State of Wisconsin
Governor Tony Evers

Department of Agriculture, Trade and Consumer Protection
Bradley M. Pfaff, Secretary

Wisconsin Weights and Measures Laboratory

Calibration Certificate Statement of Uncertainty, Traceability, Limitations, and Conditions

for calibration work performed for:

FOX VALLEY INDUSTRIAL SCALE, INC.

109 FORD DR STE D
NEW LENOX
IL
60451-3669
(815) 463-1209

Date Received:	3/21/2019	State Test No.:	W19-101
Date of Calibration:	3/21/2019		
Date Due:	3/21/2021		

Uncertainty Statement

For the weights used in this calibration, some components can be assessed through a Type A evaluation, the method for assessing uncertainty by a statistical analysis of measured quantity values obtained under defined measurement conditions. In addition, other components were assessed from a Type B evaluation of standard uncertainty, based on scientific judgement using all of the relevant information available. The combined standard uncertainties multiplied by those coverage factors specified in our standard calibration records, to provide an expanded uncertainty. This uncertainty defined an interval having a level of confidence of approximately 95 per cent, assuming normal distribution. The expanded uncertainty presented in this report is consistent with the ISO/IEC Guide to the Expression of Uncertainty in Measurement using the method Root Sum Squares (JCGM 100:2008).

Traceability Statement

The standards used by the Wisconsin State laboratory demonstrate an unbroken traceable chain to the International System of Units (SI) through the National Institute of Standards and Technology (NIST) and are part of a comprehensive measurement assurance program for ensuring continued accuracy and measurement traceability within the level of uncertainty reported by this laboratory. The laboratory maintains documented calibration intervals and uses documented procedures, all under the performance of trained personnel who demonstrate suitable measurement assurance for the information listed in this calibration report. The laboratory test number identified above is the unique report number to be used in referencing measurement traceability for the artifacts identified in this report. The State Standards are traceable to the SI unit for mass, the kilogram.

Limitations and Conditions Statement

These results relate only to the items calibrated in this report. Weights and weight carts are calibrated to NIST Handbook 105-1 (1990) and NIST Handbook 105-8 (2003), respectively, using NISTIR 6969: Selected Laboratory Measurement Practices and Procedures to Support Basic Mass Calibrations (2018). Class F tolerances are usable for testing commercial weighing devices in Wisconsin, following NIST Handbook 44, Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices. Weights calibrated to ASTM tolerance 7 by this laboratory cannot be used for testing commercial weighing devices in Wisconsin, by definition (See NIST Handbook 105-1, Specification 1). Weight calibrated by ASTM Standard Specification E617-18 are not checked for density [Stainless steel weights are assumed 8.0 g/cm3], or for magnetism.

The following standard(s) were used: 1000 lb: 392

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Paul Masterson

Paul Masterson, Chief Metrologist

Justin Lien, Laboratory Director

3601 Galleon Run • Madison, WI 53718 • (608) 224-4910

State of Wisconsin
Governor Tony Evers

Department of Agriculture, Trade and Consumer Protection
Bradley M. Pfaff, Secretary

Wisconsin Weights and Measures Laboratory

Calibration Certificate

Date Received: March 21, 2019
Date of Calibration: March 21, 2019
Date Due: March 21, 2021

Customer: FOX VALLEY INDUSTRIAL SCALE, INC.
Address: 109 FORD DR STE D
NEW LENOX, IL 60451-3669
Contact: JAMES HOLMAN
Phone: (815) 463-1209
PO Number: UC047

State Test No.: W19-101
Item(s) Submitted: Cast Weight
Manufacturer: Rice Lake
Condition: Good
Tolerance Class: NIST HB 105-1 (1990), Class F
Kit Serial #:
Balance ID#: 10
Procedure Used: NISTIR 6969 (2018), SOP 8
Temperature: 20.8 °C
Relative Humidity: 49.8 %
Pressure: 739.2 mmHg

Nominal Mass	Mass Unit	Serial No.	Conventional Mass Correction (mg)		NIST HB 105-1 (1990), Class F		Uncertainty (mg)	Coverage Factor (k)
			As Found	As Left	As Found	As Left		
1000	lb	105	22,540	22,540	Pass	Pass	5600	2.01
1000	lb	110	20,040	20,040	Pass	Pass	5600	2.01
1000	lb	101	22,340	22,340	Pass	Pass	5600	2.01
1000	lb	109	23,540	23,540	Pass	Pass	5600	2.01
1000	lb	104	21,940	21,940	Pass	Pass	5600	2.01
1000	lb	107	18,640	18,640	Pass	Pass	5600	2.01
1000	lb	111	33,240	33,240	Pass	Pass	5600	2.01
1000	lb	102	14,340	14,340	Pass	Pass	5600	2.01
1000	lb	100	15,140	15,140	Pass	Pass	5600	2.01
1000	lb	108	16,740	16,740	Pass	Pass	5600	2.01
1000	lb	106	26,240	26,240	Pass	Pass	5600	2.01
1000	lb	103	19,540	19,540	Pass	Pass	5600	2.01

The following standard(s) were used: 1000 lb: 392

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Calibration Certificate
Statement of
Uncertainty, Traceability, Limitations, and Conditions

for calibration work performed for:

FOX VALLEY INDUSTRIAL SCALE, INC.

109 FORD DR STE D
NEW LENOX
IL
60451-3669
(815) 463-1209

Date Received:	3/21/2019	State Test No.:	W19-101
Date of Calibration:	3/21/2019		
Date Due:	3/21/2021		

Uncertainty Statement

For the weights used in this calibration, some components can be assessed through a Type A evaluation, the method for assessing uncertainty by a statistical analysis of measured quantity values obtained under defined measurement conditions. In addition, other components were assessed from a Type B evaluation of standard uncertainty, based on scientific judgement using all of the relevant information available. The combined standard uncertainties multiplied by those coverage factors specified in our standard calibration records, to provide an expanded uncertainty. This uncertainty defined an interval having a level of confidence of approximately 95 per cent, assuming normal distribution. The expanded uncertainty presented in this report is consistent with the ISO/IEC Guide to the Expression of Uncertainty in Measurement using the method Root Sum Squares (JCGM 100:2008).

Traceability Statement

The standards used by the Wisconsin State laboratory demonstrate an unbroken traceable chain to the International System of Units (SI) through the National Institute of Standards and Technology (NIST) and are part of a comprehensive measurement assurance program for ensuring continued accuracy and measurement traceability within the level of uncertainty reported by this laboratory. The laboratory maintains documented calibration intervals and uses documented procedures, all under the performance of trained personnel who demonstrate suitable measurement assurance for the information listed in this calibration report. The laboratory test number identified above is the unique report number to be used in referencing measurement traceability for the artifacts identified in this report. The State Standards are traceable to the SI unit for mass, the kilogram.

Limitations and Conditions Statement

These results relate only to the items calibrated in this report. Weights and weight carts are calibrated to NIST Handbook 105-1 (1990) and NIST Handbook 105-8 (2003), respectively, using NISTIR 6969: Selected Laboratory Measurement Practices and Procedures to Support Basic Mass Calibrations (2018). Class F tolerances are usable for testing commercial weighing devices in Wisconsin, following NIST Handbook 44, Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices. Weights calibrated to ASTM tolerance 7 by this laboratory cannot be used for testing commercial weighing devices in Wisconsin, by definition (See NIST Handbook 105-1, Specification 1). Weight calibrated by ASTM Standard Specification E617-18 are not checked for density [Stainless steel weights are assumed 8.0 g/cm3], or for magnetism.

The following standard(s) were used: 25 lb: W25LB

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Wisconsin Weights and Measures Laboratory

Calibration Certificate

Date Received: March 21, 2019
Date of Calibration: March 21, 2019
Date Due: March 21, 2021

Customer: FOX VALLEY INDUSTRIAL SCALE, INC.
Address: 109 FORD DR STE D
NEW LENOX, IL 60451-3669
Contact: JAMES HOLMAN
Phone: (815) 463-1209
PO Number: UC047

State Test No.: W19-101
Item(s) Submitted: Cast Weight
Manufacturer: Fairbanks
Condition: Good
Tolerance Class: NIST HB 105-1 (1990), Class F
Kit Serial #:
Balance ID#: 8
Procedure Used: NISTIR 6969 (2018), SOP 8
Temperature: 20.4 °C
Relative Humidity: 44.5 %
Pressure: 739.9 mmHg

Nominal Mass	Mass Unit	Serial No.	Conventional Mass Correction (mg)		NIST HB 105-1 (1990), Class F		Uncertainty (mg)	Coverage Factor (*k*)
			As Found	As Left	As Found	As Left		
25	lb	00	780	780	Pass	Pass	130	2.02
25	lb	3	2,950	200	*Fail*	Pass	130	2.02

The following standard(s) were used: 25 lb: W25LB

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Calibration Certificate
Statement of
Uncertainty, Traceability, Limitations, and Conditions

for calibration work performed for:

FOX VALLEY INDUSTRIAL SCALE, INC.

109 FORD DR STE D
NEW LENOX
IL
60451-3669
(815) 463-1209

Date Received:	3/21/2019	State Test No.:	W19-101
Date of Calibration:	3/21/2019		
Date Due:			

Uncertainty Statement

For the weights used in this calibration, some components can be assessed through a Type A evaluation, the method for assessing uncertainty by a statistical analysis of measured quantity values obtained under defined measurement conditions. In addition, other components were assessed from a Type B evaluation of standard uncertainty, based on scientific judgement using all of the relevant information available. The combined standard uncertainties multiplied by those coverage factors specified in our standard calibration records, to provide an expanded uncertainty. This uncertainty defined an interval having a level of confidence of approximately 95 per cent, assuming normal distribution. The expanded uncertainty presented in this report is consistent with the ISO/IEC Guide to the Expression of Uncertainty in Measurement using the method Root Sum Squares (JCGM 100:2008).

Traceability Statement

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Limitations and Conditions Statement

These results relate only to the items calibrated in this report. Weights and weight carts are calibrated to NIST Handbook 105-1 (1990) and NIST Handbook 105-8 (2003), respectively, using NISTIR 6969: Selected Laboratory Measurement Practices and Procedures to Support Basic Mass Calibrations (2018). Class F tolerances are usable for testing commercial weighing devices in Wisconsin, following NIST Handbook 44, Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices. Weights calibrated to ASTM tolerance 7 by this laboratory cannot be used for testing commercial weighing devices in Wisconsin, by definition (See NIST Handbook 105-1, Specification 1). Weight calibrated by ASTM Standard Specification E617-18 are not checked for density [Stainless steel weights are assumed 8.0 g/cm3], or for magnetism.

The following standard(s) were used: 2500 lb: 18987-10, 500 lb: 90499

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Calibration Certificate

Date Recieved: March 21, 2019
Date of Calibration: March 21, 2019

Customer: FOX VALLEY INDUSTRIAL SCALE, INC.
Address: 109 FORD DR STE D
NEW LENOX, IL 60451-3669
Contact: JAMES HOLMAN
Phone: (815) 463-1209
PO Number: UC047

State Test No.: W19-101
Item(s) Submitted: Weight Cart
Manufacturer: Dunbar
Condition: Good
Tolerance Class: NIST HB 105-8 (2003)
Kit Serial #:
Balance ID#: 11
Procedure Used: NISTIR 6969 (2018), SOP 33
Temperature: 20.8 °C
Relative Humidity: 47.9 %
Pressure: 738.9 mmHg

Nominal Mass	Mass Unit	Serial No.	Conventional Mass Correction (lb)		NIST 105-8 Tolerance:		Uncertainty (lb)	Coverage Factor (k)
			As Found	As Left	As Found	As Left		
3000	lb	082108C	-2.65	0.03	Fail	Pass	0.13	2.12

The following standard(s) were used: 2500 lb: 18987-10, 500 lb: 90499

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for calibration work performed for:

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Date Received:	3/21/2019	State Test No.:	W19-101
Date of Calibration:	3/21/2019		
Date Due:	3/21/2021		

Uncertainty Statement

For the weights used in this calibration, some components can be assessed through a Type A evaluation, the method for assessing uncertainty by a statistical analysis of measured quantity values obtained under defined measurement conditions. In addition, other components were assessed from a Type B evaluation of standard uncertainty, based on scientific judgement using all of the relevant information available. The combined standard uncertainties multiplied by those coverage factors specified in our standard calibration records, to provide an expanded uncertainty. This uncertainty defined an interval having a level of confidence of approximately 95 per cent, assuming normal distribution. The expanded uncertainty presented in this report is consistent with the ISO/IEC Guide to the Expression of Uncertainty in Measurement using the method Root Sum Squares (JCGM 100:2008).

Traceability Statement

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Limitations and Conditions Statement

These results relate only to the items calibrated in this report. Weights and weight carts are calibrated to NIST Handbook 105-1 (1990) and NIST Handbook 105-8 (2003), respectively, using NISTIR 6969: Selected Laboratory Measurement Practices and Procedures to Support Basic Mass Calibrations (2018). Class F tolerances are usable for testing commercial weighing devices in Wisconsin, following NIST Handbook 44, Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices. Weights calibrated to ASTM tolerance 7 by this laboratory cannot be used for testing commercial weighing devices in Wisconsin, by definition (See NIST Handbook 105-1, Specification 1). Weight calibrated by ASTM Standard Specification E617-18 are not checked for density [Stainless steel weights are assumed 8.0 g/cm3], or for magnetism.

The following standard(s) were used: Metric Weight Set WS-2

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Wisconsin Weights and Measures Laboratory

Calibration Certificate

Date Received: March 21, 2019
Date of Calibration: March 21, 2019
Date Due: March 21, 2021

Customer: FOX VALLEY INDUSTRIAL SCALE, INC.
Address: 109 FORD DR STE D
NEW LENOX, IL 60451-3669
Contact: JAMES HOLMAN
Phone: (815) 463-1209
PO Number: UC047

State Test No.: W19-101
Item(s) Submitted: Weight Kit
Manufacturer: Rice Lake
Condition: Good
Tolerance Class: NIST HB 105-1 (1990), Class F
Kit Serial #: 6W2C
Balance ID#: 3,6,7
Procedure Used: NISTIR 6969 (2018), SOP 8
Temperature: 22.5 °C
Relative Humidity: 47.1 %
Pressure: 739.5 mmHg

Nominal Mass	Mass Unit	Serial No.	Conventional Mass Correction (mg) As Found	Conventional Mass Correction (mg) As Left	NIST HB 105-1 (1990), Class F As Found	NIST HB 105-1 (1990), Class F As Left	Uncertainty (mg)	Coverage Factor (k)
2000	g		68	68	Pass	Pass	24	2.04
1000	g		31	31	Pass	Pass	12	2.04
500	g		17.8	17.8	Pass	Pass	8.5	2.04
200	g		10.2	10.2	Pass	Pass	4.8	2.04
200	g	*	10.0	10.0	Pass	Pass	4.8	2.04
100	g		6.6	6.6	Pass	Pass	2.4	2.04
50	g		3.5	3.5	Pass	Pass	1.2	2.04
20	g		1.07	1.07	Pass	Pass	0.48	2.04
20	g	*	1.13	1.13	Pass	Pass	0.48	2.04
10	g		0.49	0.49	Pass	Pass	0.24	2.04
5	g		0.67	0.67	Pass	Pass	0.18	2.04
2	g		0.52	0.52	Pass	Pass	0.14	2.04
2	g	*	0.42	0.42	Pass	Pass	0.14	2.04
1	g		0.17	0.17	Pass	Pass	0.11	2.04
0.5	g		0.351	0.351	Pass	Pass	0.087	2.06
0.2	g		0.270	0.270	Pass	Pass	0.065	2.06
0.2	g	*	0.275	0.275	Pass	Pass	0.065	2.06
0.1	g		0.174	0.174	Pass	Pass	0.052	2.06
0.05	g		0.113	0.113	Pass	Pass	0.042	2.06
0.02	g	*	0.103	0.103	Pass	Pass	0.032	2.06
0.01	g		0.082	0.082	Pass	Pass	0.026	2.06
0.005	g		0.071	0.071	Pass	Pass	0.021	2.06

The following standard(s) were used: Metric Weight Set WS-2

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Justin Lien, Laboratory Director

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Calibration Certificate
Statement of
Uncertainty, Traceability, Limitations, and Conditions

for calibration work performed for:

FOX VALLEY INDUSTRIAL SCALE, INC.

109 FORD DR STE D
NEW LENOX
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60451-3669
(815) 463-1209

Date Received:	3/21/2019	State Test No.:	W19-101
Date of Calibration:	3/21/2019		
Date Due:	3/21/2021		

Uncertainty Statement

For the weights used in this calibration, some components can be assessed through a Type A evaluation, the method for assessing uncertainty by a statistical analysis of measured quantity values obtained under defined measurement conditions. In addition, other components were assessed from a Type B evaluation of standard uncertainty, based on scientific judgement using all of the relevant information available. The combined standard uncertainties multiplied by those coverage factors specified in our standard calibration records, to provide an expanded uncertainty. This uncertainty defined an interval having a level of confidence of approximately 95 per cent, assuming normal distribution. The expanded uncertainty presented in this report is consistent with the ISO/IEC Guide to the Expression of Uncertainty in Measurement using the method Root Sum Squares (JCGM 100:2008).

Traceability Statement

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Limitations and Conditions Statement

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The following standard(s) were used: Metric Weight Set WS-2

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Calibration Certificate

Date Received:	March 21, 2019
Date of Calibration:	March 21, 2019
Date Due:	March 21, 2021

Customer:	FOX VALLEY INDUSTRIAL SCALE, INC.
Address:	109 FORD DR STE D
	NEW LENOX, IL 60451-3669
Contact:	JAMES HOLMAN
Phone:	(815) 463-1209
PO Number:	UC047

State Test No.:	W19-101
Item(s) Submitted:	Weight Kit
Manufacturer:	Rice Lake
Condition:	Good
Tolerance Class:	NIST HB 105-1 (1990), Class F
Kit Serial #:	38C7
Balance ID#:	7
Procedure Used:	NISTIR 6969 (2018), SOP 8
Temperature:	22.5 °C
Relative Humidity:	46.8 %
Pressure:	739.4 mmHg

Nominal Mass	Mass Unit	Serial No.	Conventional Mass Correction (mg)		NIST HB 105-1 (1990), Class F		Uncertainty (mg)	Coverage Factor (k)
			As Found	As Left	As Found	As Left		
2000	g		74	74	Pass	Pass	24	2.04
2000	g	*	65	65	Pass	Pass	24	2.04
1000	g		25	25	Pass	Pass	12	2.04

The following standard(s) were used: Metric Weight Set WS-2

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Date Received:	3/21/2019	State Test No.:	W19-101
Date of Calibration:	3/21/2019		
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Uncertainty Statement

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The following standard(s) were used: Metric Weight Set WS-2

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Calibration Certificate

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Customer: FOX VALLEY INDUSTRIAL SCALE, INC.
Address: 109 FORD DR STE D
NEW LENOX, IL 60451-3669
Contact: JAMES HOLMAN
Phone: (815) 463-1209
PO Number: UC047

State Test No.: W19-101
Item(s) Submitted: Weight Kit
Manufacturer: Rice Lake
Condition: Good
Tolerance Class: NIST HB 105-1 (1990), Class F
Kit Serial #: 2TJ
Balance ID#: 6&7
Procedure Used: NISTIR 6969 (2018), SOP 8
Temperature: 22.5 °C
Relative Humidity: 44.0 %
Pressure: 739.9 mmHg

Nominal Mass	Mass Unit	Serial No.	Conventional Mass Correction (mg)		NIST HB 105-1 (1990), Class F		Uncertainty (mg)	Coverage Factor (k)
			As Found	As Left	As Found	As Left		
2000	g	2TJY	101	101	Pass	Pass	24	2.04
1000	g	2TJW	46	46	Pass	Pass	12	2.04
500	g	2TJU	18.8	18.8	Pass	Pass	8.5	2.04
200	g	M2	9.8	9.8	Pass	Pass	4.8	2.04
100	g	2TJS	4.5	4.5	Pass	Pass	2.4	2.04
50	g	2TJQ	4.4	4.4	Pass	Pass	1.2	2.04
20	g		0.90	0.90	Pass	Pass	0.48	2.04

The following standard(s) were used: Metric Weight Set WS-2

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Paul Masterson, Chief Metrologist

Justin Lien, Laboratory Director

3601 Galleon Run • Madison, WI 53718 • (608) 224-4910

State of Wisconsin
Governor Tony Evers

Department of Agriculture, Trade and Consumer Protection
Bradley M. Pfaff, Secretary

Wisconsin Weights and Measures Laboratory

Calibration Certificate
Statement of
Uncertainty, Traceability, Limitations, and Conditions

for calibration work performed for:

FOX VALLEY INDUSTRIAL SCALE, INC.

109 FORD DR STE D
NEW LENOX
IL
60451-3669
(815) 463-1209

Date Received:	3/21/2019	State Test No.:	W19-101
Date of Calibration:	3/21/2019		
Date Due:	3/21/2021		

Uncertainty Statement

For the weights used in this calibration, some components can be assessed through a Type A evaluation, the method for assessing uncertainty by a statistical analysis of measured quantity values obtained under defined measurement conditions. In addition, other components were assessed from a Type B evaluation of standard uncertainty, based on scientific judgement using all of the relevant information available. The combined standard uncertainties multiplied by those coverage factors specified in our standard calibration records, to provide an expanded uncertainty. This uncertainty defined an interval having a level of confidence of approximately 95 per cent, assuming normal distribution. The expanded uncertainty presented in this report is consistent with the ISO/IEC Guide to the Expression of Uncertainty in Measurement using the method Root Sum Squares (JCGM 100:2008).

Traceability Statement

The standards used by the Wisconsin State laboratory demonstrate an unbroken traceable chain to the International System of Units (SI) through the National Institute of Standards and Technology (NIST) and are part of a comprehensive measurement assurance program for ensuring continued accuracy and measurement traceability within the level of uncertainty reported by this laboratory. The laboratory maintains documented calibration intervals and uses documented procedures, all under the performance of trained personnel who demonstrate suitable measurement assurance for the information listed in this calibration report. The laboratory test number identified above is the unique report number to be used in referencing measurement traceability for the artifacts identified in this report. The State Standards are traceable to the SI unit for mass, the kilogram.

Limitations and Conditions Statement

These results relate only to the items calibrated in this report. Weights and weight carts are calibrated to NIST Handbook 105-1 (1990) and NIST Handbook 105-8 (2003), respectively, using NISTIR 6969: Selected Laboratory Measurement Practices and Procedures to Support Basic Mass Calibrations (2018). Class F tolerances are usable for testing commercial weighing devices in Wisconsin, following NIST Handbook 44, Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices. Weights calibrated to ASTM tolerance 7 by this laboratory cannot be used for testing commercial weighing devices in Wisconsin, by definition (See NIST Handbook 105-1, Specification 1). Weight calibrated by ASTM Standard Specification E617-18 are not checked for density [Stainless steel weights are assumed 8.0 g/cm3], or for magnetism.

The following standard(s) were used: Avoirdupois Weight Set WS-1, Metric Weight Set WS-2

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Calibration Certificate

Date Received: March 21, 2019
Date of Calibration: March 21, 2019
Date Due: March 21, 2021

Customer: FOX VALLEY INDUSTRIAL SCALE, INC.
Address: 109 FORD DR STE D
NEW LENOX, IL 60451-3669
Contact: JAMES HOLMAN
Phone: (815) 463-1209
PO Number: UC047

State Test No.: W19-101
Item(s) Submitted: Weight Kit
Manufacturer: Rice Lake
Condition: Good
Tolerance Class: NIST HB 105-1 (1990), Class F
Kit Serial #: S909
Balance ID#: 3,6,7
Procedure Used: NISTIR 6969 (2018), SOP 8
Temperature: 22.4 °C
Relative Humidity: 44.7 %
Pressure: 739.8 mmHg

Nominal Mass	Mass Unit	Serial No.	Conventional Mass Correction (mg) As Found	As Left	NIST HB 105-1 (1990), Class F As Found	As Left	Uncertainty (mg)	Coverage Factor (*k*)
10	lb		140	140	Pass	Pass	54	2.03
10	lb	*	151	151	Pass	Pass	54	2.03
5	lb		32	32	Pass	Pass	28	2.03
1	lb	1	20.3	20.3	Pass	Pass	8.4	2.03
1	lb	2	0.3	0.3	Pass	Pass	8.4	2.03
1	lb	3	8.3	8.3	Pass	Pass	8.4	2.03
1	lb	4	31.3	31.3	Pass	Pass	8.4	2.03
1	lb	5	14.3	14.3	Pass	Pass	8.4	2.03
4	oz		5.8	5.8	Pass	Pass	2.8	2.03
4	oz	*	6.0	6.0	Pass	Pass	2.8	2.03
4	oz	**	5.9	5.9	Pass	Pass	2.8	2.03
1	oz		1.26	1.26	Pass	Pass	0.65	2.03
1	oz	*	1.68	1.68	Pass	Pass	0.65	2.03
1	oz	**	1.67	1.67	Pass	Pass	0.65	2.03
1/2	oz		0.75	0.75	Pass	Pass	0.34	2.03
1/2	oz	*	0.54	0.54	Pass	Pass	0.34	2.03
1/4	oz	*	0.60	0.60	Pass	Pass	0.21	2.03
100	g		5.5	5.5	Pass	Pass	2.4	2.04
50	g		3.4	3.4	Pass	Pass	1.2	2.04
20	g		1.03	1.03	Pass	Pass	0.48	2.04
10	g		0.58	0.58	Pass	Pass	0.24	2.04
5	g		0.46	0.46	Pass	Pass	0.18	2.04
2	g		0.38	0.38	Pass	Pass	0.14	2.04
2	g	*	0.66	0.66	Pass	Pass	0.14	2.04
1	g		0.17	0.17	Pass	Pass	0.11	2.04
0.5	g		0.004	0.004	Pass	Pass	0.087	2.06
0.2	g		0.260	0.260	Pass	Pass	0.065	2.06

The following standard(s) were used: Avoirdupois Weight Set WS-1, Metric Weight Set WS-2

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Justin Lien, Laboratory Director

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Wisconsin Weights and Measures Laboratory

Calibration Certificate

Date Received:	March 21, 2019
Date of Calibration:	March 21, 2019
Date Due:	March 21, 2021

Customer:	FOX VALLEY INDUSTRIAL SCALE, INC.
Address:	109 FORD DR STE D
	NEW LENOX, IL 60451-3669
Contact:	JAMES HOLMAN
Phone:	(815) 463-1209
PO Number:	UC047

State Test No.:	W19-101
Item(s) Submitted:	Weight Kit
Manufacturer:	Rice Lake
Condition:	Good
Tolerance Class:	NIST HB 105-1 (1990), Class F
Kit Serial #:	S909
Balance ID#:	3,6,7
Procedure Used:	NISTIR 6969 (2018), SOP 8
Temperature:	22.4 °C
Relative Humidity:	44.7 %
Pressure:	739.8 mmHg

Nominal Mass	Mass Unit	Serial No.	Conventional Mass Correction (mg)		NIST HB 105-1 (1990), Class F		Uncertainty (mg)	Coverage Factor (k)
			As Found	As Left	As Found	As Left		
0.2	g	*	0.240	0.240	Pass	Pass	0.065	2.06
0.01	g		0.039	0.039	Pass	Pass	0.026	2.06

The following standard(s) were used: Avoirdupois Weight Set WS-1, Metric Weight Set WS-2

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Date Received:	3/21/2019	State Test No.:	W19-101
Date of Calibration:	3/21/2019		
Date Due:	3/21/2021		

Uncertainty Statement

For the weights used in this calibration, some components can be assessed through a Type A evaluation, the method for assessing uncertainty by a statistical analysis of measured quantity values obtained under defined measurement conditions. In addition, other components were assessed from a Type B evaluation of standard uncertainty, based on scientific judgement using all of the relevant information available. The combined standard uncertainties multiplied by those coverage factors specified in our standard calibration records, to provide an expanded uncertainty. This uncertainty defined an interval having a level of confidence of approximately 95 per cent, assuming normal distribution. The expanded uncertainty presented in this report is consistent with the ISO/IEC Guide to the Expression of Uncertainty in Measurement using the method Root Sum Squares (JCGM 100:2008).

Traceability Statement

The standards used by the Wisconsin State laboratory demonstrate an unbroken traceable chain to the International System of Units (SI) through the National Institute of Standards and Technology (NIST) and are part of a comprehensive measurement assurance program for ensuring continued accuracy and measurement traceability within the level of uncertainty reported by this laboratory. The laboratory maintains documented calibration intervals and uses documented procedures, all under the performance of trained personnel who demonstrate suitable measurement assurance for the information listed in this calibration report. The laboratory test number identified above is the unique report number to be used in referencing measurement traceability for the artifacts identified in this report. The State Standards are traceable to the SI unit for mass, the kilogram.

Limitations and Conditions Statement

These results relate only to the items calibrated in this report. Weights and weight carts are calibrated to NIST Handbook 105-1 (1990) and NIST Handbook 105-8 (2003), respectively, using NISTIR 6969: Selected Laboratory Measurement Practices and Procedures to Support Basic Mass Calibrations (2018). Class F tolerances are usable for testing commercial weighing devices in Wisconsin, following NIST Handbook 44, Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices. Weights calibrated to ASTM tolerance 7 by this laboratory cannot be used for testing commercial weighing devices in Wisconsin, by definition (See NIST Handbook 105-1, Specification 1). Weight calibrated by ASTM Standard Specification E617-18 are not checked for density [Stainless steel weights are assumed 8.0 g/cm3], or for magnetism.

The following standard(s) were used: Avoirdupois Weight Set WS-1, Metric Weight Set WS-2

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Calibration Certificate

Date Received: March 21, 2019
Date of Calibration: March 21, 2019
Date Due: March 21, 2021

Customer: FOX VALLEY INDUSTRIAL SCALE, INC.
Address: 109 FORD DR STE D
NEW LENOX, IL 60451-3669
Contact: JAMES HOLMAN
Phone: (815) 463-1209
PO Number: UC047

State Test No.: W19-101
Item(s) Submitted: Weight Kit
Manufacturer: Rice Lake
Condition: Good
Tolerance Class: NIST HB 105-1 (1990), Class F
Kit Serial #: S910
Balance ID#: 3,6,7
Procedure Used: NISTIR 6969 (2018), SOP 8
Temperature: 22.5 °C
Relative Humidity: 44.0 %
Pressure: 739.9 mmHg

Nominal Mass	Mass Unit	Serial No.	Conventional Mass Correction (mg) As Found	Conventional Mass Correction (mg) As Left	NIST HB 105-1 (1990), Class F As Found	NIST HB 105-1 (1990), Class F As Left	Uncertainty (mg)	Coverage Factor (*k*)
10	lb		137	137	Pass	Pass	54	2.03
10	lb	*	164	164	Pass	Pass	54	2.03
5	lb		57	57	Pass	Pass	28	2.03
1	lb		21.3	21.3	Pass	Pass	8.4	2.03
1	lb	*	15.3	15.3	Pass	Pass	8.4	2.03
1	lb	**	27.3	27.3	Pass	Pass	8.4	2.03
1	lb	***	19.3	19.3	Pass	Pass	8.4	2.03
1	lb	****	16.3	16.3	Pass	Pass	8.4	2.03
4	oz		6.7	6.7	Pass	Pass	2.8	2.03
4	oz	*	7.4	7.4	Pass	Pass	2.8	2.03
4	oz	**	11.4	11.4	Pass	Pass	2.8	2.03
1	oz		1.84	1.84	Pass	Pass	0.65	2.03
1	oz	*	1.68	1.68	Pass	Pass	0.65	2.03
1	oz	**	1.62	1.62	Pass	Pass	0.65	2.03
1/2	oz		0.52	0.52	Pass	Pass	0.34	2.03
1/2	oz		0.75	0.75	Pass	Pass	0.34	2.03
1/4	oz		0.52	0.52	Pass	Pass	0.21	2.03
1/4	oz	*	0.59	0.59	Pass	Pass	0.21	2.03
100	g		4.2	4.2	Pass	Pass	2.4	2.04
50	g		2.6	2.6	Pass	Pass	1.2	2.04
20	g		0.46	0.46	Pass	Pass	0.48	2.04
20	g	*	0.56	0.56	Pass	Pass	0.48	2.04
10	g		0.49	0.49	Pass	Pass	0.24	2.04
5	g		0.77	0.77	Pass	Pass	0.18	2.04
2	g		0.17	0.17	Pass	Pass	0.14	2.04
2	g	*	0.18	0.18	Pass	Pass	0.14	2.04

The following standard(s) were used: Avoirdupois Weight Set WS-1, Metric Weight Set WS-2

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Date of Calibration: March 21, 2019
Date Due: March 21, 2021

Customer: FOX VALLEY INDUSTRIAL SCALE, INC.
Address: 109 FORD DR STE D
NEW LENOX, IL 60451-3669
Contact: JAMES HOLMAN
Phone: (815) 463-1209
PO Number: UC047

State Test No.: W19-101
Item(s) Submitted: Weight Kit
Manufacturer: Rice Lake
Condition: Good
Tolerance Class: NIST HB 105-1 (1990), Class F
Kit Serial #: S910
Balance ID#: 3,6,7
Procedure Used: NISTIR 6969 (2018), SOP 8
Temperature: 22.5 °C
Relative Humidity: 44.0 %
Pressure: 739.9 mmHg

Nominal Mass	Mass Unit	Serial No.	Conventional Mass Correction (mg)		NIST HB 105-1 (1990), Class F		Uncertainty (mg)	Coverage Factor (*k*)
			As Found	As Left	As Found	As Left		
1	g		0.30	0.30	Pass	Pass	0.11	2.04
0.5	g		0.243	0.243	Pass	Pass	0.087	2.06
0.2	g		0.136	0.136	Pass	Pass	0.065	2.06
0.2	g		0.171	0.171	Pass	Pass	0.065	2.06
0.05	g		0.156	0.156	Pass	Pass	0.042	2.06
0.002	g		0.015	0.015	Pass	Pass	0.015	2.06

The following standard(s) were used: Avoirdupois Weight Set WS-1, Metric Weight Set WS-2

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The following standard(s) were used: 8 oz: (0.5 lb W1)

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Date Due: March 21, 2021

Customer: FOX VALLEY INDUSTRIAL SCALE, INC.
Address: 109 FORD DR STE D
NEW LENOX, IL 60451-3669
Contact: JAMES HOLMAN
Phone: (815) 463-1209
PO Number: UC047

State Test No.: W19-101
Item(s) Submitted: Weight Kit
Manufacturer: Rice Lake
Condition: Good
Tolerance Class: NIST HB 105-1 (1990), Class F
Kit Serial #: 082108C
Balance ID#: 7
Procedure Used: NISTIR 6969 (2018), SOP 8
Temperature: 22.5 °C
Relative Humidity: 46.3 %
Pressure: 739.2 mmHg

Nominal Mass	Mass Unit	Serial No.	Conventional Mass Correction (mg)		NIST HB 105-1 (1990), Class F		Uncertainty (mg)	Coverage Factor (*k*)
			As Found	As Left	As Found	As Left		
8	oz	1	13.3	13.3	Pass	Pass	5.5	2.03
8	oz	2	6.3	6.3	Pass	Pass	5.5	2.03
8	oz	3	11.3	11.3	Pass	Pass	5.5	2.03
8	oz	4	19.3	19.3	Pass	Pass	5.5	2.03
8	oz	5	15.3	15.3	Pass	Pass	5.5	2.03
8	oz	6	7.3	7.3	Pass	Pass	5.5	2.03
8	oz	7	14.3	14.3	Pass	Pass	5.5	2.03
8	oz	8	17.3	17.3	Pass	Pass	5.5	2.03
8	oz	9	13.3	13.3	Pass	Pass	5.5	2.03
8	oz	10	13.3	13.3	Pass	Pass	5.5	2.03
8	oz	11	8.3	8.3	Pass	Pass	5.5	2.03
8	oz	12	15.3	15.3	Pass	Pass	5.5	2.03

The following standard(s) were used: 8 oz: (0.5 lb W1)

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