National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

NYS Bureau of Weights & Measures Metrology Laboratory[note 2]
NYS Department of Agriculture and Market
Bureau of Weights and Measures
10B Airline Drive
Albany, NY 12235
Mr. Michael Sikula
Phone: 518-457-3452 Fax: 518-457-2552
E-mail: mike.sikula@agmkt.state.ny.us
URL: http://www.agmkt.state.ny.us/wm/wmhome.html

CALIBRATION LABORATORIES **NVLAP LAB CODE 200464-0**

Scope Revised: 2011-06-15

DIMENSIONAL

NVLAP Code: 20/D13
Surveying Rods and Tapes

Range	*Best Uncertainty (±)* [note 1]	*Remarks*
0.5 in to < 12 in	0.0037 in	Rules – Rule Method
12 in to 24 in	0.0037 in	Rules – Rule Method
1 ft to 16 ft (0.1 m to 5 m)	0.0045 in	Rules – Tape Method
1 ft to 16 ft (0.1 m to 5 m)	0.0045 in	Steel Tapes – Bench Method
15 ft to 30 ft (5 m to 10 m)	0.009 in	Steel Tapes – Bench Method
30 ft to 45 ft (10 m to 15 m)	0.014 in	Steel Tapes – Bench Method
45 ft to 60 ft (15 m to 20 m)	0.018 in	Steel Tapes – Bench Method
60 ft to 75 ft (20 m to 25 m)	0.022 in	Steel Tapes – Bench Method
75 ft to 90 ft (25 m to 30 m)	0.027 in	Steel Tapes – Bench Method
90 ft to 105 ft (30 m to 35 m)	0.031 in	Steel Tapes – Bench Method
105 ft to 120 ft (35 m to 40 m)	0.036 in	Steel Tapes – Bench Method
120 ft to 135 ft (40 m to 45 m)	0.040 in	Steel Tapes – Bench Method
135 ft to 150 ft (45 m to 50 m)	0.045 in	Steel Tapes – Bench Method
150 ft to 165 ft (50 m to 55 m)	0.049 in	Steel Tapes – Bench Method
156 ft to 180 ft (55 m to 60 m)	0.054 in	Steel Tapes – Bench Method

2011-01-01 through 2011-12-31

Effective dates

Sally S. Bruce

For the National Institute of Standards and Technology

NVLAP-01S (REV. 2004-10-31)

CALIBRATION LABORATORIES **NVLAP LAB CODE 200464-0**

Scope Revised: 2011-06-15

Range	*Best Uncertainty (±)* [note 1]	*Remarks*
180 ft to 195 ft	0.058 in	Steel Tapes – Bench Method
195 ft to 210 ft	0.063 in	Steel Tapes – Bench Method

TIME & FREQUENCY

NVLAP Code: 20/F02
Time Dissemination

Range	*Best Uncertainty (±)* [note 1]	*Remarks*
1 hr to 3 hr	0.18 s	Stopwatches

MECHANICAL

NVLAP Code: 20/M08
Mass – Metric

Range	*Best Uncertainty (±)* [note 1]	*Remarks*
25 kg	25 mg	Echelon II
20 kg	22 mg	Echelon II
10 kg	7.0 mg	Echelon II
5 kg	3.7 mg	Echelon II
3 kg	2.8 mg	Echelon II
2 kg	2.2 mg	Echelon II
1 kg	0.087 mg	Echelon II
500 g	0.070 mg	Echelon II
300 g	0.064 mg	Echelon II
200 g	0.062 mg	Echelon II
100 g	0.037 mg	Echelon II
50 g	0.030 mg	Echelon II
30 g	0.028 mg	Echelon II
20 g	0.026 mg	Echelon II
10 g	0.010 mg	Echelon II

2011-01-01 through 2011-12-31

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CALIBRATION LABORATORIES **NVLAP LAB CODE 200464-0**

Scope Revised: 2011-06-15

Range	*Best Uncertainty (±)* [note 1]	*Remarks*
5 g	0.0076 mg	Echelon II
3 g	0.0068 mg	Echelon II
2 g	0.0066 mg	Echelon II
1 g	0.0029 mg	Echelon II
500 mg	0.0028 mg	Echelon II
300 mg	0.0028 mg	Echelon II
200 mg	0.0028 mg	Echelon II
100 mg	0.0028 mg	Echelon II
50 mg	0.0028 mg	Echelon II
30 mg	0.0028 mg	Echelon II
20 mg	0.0028 mg	Echelon II
10 mg	0.0028 mg	Echelon II
5 mg	0.0028 mg	Echelon II
3 mg	0.0028 mg	Echelon II
2 mg	0.0028 mg	Echelon II
1 mg	0.0028 mg	Echelon II

Mass – Avoirdupois

Range	*Best Uncertainty (±)* [note 1]	*Remarks*
50 lb	25 mg	Echelon II
25 lb	16 mg	Echelon II
20 lb	8.0 mg	Echelon II
10 lb	4.3 mg	Echelon II
5 lb	2.7 mg	Echelon II
3 lb	2.2 mg	Echelon II
2 lb	0.092 mg	Echelon II
1 lb	0.071 mg	Echelon II
0.5 lb	0.065 mg	Echelon II
0.3 lb	0.036 mg	Echelon II
0.2 lb	0.036 mg	Echelon II
0.1 lb	0.036 mg	Echelon II
0.05 lb	0.030 mg	Echelon II

2011-01-01 through 2011-12-31

Effective dates

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CALIBRATION LABORATORIES **NVLAP LAB CODE 200464-0**

Scope Revised: 2011-06-15

Range	*Best Uncertainty (±)* [note 1]	*Remarks*
0.03 lb	0.014 mg	Echelon II
0.02 lb	0.011 mg	Echelon II
0.01 lb	0.0090 mg	Echelon II
0.005 lb	0.0068 mg	Echelon II
0.003 lb	0.0065 mg	Echelon II
0.002 lb	0.0034 mg	Echelon II
0.001 lb	0.0034 mg	Echelon II
0.0005 lb	0.0034 mg	Echelon II
0.0003 lb	0.0031 mg	Echelon II
0.0002 lb	0.0031 mg	Echelon II
0.0001 lb	0.0034 mg	Echelon II
0.00005 lb	0.0034 mg	Echelon II
0.00003 lb	0.0031 mg	Echelon II
0.00002 lb	0.0031 mg	Echelon II
0.00001 lb	0.0034 mg	Echelon II
0.000005 lb	0.0034 mg	Echelon II
0.000003 lb	0.0031 mg	Echelon II
0.000002 lb	0.0031 mg	Echelon II
0.000001 lb	0.0031 mg	Echelon II

Mass – Metric

Range	*Best Uncertainty (±)* [note 1]	*Remarks*
1000 kg	15 g	Echelon III
500 kg	6 g	Echelon III
200 kg	5 g	Echelon III
100 kg	2.5 g	Echelon III
50 kg	0.32 g	Echelon III
30 kg	0.32 g	Echelon III
25 kg	0.22 g	Echelon III
20 kg	0.22 g	Echelon III
10 kg	0.10 g	Echelon III
5 kg	29 mg	Echelon III

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CALIBRATION LABORATORIES

NVLAP LAB CODE 200464-0
Scope Revised: 2011-06-15

Range	*Best Uncertainty (±)* [note 1]	*Remarks*
3 kg	35 mg	Echelon III
2 kg	33 mg	Echelon III
1 kg	32 mg	Echelon III
500 g	3.8 mg	Echelon III
300 g	3.6 mg	Echelon III
200 g	3.3 mg	Echelon III
100 g	3.3 mg	Echelon III
50 g	0.41 mg	Echelon III
30 g	0.36 mg	Echelon III
20 g	0.31 mg	Echelon III
10 g	0.27 mg	Echelon III
5 g	0.24 mg	Echelon III
3 g	0.049 mg	Echelon III
2 g	0.046 mg	Echelon III
1 g	0.036 mg	Echelon III
500 mg	0.032 mg	Echelon III
300 mg	0.032 mg	Echelon III
200 mg	0.032 mg	Echelon III
100 mg	0.032 mg	Echelon III
50 mg	0.022 mg	Echelon III
30 mg	0.022 mg	Echelon III
20 mg	0.022 mg	Echelon III
10 mg	0.022 mg	Echelon III
5 mg	0.022 mg	Echelon III
3 mg	0.022 mg	Echelon III
2 mg	0.022 mg	Echelon III
1 mg	0.022 mg	Echelon III

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CALIBRATION LABORATORIES

NVLAP LAB CODE 200464-0
Scope Revised: 2011-06-15

Mass – Avoirdupois

Range	*Best Uncertainty (±)* [note 1]	*Remarks*
2500 lb	16 g	Echelon III
2000 lb	10 g	Echelon III
1000 lb	6.4 g	Echelon III
500 lb	5.8 g	Echelon III
200 lb	2.5 g	Echelon III
100 lb	0.32 g	Echelon III
50 lb	0.22 g	Echelon III
25 lb	0.10 g	Echelon III
20 lb	0.10 g	Echelon III
10 lb	28 mg	Echelon III
5 lb	35 mg	Echelon III
3 lb	33 mg	Echelon III
2 lb	3.8 mg	Echelon III
1 lb	3.6 mg	Echelon III
0.5 lb	3.3 mg	Echelon III
0.3 lb	3.3 mg	Echelon III
0.2 lb	3.3 mg	Echelon III
0.1 lb	0.36 mg	Echelon III
0.05 lb	0.32 mg	Echelon III
0.03 lb	0.28 mg	Echelon III
0.02 lb	0.25 mg	Echelon III
0.01 lb	0.25 mg	Echelon III
0.005 lb	0.049 mg	Echelon III
0.003 lb	0.045 mg	Echelon III
0.002 lb	0.043 mg	Echelon III
0.001 lb	0.043 mg	Echelon III
8 oz	3.6 mg	Echelon III
4 oz	3.4 mg	Echelon III
2 oz	0.38 mg	Echelon III
1 oz	0.32 mg	Echelon III
1/2 oz	0.29 mg	Echelon III

2011-01-01 through 2011-12-31

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CALIBRATION LABORATORIES **NVLAP LAB CODE 200464-0**

Scope Revised: 2011-06-15

Range	*Best Uncertainty (±)* note 1	*Remarks*
1/4 oz	0.25 mg	Echelon III
1/8 oz	0.036 mg	Echelon III
1/16 oz	0.036 mg	Echelon III
1/32 oz	0.036 mg	Echelon III

NVLAP Code: 20/M12
Volume

Range	*Best Uncertainty (±)* note 1,3	*Remarks*
10 gal	0.0014 gal	Gravimetric
5 gal	0.00070 gal	Gravimetric
1 gal	0.00014 gal	Gravimetric
½ gal	4.5 min	Gravimetric
1 qt	3.7 min	Gravimetric
1 pt	1.8 min	Gravimetric
½ pt	1.6 min	Gravimetric
1 gill	1.0 min	Gravimetric
2 fl oz	0.68 min	Gravimetric
20 L	5.8 mL	Gravimetric
1 gal (5 L)	7.2 min	Transfer
½ gal (2 L)	6.6 min	Transfer
1 qt (1 L)	4.6 min	Transfer
1 pt (500 ml)	2.4 min	Transfer
1/2 pint (200 ml)	2.0 min	Transfer
1 gill (100 ml)	1.8 min	Transfer
150 gal	0.025 gal	Transfer
132 gal	0.022 gal	Transfer
100 gal	0.020 gal	Transfer
50 gal	0.011 gal	Transfer
25 gal	0.0080 gal	Transfer

2011-01-01 through 2011-12-31

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CALIBRATION LABORATORIES

NVLAP LAB CODE 200464-0
Scope Revised: 2011-06-15

Range	*Best Uncertainty (±)* [note 1,3]	*Remarks*
5 gal	0.0011 gal	Transfer
2 gal	0.00056 gal	Transfer
20 L	8.2 mL	Transfer – Metal Measures

1. Represents an expanded uncertainty using a coverage factor, $k = 2$, at an approximate level of confidence of 95 %.
2. The physical laboratory location where calibrations are performed is 7A Harriman Campus Road, Suite 122, Albany, NY 12206.
3. The unit "min" is referring to the U.S. customary unit minim which is $1/480^{th}$ of a U.S. customary ounce.

2011-01-01 through 2011-12-31

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