000) GPM	0.08 %	
	(50 to 8500) GPM	0.10 %	
	(200 to 20 000) GPM	0.10 %	
Flow Rate – Current ⁴	Up to 20 mA	0.14 %	6 ½ Digit multimeter

GEOTECHNICAL

Test Method	Test Description
ASTM D2166	Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass
ASTM D3977 (Method B Only)	Determining Sediment Concentration in Water Samples

¹ This laboratory offers commercial calibration & geotechnical testing service.

² Calibration and Measurement Capability Uncertainty (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of nearly ideal measurement standards or nearly ideal measuring equipment. CMCs represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of $k = 2$. The actual measurement uncertainty of a specific calibration performed by the laboratory may be greater than the CMC due to the behavior of the customer's device and to influences from the circumstances of the specific calibration.

³ In the statement of CMC, percentages are to be read as percent of reading, unless otherwise noted.

⁴ Pertaining to the signal produced by meters calibrated under Flow Rate.

⁵ This Scope meets A2LA's P112 Flexible Scope Policy.



Accredited Laboratory

A2LA has accredited

ALDEN RESEARCH LABORATORY, LLC A VERDANTAS COMPANY

Holden, MA

for technical competence in the field of

Calibration

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets the requirements of ANSI/NCSL Z540-1-1994 and R205 – Specific Requirements: Calibration Laboratory Accreditation Program. 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).



Presented this 16th day of September 2022.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 4936.01
Valid to August 31, 2024
Revised March 21, 2023

For the calibrations to which this accreditation applies, please refer to the laboratory's Calibration Scope of Accreditation.