



**APPLICATION FOR REGISTRATION AS A REGISTERED SERVICE COMPANY**

Public Service Commission  
SFN 61277 (2/2014)

TYPE OR PRINT - AN INCOMPLETE OR ILLEGIBLE APPLICATION WILL BE REJECTED

Name of Company <i>Lake Country Scale Works, Inc.</i>	Email Address <i>ksudauge@gmail.com</i>	Application Date <i>12-30-15</i>	
Mailing Address <i>2511-60th St, NW</i>	City <i>Willmar</i>	State <i>MN</i>	Zip Code <i>56201</i>
Telephone Number <i>320-235-6863</i>	Cell Phone Number <i>320-979-0214</i>	Fax Number <i>320-235-2194</i>	

Select below all device types your company will certify:

Scales (include maximum capacity, if applicable)	Liquid (include maximum flow rate, if applicable)
<input checked="" type="checkbox"/> 1. Rail <input checked="" type="checkbox"/> 2. Truck <input checked="" type="checkbox"/> 3. Livestock <input checked="" type="checkbox"/> 4. Hopper: Max. Capacity: <i>250,000#</i> <input checked="" type="checkbox"/> 5. Belt <input checked="" type="checkbox"/> 6. Over 30 lbs.: Max. Capacity: <i>25,000#</i> <input checked="" type="checkbox"/> 7. 30 lbs. or less <input type="checkbox"/> 8. Class II (indicate on your calibration report which weight kit is Class II certified) <input type="checkbox"/> 9. Other: Please List:	<input type="checkbox"/> 1. Retail Fuel (less than 20 gal. per minute) <input type="checkbox"/> 2. High Flow Retail Fuel (20 gal. per minute or greater) <input type="checkbox"/> 3. Vehicle Tank: Max. Flow Rate: _____ <input type="checkbox"/> 4. Stationary Bulk (fuel or oil): Max. Flow Rate: _____ <input type="checkbox"/> 5. LPG <input type="checkbox"/> 6. Stationary LPG <input type="checkbox"/> 7. Fertilizer: Max. Flow Rate: _____ <input type="checkbox"/> 8. Chemical <input type="checkbox"/> 9. Anhydrous <input type="checkbox"/> 10. Loading Rack <input type="checkbox"/> 11. Other: Please List:

List below all persons employed by your company as a North Dakota Registered Service Person and the device types they are registered to certify (attach a separate sheet to list additional employees):

Permit No.	Employee	Device Types Registered to Certify (list using device type numbers from above)
<i>e.g. 1001</i>	<i>e.g. John Doe</i>	<i>e.g. Scales - 2, 3, 6, 8; e.g. Liquid - 1, 2, 6</i>
<i>0430</i>	<i>Doug Martin - owner</i>	<i>1, 2, 3, 4, 6, 7</i>

Application for Registration as a Registered Service Company  
Page 2

List below all field standards (attach current calibration reports):

* (12) <del>(10)</del> - 1000# wts	* (2) <del>(1)</del> 30# gram kit
* (20) <del>(10)</del> - 500# wts	(1) 200# stainless steel basket
(10) - 50# wts	(1) 4000# weight cart
(2) 25# wts	* (40) - <del>50</del> 50# wts
(5) 5# wts	
(1) 1# wt	
(1) - 0.5# wt	
(11) - decimal wts from 0.001-0.2#	
(4) - Fraction wts - 1/202 to 4oz	

Additional Application Items (Initial where appropriate):

\* = added additional weights for 2017.

Standardized Test Report	<u>DM</u> Copy enclosed No change in report filed previously
Tested and Approved Sticker	<u>DM</u> Copy enclosed No change in sticker filed previously
Photocopy of Crimped Lead Wire Seal	<u>DM</u> Copy enclosed No change in crimped lead wire seal filed previously

Public Company Listing:

Include my company information on your registered service company list for public contact.

Yes     No

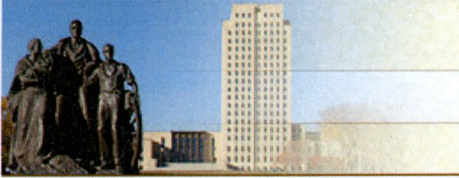
I am Douglas Manton, and have authority to represent this company.  
 By signing this application, I declare that I have examined this form and accompanying documentation, and to the best of my knowledge and belief, the facts stated and documentation provided is true, correct, and complete.

Douglas Manton  
Signature

Send Completed Application and Related Documents To:

Public Service Commission  
 600 E Boulevard Ave Dept 408  
 Bismarck ND 58505-0480  
 Telephone: (701) 328-2400  
 Fax: (701) 328-2410

North Dakota

nd.gov Official Portal for  
North Dakota State GovernmentNorth Dakota  
LEGENDARY

## SECRETARY OF STATE NORTH DAKOTA

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### LAKE COUNTRY SCALE WORKS, INC.

#### Corporation Details

**System ID:** 21369500**Phone:** (320) 235-6863**Type:** FOREIGN BUSINESS CORPORATION**Status:** Active & Good Standing**Original File Date:** 08/10/2005**Effective Date:** 08/10/2005**State of Origin:** Minnesota

#### Nature of Business

SELL, SERVICE, TEST SCALES

#### Principal Office

2511 60TH ST NW WILLMAR, MN 56201-9736

#### Registered Agent

**SEARCH COMPANY OF NORTH DAKOTA LLC**

1709 N 19TH ST STE 3

BISMARCK, ND 58501-2121

Established Date: Oct 10, 2008

#### Generate an Annual Report To File

To Generate a Annual Report form to be filed with the Secretary of State, select the appropriate year of the report you intend to file. This report does not contain details of a report previously filed with the Secretary of State. The annual report years reflected are an indication of the various report forms available in this site and is not an indication that an entity needs to file reports for all years. Missing years indicate that the forms for the missing year have not yet been deployed to the website, or have already been removed, and can be obtained by contacting the Secretary of State.

[2016](#) (generates a forms-fillable pdf in a new pop-up window)[Return to Search Results](#)[Contact Us](#)[Disclaimer](#) | [Privacy Policy](#)

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Will open a new window (pop-up).

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14305 SOUTHCROSS DRIVE #150  
 BURNSVILLE, MN 55306-7008  
 MN.GOV/COMMERCE/  
 651.539.1555 FAX 651.539.1553  
 AN EQUAL OPPORTUNITY EMPLOYER

Receipt Date: December 13, 2016  
 Cal. Date: December 14, 2016  
 Report Date: December 14, 2016

Report No.: 336912  
 Set Serial No.: None  
 Barcode: 017617

## Calibration Certificate

LAKE COUNTRY SCALE WORKS  
 2511 60TH ST NW  
 WILLMAR, MN 56201-8747  
 Contact: Doug Martin  
 Phone: 320-235-6863  
 PO Number: NONE  
 SOP: 8  
 Technician ID: 11

Item(s) Submitted: 4000 lb Weight Cart  
 Manufacturer: Lake Country  
 Weight Type: NA  
 Equipment ID: None  
 Condition: Fair  
 Temperature: 18.8 °C  
 Pressure: 742.2 mmHg  
 Relative Humidity: 53.2 %

Nominal Value	Serial No.	CM Correction (g)		NIST HB 105-8 Tolerance		k	U (g)
		As Found	As Left	As Found	As Left		
4000 lb		373	373	Meets	Meets	2.09	60.

The resulting tolerance class of the weight is determined by combining the correction of the weight and the uncertainty of the measurement. The corrections given above correlate to a conventional mass scale versus 8.0 g/cm<sup>3</sup> density and an air density of 1.2 mg/cm<sup>3</sup> at 20 °C. The items listed above have been calibrated using the Standards of the State of Minnesota which are currently in control. These standards are traceable to the SI through NIST. Calibration processes were monitored and found to be in control. All of the tolerances and specifications were evaluated according to NIST Handbook 105-8 (2003). Uncertainty calculations contain the components in NIST SOP 8 and conform to the ISO/IEC Guide to the Expression of Uncertainty in Measurement (2008), including coverage factors (*k*) calculated at the approximate 95.45 % confidence level. Results apply to items identified in this report only.

Pete Whobbe

Metrologist

Reviewed by:

Erik Alfvin

*Erik Alfvin*  
 Metrologist



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Receipt Date: December 13, 2016  
 Cal. Date: December 14, 2016  
 Report Date: December 14, 2016

Report No.: 336910  
 Set Serial No.: None  
 Barcode: 201289

## Calibration Certificate

LAKE COUNTRY SCALE WORKS  
 2511 60TH ST NW  
 WILLMAR, MN 56201-8747  
 Contact: Doug Martin  
 Phone: 320-235-6863  
 PO Number: NONE  
 SOP: 8  
 Technician ID: 11

Item(s) Submitted: Cast Cube Weights  
 Manufacturer: Rice Lake  
 Weight Type: II  
 Equipment ID: None  
 Condition: Good  
 Temperature: 18.5 °C  
 Pressure: 741.5 mmHg  
 Relative Humidity: 52.1 %

Nominal Value	Serial No.	CM Correction (g)		NIST HB105-1 Class		k	U (g)
		As Found	As Left	As Found	As Left		
1000 lb		-9.2	-9.2	F	F	2.01	2.0
1000 lb		-8.2	-8.2	F	F	2.01	2.0
1000 lb		0.8	0.8	F	F	2.01	2.0
1000 lb		-7.2	-7.2	F	F	2.01	2.0
1000 lb		-27.2	-27.2	F	F	2.01	2.0
1000 lb		17.8	17.8	F	F	2.01	2.0
1000 lb		15.8	15.8	F	F	2.01	2.0
1000 lb		12.8	12.8	F	F	2.01	2.0

The resulting tolerance class of the weight is determined by combining the correction of the weight and the uncertainty of the measurement. The corrections given above correlate to a conventional mass scale versus 8.0 g/cm<sup>3</sup> density and an air density of 1.2 mg/cm<sup>3</sup> at 20 °C. The items listed above have been calibrated using the Standards of the State of Minnesota which are currently in control. These standards are traceable to the SI through NIST. Calibration processes were monitored and found to be in control. All of the tolerances and specifications were evaluated according to NIST Handbook 105-1 (1990). Uncertainty calculations contain the components in NIST SOP 8 and conform to the ISO/IEC Guide to the Expression of Uncertainty in Measurement (2008), including coverage factors (k) calculated at the approximate 95.45 % confidence level. Results apply to items identified in this report only.

Pete Whobbe

*Pete Whobbe*  
 Metrologist

Reviewed by:

Erik Alfvin

*Erik Alfvin*  
 Metrologist



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Receipt Date: December 13, 2016  
Cal. Date: December 15, 2016  
Report Date: December 15, 2016

Report No.: 336915  
Set Serial No.: None & Individual  
Barcode: 201998

## Calibration Certificate

LAKE COUNTRY SCALE WORKS  
2511 60TH ST NW  
WILLMAR, MN 56201-8747  
Contact: Doug Martin  
Phone: 320-235-6863  
PO Number: NONE  
SOP: 8  
Technician ID: 11

Item(s) Submitted: Cast Cube Weights  
Manufacturer: Troemner, Iowa, Rice Lake  
Weight Type: II  
Equipment ID: Trailer Set  
Condition: Good  
Temperature: 18.4 °C  
Pressure: 747.5 mmHg  
Relative Humidity: 51.8 %

Nominal Value	Serial No.	CM Correction (g)		NIST HB105-1 Class		k	U (g)
		As Found	As Left	As Found	As Left		
1000 lb		127.8	3.8	*	F	2.01	2.0
1000 lb	116	-138.2	0.8	*	F	2.01	2.0
1000 lb	3541	10.8	10.8	F	F	2.01	2.0
1000 lb	3543	-64.2	3.8	*	F	2.01	2.0
500 lb		-12.0	-12.0	F	F	2.01	1.6
500 lb		-33.0	2.5	*	F	2.01	1.6
500 lb		35.9	3.8	*	F	2.01	1.6
500 lb		-38.1	0.2	*	F	2.01	1.6
500 lb		-13.7	-13.7	F	F	2.01	1.6
500 lb		30.8	-1.2	*	F	2.01	1.6
500 lb		51.6	10.2	*	F	2.01	1.6
500 lb		39.2	3.8	*	F	2.01	1.6

\* Weight(s) as found exceed NIST HB105-1 Class F tolerance.

The resulting tolerance class of the weight is determined by combining the correction of the weight and the uncertainty of the measurement. The corrections given above correlate to a conventional mass scale versus 8.0 g/cm<sup>3</sup> density and an air density of 1.2 mg/cm<sup>3</sup> at 20 °C. The items listed above have been calibrated using the Standards of the State of Minnesota which are currently in control. These standards are traceable to the SI through NIST. Calibration processes were monitored and found to be in control. All of the tolerances and specifications were evaluated according to NIST Handbook 105-1 (1990). Uncertainty calculations contain the components in NIST SOP 8 and conform to the ISO/IEC Guide to the Expression of Uncertainty in Measurement (2008), including coverage factors (*k*) calculated at the approximate 95.45 % confidence level. Results apply to items identified in this report only.

Pete Whebbe

Metrologist

Reviewed by:

Mark Nicollet

Quality Manager



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Receipt Date: December 13, 2016  
 Cal. Date: December 14, 2016  
 Report Date: December 14, 2016

Report No.: 336911  
 Set Serial No.: None  
 Barcode: 201290

## Calibration Certificate

LAKE COUNTRY SCALE WORKS  
 2511 60TH ST NW  
 WILLMAR, MN 56201-8747  
 Contact: Doug Martin  
 Phone: 320-235-6863  
 PO Number: NONE  
 SOP: 8  
 Technician ID: 11

Item(s) Submitted: Cast Cube Weights  
 Manufacturer: Assorted  
 Weight Type: II  
 Equipment ID: None  
 Condition: Good  
 Temperature: 18.6 °C  
 Pressure: 741.5 mmHg  
 Relative Humidity: 51.2 %

Nominal Value	Serial No.	CM Correction (g)		NIST HB105-1 Class		k	U (g)
		As Found	As Left	As Found	As Left		
500 lb		-19.8	-19.8	F	F	2.01	1.6
500 lb		-12.1	-12.1	F	F	2.01	1.6
500 lb		-11.6	-11.6	F	F	2.01	1.6
500 lb		-23.0	4.1	*	F	2.01	1.6
500 lb		-10.2	-10.2	F	F	2.01	1.6
500 lb		1.3	1.3	F	F	2.01	1.6
500 lb		-15.8	-15.8	F	F	2.01	1.6
500 lb		1.7	1.7	F	F	2.01	1.6
500 lb		-16.7	-16.7	F	F	2.01	1.6
500 lb		-20.0	-20.0	F	F	2.01	1.6
500 lb		-8.1	-8.1	F	F	2.01	1.6
500 lb		-13.2	-13.2	F	F	2.01	1.6

\* Weight(s) as found exceed NIST HB105-1 Class F tolerance.

The resulting tolerance class of the weight is determined by combining the correction of the weight and the uncertainty of the measurement. The corrections given above correlate to a conventional mass scale versus 8.0 g/cm<sup>3</sup> density and an air density of 1.2 mg/cm<sup>3</sup> at 20 °C. The items listed above have been calibrated using the Standards of the State of Minnesota which are currently in control. These standards are traceable to the SI through NIST. Calibration processes were monitored and found to be in control. All of the tolerances and specifications were evaluated according to NIST Handbook 105-1 (1990). Uncertainty calculations contain the components in NIST SOP 8 and conform to the ISO/IEC Guide to the Expression of Uncertainty in Measurement (2008), including coverage factors (k) calculated at the approximate 95.45 % confidence level. Results apply to items identified in this report only.

Pete Whebbe

*Pete Whebbe*  
 Metrologist

Reviewed by:

Erik Alfvin

*Erik Alfvin*  
 Metrologist



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Receipt Date: December 13, 2016  
Cal. Date: December 14, 2016  
Report Date: December 14, 2016

Report No.: 336913  
Set Serial No.: None  
Barcode: 201292

## Calibration Certificate

LAKE COUNTRY SCALE WORKS  
2511 60TH ST NW  
WILLMAR, MN 56201-8747  
Contact: Doug Martin  
Phone: 320-235-6863  
PO Number: NONE  
SOP: 8  
Technician ID: 11

Item(s) Submitted: 200 lb Weight Basket  
Manufacturer: Lake Country  
Weight Type: NA  
Equipment ID: None  
Condition: Good  
Temperature: 19.1 °C  
Pressure: 742.4 mmHg  
Relative Humidity: 50.2 %

Nominal Value	Serial No.	Assigned Value (lb)	Assigned Value (g)	k	U (g)
200 lb		199.9968	90717.04	2.11	0.96

The resulting tolerance class of the weight is determined by combining the correction of the weight and the uncertainty of the measurement. The corrections given above correlate to a conventional mass scale versus 8.0 g/cm<sup>3</sup> density and an air density of 1.2 mg/cm<sup>3</sup> at 20 °C. The items listed above have been calibrated using the Standards of the State of Minnesota which are currently in control. These standards are traceable to the SI through NIST. Calibration processes were monitored and found to be in control. All of the tolerances and specifications were evaluated according to ASTM E617 (2013). Uncertainty calculations contain the components in NIST SOP 8 and conform to the ISO/IEC Guide to the Expression of Uncertainty in Measurement (2008), including coverage factors (k) calculated at the approximate 95.45 % confidence level. Results apply to items identified in this report only.

Pete Whebbe

Metrologist



NVLAP LAB CODE 105003-0

Reviewed by:

Erik Alfvén

*Erik Alfvén*  
Metrologist

Page 1 of 1

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Receipt Date: December 13, 2016  
 Cal. Date: December 14, 2016  
 Report Date: January 5, 2017

Report No.: 336914  
 Set Serial No.: None  
 Barcode: None

## Calibration Certificate

LAKE COUNTRY SCALE WORKS  
 2511 60TH ST NW  
 WILLMAR, MN 56201-8747  
 Contact: Doug Martin  
 Phone: 320-235-6863  
 PO Number: None  
 SOP: 8  
 Technician ID: 18

Item(s) Submitted: 36 x 50 lb & 1 x 25 lb Hand Weights  
 Manufacturer: Rice Lake  
 Weight Type: II  
 Equipment ID: None  
 Condition: Good  
 Temperature: 18.9 °C  
 Pressure: 742.4 mmHg  
 Relative Humidity: 52.1 %

Nominal Value	Serial No.	CM Correction (mg)		NIST HB105-1 Class		k	U(mg)
		As Found	As Left	As Found	As Left		
50 lb		240	240	F	F	2.01	56
50 lb		1800	1800	F	F	2.01	56
50 lb		5370	1410	*	F	2.01	56
50 lb		4770	570	*	F	2.01	56
50 lb		5910	640	*	F	2.01	56
50 lb		5170	600	*	F	2.01	56
50 lb		5840	580	*	F	2.01	56
50 lb		3260	880	*	F	2.01	56
50 lb		3690	940	*	F	2.01	56
50 lb		3020	1040	*	F	2.01	56
50 lb		5560	830	*	F	2.01	56
50 lb		4430	1030	*	F	2.01	56
50 lb		3830	890	*	F	2.01	56
50 lb		5830	1160	*	F	2.01	56
50 lb		4910	580	*	F	2.01	56
50 lb		5350	1310	*	F	2.01	56
50 lb		5210	900	*	F	2.01	56
50 lb		5020	940	*	F	2.01	56
50 lb		2380	1400	*	F	2.01	56
50 lb		1430	1430	F	F	2.01	56
50 lb		2770	870	*	F	2.01	56
50 lb		6990	1150	*	F	2.01	56
50 lb		5730	80	*	F	2.01	56
50 lb		2800	160	*	F	2.01	56
50 lb		4050	550	*	F	2.01	56
50 lb		4120	660	*	F	2.01	56
50 lb		5840	170	*	F	2.01	56
50 lb		6040	250	*	F	2.01	56
50 lb		1700	1700	F	F	2.01	56
50 lb		1990	1990	F	F	2.01	56



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Receipt Date: December 13, 2016  
Cal. Date: December 14, 2016  
Report Date: January 5, 2017

Report No.: 336914  
Set Serial No.: None  
Barcode: None

Continued,

## Calibration Certificate

LAKE COUNTRY SCALE WORKS  
2511 60TH ST NW  
WILLMAR, MN 56201-8747  
Contact: Doug Martin  
Phone: 320-235-6863  
PO Number: None  
SOP: 8  
Technician ID: 18

Item(s) Submitted: 36 x 50 lb & 1 x 25 lb Hand Weights  
Manufacturer: Rice Lake  
Weight Type: II  
Equipment ID: None  
Condition: Good  
Temperature: 18.9 °C  
Pressure: 742.4 mmHg  
Relative Humidity: 52.1 %

Nominal Value	Serial No.	CM Correction (mg)		NIST HB105-1 Class		k	U (mg)
		As Found	As Left	As Found	As Left		
50 lb		3340	40	*	F	2.01	56
50 lb		2380	20	*	F	2.01	56
50 lb		1460	1460	F	F	2.01	56
50 lb		3540	110	*	F	2.01	56
50 lb		1280	1280	F	F	2.01	56
50 lb		2340	340	*	F	2.01	56
25 lb		2409	159	*	F	2.01	52

\* Weight(s) as found exceed NIST HB105-1 Class F tolerance.

The resulting tolerance class of the weight is determined by combining the correction of the weight and the uncertainty of the measurement. The corrections given above correlate to a conventional mass scale versus 8.0 g/cm<sup>3</sup> density and an air density of 1.2 mg/cm<sup>3</sup> at 20 °C. The items listed above have been calibrated using the Standards of the State of Minnesota which are currently in control. These standards are traceable to the SI through NIST. Calibration processes were monitored and found to be in control. All of the tolerances and specifications were evaluated according to NIST Handbook 105-1 (1990). Uncertainty calculations contain the components in NIST SOP 8 and conform to the ISO/IEC Guide to the Expression of Uncertainty in Measurement (2008), including coverage factors (k) calculated at the approximate 95.45 % confidence level. Results apply to items identified in this report only.

Benjamin FitzPatrick

*Benjamin FitzPatrick*  
Deputy Director

Page 2 of 2

Reviewed by:

Pete Whebbe

*Pete Whebbe*  
Metrologist



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Receipt Date: December 13, 2016  
 Cal. Date: December 19, 2016  
 Report Date: December 19, 2016

Report No.: 336916  
 Set Serial No.: None/Individual  
 Barcode: 201291

## Calibration Certificate

LAKE COUNTRY SCALE WORKS  
 2511 60TH ST NW  
 WILLMAR, MN 56201-8747  
 Contact: Doug Martin  
 Phone: 320-235-6863  
 PO Number: NONE  
 SOP: 8  
 Technician ID: 11

Item(s) Submitted: Cast Hand Weights  
 Manufacturer: Rice Lake  
 Weight Type: II  
 Equipment ID: None  
 Condition: Good  
 Temperature: 19.2 °C  
 Pressure: 743.5 mmHg  
 Relative Humidity: 53.8 %

Nominal Value	Serial No.	CM Correction (mg)		NIST HB105-1 Class		k	U (mg)
		As Found	As Left	As Found	As Left		
50 lb		4160	0	*	F	2.01	120
50 lb		1520	1520	F	F	2.01	120
50 lb		1080	1080	F	F	2.01	120
50 lb		2550	890	*	F	2.01	120
50 lb		2520	110	*	F	2.01	120
50 lb		840	840	F	F	2.01	120
50 lb		2890	120	*	F	2.01	120
50 lb	148	1420	1420	F	F	2.01	120
50 lb		1740	1740	F	F	2.01	120
50 lb		1040	1040	F	F	2.01	120
50 lb		-870	-870	F	F	2.01	120
50 lb	147	2870	-50	*	F	2.01	120
50 lb		910	910	F	F	2.01	120
50 lb		140	140	F	F	2.01	120
50 lb		1710	1710	F	F	2.01	120
50 lb		2260	150	*	F	2.01	120
50 lb		1850	1850	F	F	2.01	120
50 lb		5250	60	*	F	2.01	120
50 lb		-230	-230	F	F	2.01	120
50 lb		2640	70	*	F	2.01	120

\* Weight(s) as found exceed NIST Class F Tolerance.

The resulting tolerance class of the weight is determined by combining the correction of the weight and the uncertainty of the measurement. The corrections given above correlate to a conventional mass scale versus 8.0 g/cm<sup>3</sup> density and an air density of 1.2 mg/cm<sup>3</sup> at 20 °C. The items listed above have been calibrated using the Standards of the State of Minnesota which are currently in control. These standards are traceable to the SI through NIST. Calibration processes were monitored and found to be in control. All of the tolerances and specifications were evaluated according to NIST Handbook 105-1 (1990). Uncertainty calculations contain the components in NIST SOP 8 and conform to the ISO/IEC Guide to the Expression of Uncertainty in Measurement (2008), including coverage factors (k) calculated at the approximate 95.45 % confidence level. Results apply to items identified in this report only.

Pete Whabbe

Metrologist

Reviewed by:

Erik Alfvin

Metrologist



14305 SOUTHCROSS DRIVE #150  
 BURNSVILLE, MN 55306-7008  
 MN.GOV/COMMERCE/  
 651.539.1555 FAX 651.539.1553  
 AN EQUAL OPPORTUNITY EMPLOYER

Receipt Date: December 13, 2016  
 Cal. Date: December 19, 2016  
 Report Date: December 19, 2016

Report No.: 336917  
 Set Serial No.: None  
 Barcode: 203128

## Calibration Certificate

LAKE COUNTRY SCALE WORKS  
 2511 60TH ST NW  
 WILLMAR, MN 56201-8747  
 Contact: Doug Martin  
 Phone: 320-235-6863  
 PO Number: NONE  
 SOP: 8  
 Technician ID: 11

Item(s) Submitted: Cast Hand Weights  
 Manufacturer: Rice Lake  
 Weight Type: II  
 Equipment ID: None  
 Condition: Good  
 Temperature: 19.2 °C  
 Pressure: 743.5 mmHg  
 Relative Humidity: 53.8 %

Nominal Value	lb	Serial No.	CM Correction (mg)		NIST HB105-1 Class		k	U:(mg)
			As Found	As Left	As Found	As Left		
50	lb		3190	30	*	F	2.01	120
50	lb		-1030	-1030	F	F	2.01	120
50	lb		3100	40	*	F	2.01	120
50	lb		2380	260	*	F	2.01	120
50	lb		1710	1710	F	F	2.01	120
50	lb		650	650	F	F	2.01	120
50	lb		1260	1260	F	F	2.01	120
50	lb		2610	60	*	F	2.01	120
50	lb		2080	2080	F	F	2.01	120
50	lb		2660	-40	*	F	2.01	120
50	lb		1620	1620	F	F	2.01	120
50	lb		2360	50	*	F	2.01	120
50	lb		70	70	F	F	2.01	120
50	lb		840	840	F	F	2.01	120
50	lb		2500	60	*	F	2.01	120
50	lb		-1010	-1010	F	F	2.01	120
50	lb		1570	1570	F	F	2.01	120
50	lb		420	420	F	F	2.01	120
50	lb		1090	1090	F	F	2.01	120
50	lb		600	600	F	F	2.01	120

\* Weight(s) as found exceed NIST Class F Tolerance.

The resulting tolerance class of the weight is determined by combining the correction of the weight and the uncertainty of the measurement. The corrections given above correlate to a conventional mass scale versus 8.0 g/cm<sup>3</sup> density and an air density of 1.2 mg/cm<sup>3</sup> at 20 °C. The items listed above have been calibrated using the Standards of the State of Minnesota which are currently in control. These standards are traceable to the SI through NIST. Calibration processes were monitored and found to be in control. All of the tolerances and specifications were evaluated according to NIST Handbook 105-1 (1990). Uncertainty calculations contain the components in NIST SOP 8 and conform to the ISO/IEC Guide to the Expression of Uncertainty in Measurement (2008), including coverage factors (k) calculated at the approximate 95.45 % confidence level. Results apply to items identified in this report only.

Pete Wiebbe

*Pete Wiebbe*  
 Metrologist

Reviewed by:

Erik Alfvin

*Erik Alfvin*  
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Receipt Date: December 13, 2016  
 Cal. Date: December 19, 2016  
 Report Date: December 19, 2016

Report No.: 336918  
 Set Serial No.: None  
 Barcode: 017616

## Calibration Certificate

LAKE COUNTRY SCALE WORKS  
 2511 60TH ST NW  
 WILLMAR, MN 56201-8747  
 Contact: Doug Martin  
 Phone: 320-235-6863  
 PO Number: None  
 SOP: 8  
 Technician ID: 19

Item(s) Submitted: AVDP Weight Kit - F  
 Manufacturer: Rice Lake  
 Weight Type: I & II  
 Equipment ID: None  
 Condition: Good  
 Temperature: 19.4 °C  
 Pressure: 743.7 mmHg  
 Relative Humidity: 52.4 %

Nominal Value	Serial No.	CM Correction (mg)		NIST HB105-1 Class		k	U (mg)
		As Found	As Left	As Found	As Left		
5 lb		23	23	F	F	2.02	12
5 lb		-29	-29	F	F	2.02	12
5 lb		88	88	F	F	2.02	12
5 lb		-9	-9	F	F	2.02	12
5 lb		96	96	F	F	2.02	12
1 lb		10.5	10.5	F	F	2.02	2.8
1 lb		10.9	10.9	F	F	2.02	2.8
1 lb		26.6	26.6	F	F	2.02	2.8
1 lb		25.2	25.2	F	F	2.02	2.8
1 lb		12.0	12.0	F	F	2.02	2.8
0.2 lb		6.58	6.58	F	F	2.02	0.37
0.2 lb		5.57	5.57	F	F	2.02	0.37
0.1 lb		2.74	2.74	F	F	2.03	0.30
0.05 lb		0.56	0.56	F	F	2.03	0.30
0.02 lb		0.23	0.23	F	F	2.02	0.16
0.02 lb		0.86	0.86	F	F	2.02	0.16
0.01 lb		-0.63	-0.63	F	F	2.03	0.12
0.005 lb		0.70	0.70	F	F	2.03	0.10
0.002 lb		0.103	0.103	F	F	2.03	0.066
0.002 lb		0.347	0.347	F	F	2.03	0.066
0.001 lb		0.274	0.274	F	F	2.03	0.057



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Receipt Date: December 13, 2016  
 Cal. Date: December 19, 2016  
 Report Date: December 19, 2016

Report No.: 336918  
 Set Serial No.: None  
 Barcode: 017616

Continued,

## Calibration Certificate

LAKE COUNTRY SCALE WORKS  
 2511 60TH ST NW  
 WILLMAR, MN 56201-8747  
 Contact: Doug Martin  
 Phone: 320-235-6863  
 PO Number: None  
 SOP: 8  
 Technician ID: 19

Item(s) Submitted: AVDP Weight Kit - F  
 Manufacturer: Rice Lake  
 Weight Type: I & II  
 Equipment ID: None  
 Condition: Good  
 Temperature: 19.4 °C  
 Pressure: 743.7 mmHg  
 Relative Humidity: 52.4 %

Nominal Value	Serial No.	CM Correction (mg)		NIST HB105-1 Class		k	U (mg)
		As Found	As Left	As Found	As Left		
8 oz		15.7	15.7	F	F	2.02	2.3
4 oz		6.79	6.79	F	F	2.00	0.60
2 oz		-0.66	-0.66	F	F	2.00	0.36
1 oz		1.96	1.96	F	F	2.00	0.30
1/2 oz		1.94	1.94	F	F	2.00	0.24
1/4 oz		1.33	1.33	F	F	2.00	0.12
1/8 oz		0.161	0.161	F	F	2.00	0.090
1/16 oz		0.789	0.789	F	F	2.00	0.060
1/32 oz		0.367	0.367	F	F	2.00	0.049
1/32 oz		0.341	0.341	F	F	2.00	0.049

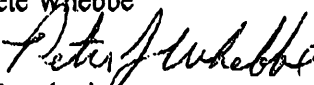
The resulting tolerance class of the weight is determined by combining the correction of the weight and the uncertainty of the measurement. The corrections given above correlate to a conventional mass scale versus 8.0 g/cm<sup>3</sup> density and an air density of 1.2 mg/cm<sup>3</sup> at 20 °C. The items listed above have been calibrated using the Standards of the State of Minnesota which are currently in control. These standards are traceable to the SI through NIST. Calibration processes were monitored and found to be in control. All of the tolerances and specifications were evaluated according to NIST Handbook 105-1 (1990). Uncertainty calculations contain the components in NIST SOP 8 and conform to the ISO/IEC Guide to the Expression of Uncertainty in Measurement (2008), including coverage factors (k) calculated at the approximate 95.45 % confidence level. Results apply to items identified in this report only.

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 Metrologist

Page 2 of 2

Reviewed by:

Pete Whebbe

  
 Metrologist



14305 SOUTHCROSS DRIVE #150  
 BURNSVILLE, MN 55306-7008  
 MN.GOV/COMMERCE/  
 651.539.1555 FAX 651.539.1553  
 AN EQUAL OPPORTUNITY EMPLOYER

Receipt Date: December 13, 2016 Report No.: 336920  
 Cal. Date: December 19, 2016 Set Serial No.: None  
 Report Date: December 19, 2016 Barcode: 200560

## Calibration Certificate

LAKE COUNTRY SCALE WORKS  
 2511 60TH ST NW  
 WILLMAR, MN 56201-8747  
 Contact: Doug Martin  
 Phone: 320-235-6863  
 PO Number: None  
 SOP: 8  
 Technician ID: 19

Item(s) Submitted: Metric Weight Kit - F  
 Manufacturer: Rice Lake  
 Weight Type: I & II  
 Equipment ID: None  
 Condition: Good  
 Temperature: 19.4 °C  
 Pressure: 741.6 mmHg  
 Relative Humidity: 53.1 %

Nominal Value	Serial No.	CM Correction (mg)		NIST HB105-1 Class		k	U (mg)
		As Found	As Left	As Found	As Left		
2000 g		97	97	F	F	2.03	12
1000 g		24.2	24.2	F	F	2.04	7.1
500 g		32.4	32.4	F	F	2.03	4.0
200 g		19.3	19.3	F	F	2.03	1.2
200 g		21.0	21.0	F	F	2.03	1.2
100 g		5.72	5.72	F	F	2.03	0.60
50 g		4.15	4.15	F	F	2.04	0.36
20 g		1.80	1.80	F	F	2.03	0.30
20 g		1.42	1.42	F	F	2.03	0.30
10 g		0.74	0.74	F	F	2.03	0.24
5 g		0.58	0.58	F	F	2.03	0.16
2 g		0.76	0.76	F	F	2.03	0.10
2 g		0.56	0.56	F	F	2.03	0.10
1 g		0.330	0.330	F	F	2.03	0.074

The resulting tolerance class of the weight is determined by combining the correction of the weight and the uncertainty of the measurement. The corrections given above correlate to a conventional mass scale versus 8.0 g/cm<sup>3</sup> density and an air density of 1.2 mg/cm<sup>3</sup> at 20 °C. The items listed above have been calibrated using the Standards of the State of Minnesota which are currently in control. These standards are traceable to the SI through NIST. Calibration processes were monitored and found to be in control. All of the tolerances and specifications were evaluated according to NIST Handbook 105-1 (1990). Uncertainty calculations contain the components in NIST SOP 8 and conform to the ISO/IEC Guide to the Expression of Uncertainty in Measurement (2008), including coverage factors (k) calculated at the approximate 95.45 % confidence level. Results apply to items identified in this report only.

Erik Alfvén  
  
 Metrologist

Reviewed by:  
 Pete Whebbe  
  
 Metrologist

# United States Department of Commerce National Institute of Standards and Technology

Certificate of Metrological Traceability For:

## Minnesota

This laboratory has demonstrated evidence of an unbroken chain of metrological traceability of its standards to the international system of units (SI), documented measurement uncertainties, uses documented measurement procedures, successfully completed training and proficiency tests, documented calibration intervals, submitted a quality management system, and demonstrated suitable measurement assurance for the Scope listed on this certificate.

The Office of Weights and Measures Program assesses laboratories to NIST Handbook 143 - Program Handbook for State Weights and Measures Laboratories and ISO/IEC 17025:2005.

### Scope

<b>Mass Echelon II</b>	<b>Weight Carts</b>	<b>Volume Gravimetric, I</b>
50 kg to 1 mg	10 000 lb to 2000 lb	20 L to 10 mL
1000 lb to 0.001 lb	Wheel Load Weighers	100 gal to 0.25 qt
4 oz to 0.03125 oz	20 000 lb to 2000 lb	<b>Volume Transfer, II</b>
<b>Mass Echelon III</b>	Railroad Test Cars	1500 gal to 5 gal
50 kg to 1 mg	110 000 lb to 80 000 lb	100 gal to 25 gal LPG
5000 lb to 0.001 lb		
4 oz to 0.03125 oz		



2016 to 2017

Carol T. Hecker, Chief  
NIST Office of Weights and Measures

Effective Dates: 2016-01-01 to 2017-12-31