



APPLICATION FOR REGISTRATION AS A REGISTERED SERVICE COMPANY
 Public Service Commission
 SFN 51277 (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>lcswdoug@gmail.com</i>	Application Date <i>1-17-18</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>250,000 #</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>1626</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):

(8) - 1000# wts	
(20) - 500# wts	
(56) - 50# wts	
(1) - 20# wt	
(1) - 25# wt	
(1) - 200# basket	
(1) - 4,000# cart	
(2) - 30# Kit	
(2) - Metric Kit	

Additional Application Items (initial where appropriate):

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:

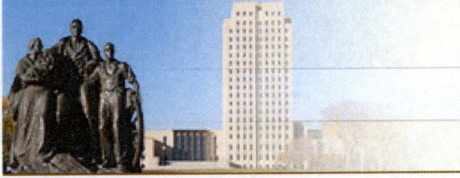
Include my company information on your registered service company list for public contact.
 Yes No

I am Douglas Martin, 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 Martin
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



SECRETARY OF STATE NORTH DAKOTA



[Home](#) | [Business Records Search](#)

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.

[2017](#) [2018](#) (generates a forms-fillable pdf in a new pop-up window)

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We use Secure Sockets Layer (SSL) encryption technology to ensure your information is secure and protected.

Will open a new window (pop-up).

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Receipt Date: December 15, 2017
Cal. Date: December 18, 2017
Report Date: December 18, 2017

Report No.: 338640
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
Procedure: NIST SOP 8
Technician ID: 11

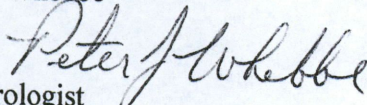
Item(s) Submitted: 4000 lb Weight Cart
Manufacturer: Lake Country
Weight Type: NA
Equipment ID: None
Condition: Fair
Temperature: 19.8 °C
Pressure: 730.9 mmHg
Relative Humidity: 48.4 %

Nominal Value	Serial No.	CM Correction (g)		NIST HB105-8 Tolerance		<i>k</i>	U (g)
		As Found	As Left	As Found	As Left		
4000 lb		519	92	*	Meets	2.07	60.

* Weight(s) as found exceed NIST HB105-8 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/cm³ density and an air density of 1.2 mg/cm³ 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 Whebbe


Metrologist

Reviewed by:

Erik Alfvín


Metrologist

Receipt Date: December 15, 2017
Cal. Date: December 18, 2017
Report Date: December 18, 2017

Report No.: 338637
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
Procedure: NIST SOP 8
Technician ID: 11

Item(s) Submitted: Cast Cube Weights
Manufacturer: Rice Lake
Weight Type: II
Equipment ID: None
Condition: Good
Temperature: 19.3 °C
Pressure: 732.5 mmHg
Relative Humidity: 49.1 %

Nominal Value	Serial No.	CM Correction (g)		NIST HB105-1 Class		k	U (g)
		As Found	As Left	As Found	As Left		
1000 lb		-15.5	-15.5	F	F	2.01	1.5
1000 lb		21.5	21.5	F	F	2.01	1.5
1000 lb		23.5	23.5	F	F	2.01	1.5
1000 lb		-12.5	-12.5	F	F	2.01	1.5
1000 lb		-28.5	-28.5	F	F	2.01	1.5
1000 lb		0.5	0.5	F	F	2.01	1.5
1000 lb		16.5	16.5	F	F	2.01	1.5
1000 lb		2.5	2.5	F	F	2.01	1.5

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/cm³ density and an air density of 1.2 mg/cm³ 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

Receipt Date: December 15, 2017
Cal. Date: December 18, 2017
Report Date: December 18, 2017

Report No.: 338638
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
Procedure: NIST SOP 8
Technician ID: 11

Item(s) Submitted: Cast Cube Weights
Manufacturer: Assorted
Weight Type: II
Equipment ID: None
Condition: Good
Temperature: 19.4 °C
Pressure: 731.8 mmHg
Relative Humidity: 48.8 %

Nominal Value	Serial No.	CM Correction (g)		NIST HB105-1 Class		k	U (g)
		As Found	As Left	As Found	As Left		
500 lb		-18.08	-18.08	F	F	2.01	0.90
500 lb		1.22	1.22	F	F	2.01	0.90
500 lb		-28.38	-6.38	*	F	2.01	0.90
500 lb		-11.78	-11.78	F	F	2.01	0.90
500 lb		-14.98	-14.98	F	F	2.01	0.90
500 lb		-18.88	-18.88	F	F	2.01	0.90
500 lb		-1.58	-1.58	F	F	2.01	0.90
500 lb		-15.48	-15.48	F	F	2.01	0.90
500 lb		-20.98	-20.98	F	F	2.01	0.90
500 lb		-5.08	-5.08	F	F	2.01	0.90
500 lb		-19.38	-19.38	F	F	2.01	0.90
500 lb		-24.18	1.62	*	F	2.01	0.90

* 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/cm³ density and an air density of 1.2 mg/cm³ 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

Receipt Date: December 14, 2017
Cal. Date: December 18, 2017
Report Date: December 18, 2017

Report No.: 338639
Set Serial No.: None
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
Procedure: NIST SOP 8
Technician ID: 11

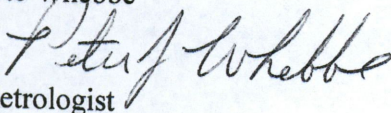
Item(s) Submitted: Cast Cube Weights
Manufacturer: Troemner
Weight Type: II
Equipment ID: None
Condition: Good
Temperature: 19.9 °C
Pressure: 728.4 mmHg
Relative Humidity: 48.4 %

Nominal Value	Serial No.	CM Correction (g)		NIST HB105-1 Class		k	U (g)
		As Found	As Left	As Found	As Left		
500 lb		-12.28	-12.28	F	F	2.01	0.90
500 lb		-36.48	0.72	*	F	2.01	0.90
500 lb		-16.28	-16.28	F	F	2.01	0.90
500 lb		-20.68	-20.68	F	F	2.01	0.90
500 lb		-36.08	1.42	*	F	2.01	0.90
500 lb		-18.08	-18.08	F	F	2.01	0.90
500 lb		-11.98	-11.98	F	F	2.01	0.90
500 lb		-12.28	-12.28	F	F	2.01	0.90

* 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/cm³ density and an air density of 1.2 mg/cm³ 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:

Erik Alfvén


Metrologist



Receipt Date: December 15, 2017
 Cal. Date: December 18, 2017
 Report Date: December 18, 2017

Report No.: 338645
 Set Serial No.: None
 Barcode: 201292

Calibration Certificate

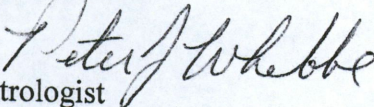
LAKE COUNTRY SCALE WORKS
 2511 60TH ST NW
 WILLMAR, MN 56201-8747
 Contact: Doug Martin
 Phone: 320-235-6863
 PO Number: NONE
 Procedure: NIST SOP 8
 Technician ID: 11

Item(s) Submitted: 200 lb Weight Basket
 Manufacturer: Lake Country
 Weight Type: NA
 Equipment ID: None
 Condition: Good
 Temperature: 19.9 °C
 Pressure: 728.4 mmHg
 Relative Humidity: 48.8 %

Nominal Value	Serial No.	Assigned Value (lb)	Assigned Value (g)	<i>k</i>	U (g)
200 lb	Basket	200.0260	90730.28	2.08	0.93

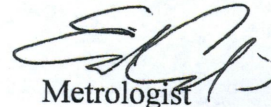
The resulting tolerance class of the weight is determined by combining the correction of the weight and the uncertainty of the measurement. The corrections given above correlate to a conventional mass scale versus 8.0 g/cm³ density and an air density of 1.2 mg/cm³ at 20 °C. The items listed above have 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

Reviewed by:

Erik Alfvin


 Metrologist

Receipt Date: December 15, 2017
Cal. Date: December 18, 2017
Report Date: December 18, 2017

Report No.: 338644
Set Serial No.: None
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
Procedure: NIST SOP 8
Technician ID: 11

Item(s) Submitted: Cast Hand Weights
Manufacturer: Rice Lake
Weight Type: II
Equipment ID: None
Condition: Good
Temperature: 19.9 °C
Pressure: 728.8 mmHg
Relative Humidity: 48.8 %

Nominal Value	Serial No.	CM Correction (mg)		NIST HB105-1 Class		k	U (mg)
		As Found	As Left	As Found	As Left		
50 lb		314	314	F	F	2.01	56
50 lb		-456	-456	F	F	2.01	56
50 lb		1794	1794	F	F	2.01	56
50 lb		904	904	F	F	2.01	56
50 lb		1344	1344	F	F	2.01	56
50 lb		604	604	F	F	2.01	56
50 lb		464	464	F	F	2.01	56
50 lb		2334	404	*	F	2.01	56
50 lb		-2896	1204	*	F	2.01	56
50 lb		-1036	-1036	F	F	2.01	56
50 lb		-626	-626	F	F	2.01	56
50 lb		-3786	114	*	F	2.01	56
50 lb		-46	-46	F	F	2.01	56
50 lb		-216	-216	F	F	2.01	56
50 lb		54	54	F	F	2.01	56
50 lb		-1896	-1896	F	F	2.01	56
50 lb		1604	1604	F	F	2.01	56
50 lb		-2306	364	*	F	2.01	56
50 lb	148	-66	-66	F	F	2.01	56
50 lb	281	3044	34	*	F	2.01	56
50 lb		1434	1434	F	F	2.01	56
50 lb		254	254	F	F	2.01	56
50 lb		2404	384	*	F	2.01	56
50 lb		-296	-296	F	F	2.01	56
50 lb		-3346	504	*	F	2.01	56
50 lb		3654	-6	*	F	2.01	56

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

Receipt Date: December 15, 2017
Cal. Date: December 18, 2017
Report Date: December 18, 2017

Report No.: 338644
Set Serial No.: None
Barcode: 201291

Continued,
338644
None
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
Procedure: NIST SOP 8
Technician ID: 11

Item(s) Submitted: Cast Hand Weights
Manufacturer: Rice Lake
Weight Type: II
Equipment ID: None
Condition: Good
Temperature: 19.9 °C
Pressure: 728.8 mmHg
Relative Humidity: 48.8 %

Nominal Value	Serial No.	CM Correction (mg)		NIST HB105-1 Class		k	U (mg)
		As Found	As Left	As Found	As Left		
50 lb		2554	14	*	F	2.01	56
50 lb		2954	234	*	F	2.01	56
50 lb		2824	114	*	F	2.01	56
50 lb		544	544	F	F	2.01	56
50 lb		-1046	-1046	F	F	2.01	56
50 lb		3854	154	*	F	2.01	56
50 lb		-2276	24	*	F	2.01	56
50 lb		-856	-856	F	F	2.01	56
50 lb		14	14	F	F	2.01	56
50 lb		-2546	-16	*	F	2.01	56
25 lb	279	-2553	517	*	F	2.02	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/cm³ density and an air density of 1.2 mg/cm³ 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

Receipt Date: December 14, 2017
Cal. Date: December 19, 2017
Report Date: December 19, 2017

Report No.: 338630
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
Procedure: NIST SOP 8
Technician ID: 11

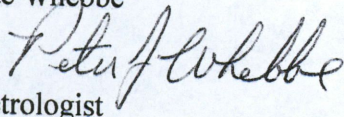
Item(s) Submitted: Cast Hand Weights
Manufacturer: Rice Lake
Weight Type: II
Equipment ID: None
Condition: Good
Temperature: 19.5 °C
Pressure: 735.1 mmHg
Relative Humidity: 46.7 %

Nominal Value	Serial No.	CM Correction (mg)		NIST HB105-1 Class		k	U (mg)
		As Found	As Left	As Found	As Left		
50 lb		4384	34	*	F	2.01	56
50 lb		1934	1934	F	F	2.01	56
50 lb		1104	1104	F	F	2.01	56
50 lb	147	2334	-26	*	F	2.01	56
50 lb		1914	1914	F	F	2.01	56
50 lb		3384	194	*	F	2.01	56
50 lb		1544	1544	F	F	2.01	56
50 lb		1994	1994	F	F	2.01	56
50 lb	146	2904	944	*	F	2.01	56
50 lb		1154	1154	F	F	2.01	56
50 lb		1094	1094	F	F	2.01	56
50 lb	280	2514	94	*	F	2.01	56
50 lb		1264	1264	F	F	2.01	56
50 lb		-996	-996	F	F	2.01	56
50 lb		2134	2134	F	F	2.01	56
50 lb		934	934	F	F	2.01	56
50 lb		1104	1104	F	F	2.01	56
50 lb		-2016	-2016	F	F	2.01	56
50 lb		3134	334	*	F	2.01	56
50 lb		1674	1674	F	F	2.01	56
20 lb	180	-603	-603	F	F	2.02	52

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

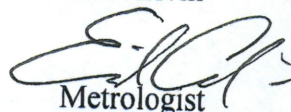
The resulting tolerance class of the weight is determined by combining the correction of the weight and the uncertainty of the measurement. The corrections given above correlate to a conventional mass scale versus 8.0 g/cm³ density and an air density of 1.2 mg/cm³ at 20 °C. The items listed above have 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:

Erik Alfvin


Metrologist



DEPARTMENT OF COMMERCE
WEIGHTS & MEASURES DIVISION

14305 Southcross Drive #150
 Burnsville, MN 55306-7008
 mn.gov/commerce/
 651.539.1555 FAX 952.435.4040
 An equal opportunity employer

Receipt Date: December 14, 2017
 Cal. Date: December 18, 2017
 Report Date: December 18, 2017

Report No.: 338629
 Set Serial No.: NONE
 Barcode: 017616

Calibration Certificate

LAKE COUNTRY SCALE WORKS
 2511 60TH ST NW
 WILLMAR, MN 56201
 Contact: Doug Martin
 Phone: 320-235-6863
 PO Number: NONE
 Procedure: NIST SOP 8
 Technician ID: 09

Item(s) Submitted: 30 lb kit w/ decimals & ounces
 Manufacturer: Rice Lake
 Weight Type: I & II
 Equipment ID: None
 Condition: Good
 Temperature: 19.5 °C
 Pressure: 728.5 mmHg
 Relative Humidity: 47.4 %

Nominal Value	Serial No.	CM Correction (mg)		NIST HB105-1 Class		k	U (mg)
		As Found	As Left	As Found	As Left		
5 lb		23.2	23.2	F	F	2.03	6.0
5 lb		-5.8	-5.8	F	F	2.03	6.0
5 lb		103.2	103.2	F	F	2.03	6.0
5 lb		89.2	89.2	F	F	2.03	6.0
5 lb		-24.8	-24.8	F	F	2.03	6.0
1 lb		11.1	11.1	F	F	2.03	1.6
1 lb		13.8	13.8	F	F	2.03	1.6
1 lb		26.6	26.6	F	F	2.03	1.6
1 lb		10.9	10.9	F	F	2.03	1.6
1 lb		25.7	25.7	F	F	2.03	1.6
0.2 lb		6.58	6.58	F	F	2.03	1.6
0.2 lb		5.59	5.59	F	F	2.03	0.22
0.1 lb		2.80	2.80	F	F	2.03	0.22
0.05 lb		0.37	0.37	F	F	2.03	0.14
0.02 lb		0.22	0.22	F	F	2.03	0.11
0.02 lb		0.861	0.861	F	F	2.03	0.066
0.01 lb		-0.628	-0.628	F	F	2.03	0.066
0.005 lb		0.906	0.906	F	F	2.03	0.052
0.002 lb		0.130	0.130	F	F	2.03	0.073
0.002 lb		0.408	0.408	F	F	2.03	0.047
0.001 lb		0.323	0.323	F	F	2.03	0.047

Receipt Date: December 14, 2017
Cal. Date: December 18, 2017
Report Date: December 18, 2017

Report No.: 338629
Set Serial No.: NONE
Barcode: 017616

Continued,

Calibration Certificate

LAKE COUNTRY SCALE WORKS
2511 60TH ST NW
WILLMAR, MN 56201
Contact: Doug Martin
Phone: 320-235-6863
PO Number: NONE
Procedure: NIST SOP 8
Technician ID: 09

Item(s) Submitted: 30 lb kit w/ decimals & ounces
Manufacturer: Rice Lake
Weight Type: I & II
Equipment ID: None
Condition: Good
Temperature: 19.5 °C
Pressure: 728.5 mmHg
Relative Humidity: 47.4 %

Nominal Value	Serial No.	CM Correction (mg)		NIST HB105-1 Class		k	U (mg)
		As Found	As Left	As Found	As Left		
8 oz		16.2	16.2	F	F	2.03	1.3
4 oz		6.91	6.91	F	F	2.00	0.22
2 oz		-0.59	-0.59	F	F	2.00	0.14
1 oz		1.88	1.88	F	F	2.00	0.11
1/2 oz		2.015	2.015	F	F	2.00	0.092
1/4 oz		1.346	1.346	F	F	2.00	0.056
1/8 oz		0.162	0.162	F	F	2.00	0.046
1/16 oz		0.798	0.798	F	F	2.00	0.070
1/32 oz		0.373	0.373	F	F	2.00	0.044
1/32 oz		0.346	0.346	F	F	2.00	0.044

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/cm³ density and an air density of 1.2 mg/cm³ 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.

Heidi Jones
Heidi Jones
Laboratory Administrator

Reviewed by:
Pete Whebbe
Pete Whebbe
Metrologist

Receipt Date: December 15, 2017
Cal. Date: December 18, 2017
Report Date: December 18, 2017

Report No.: 338646
Set Serial No.: NONE
Barcode: 203129

Calibration Certificate

LAKE COUNTRY SCALE WORKS
2511 60TH ST NW
WILLMAR, MN 56201
Contact: Doug Martin
Phone: 320-235-6863
PO Number: NONE
Procedure: NIST SOP 8
Technician ID: 09

Item(s) Submitted: 30 lb kit w/ decimals & ounces
Manufacturer: RICE LAKE
Weight Type: I & II
Equipment ID: None
Condition: Good
Temperature: 19.5 °C
Pressure: 730.5 mmHg
Relative Humidity: 51.1 %

Nominal Value	Serial No.	CM Correction (mg)		NIST HB105-1 Class		k	U (mg)
		As Found	As Left	As Found	As Left		
5 lb		93.2	93.2	F	F	2.03	6.0
5 lb		98.2	98.2	F	F	2.03	6.0
5 lb		100.2	100.2	F	F	2.03	6.0
5 lb		92.2	92.2	F	F	2.03	6.0
5 lb		98.2	98.2	F	F	2.03	6.0
1 lb		29.9	29.9	F	F	2.03	6.0
1 lb		31.7	31.7	F	F	2.03	1.6
1 lb		32.2	32.2	F	F	2.03	1.6
1 lb		31.5	31.5	F	F	2.03	1.6
1 lb		34.0	34.0	F	F	2.03	1.6
0.2 lb		9.17	9.17	F	F	2.03	1.6
0.2 lb		8.40	8.40	F	F	2.03	0.22
0.1 lb		4.14	4.14	F	F	2.03	0.22
0.05 lb		1.52	1.52	F	F	2.03	0.14
0.02 lb		0.175	0.175	F	F	2.03	0.11
0.02 lb		0.702	0.702	F	F	2.03	0.066
0.01 lb		0.954	0.954	F	F	2.03	0.066
0.005 lb		0.443	0.443	F	F	2.03	0.052
0.002 lb		0.684	0.684	F	F	2.03	0.073
0.002 lb		0.309	0.309	F	F	2.03	0.047
0.001 lb		-0.009	-0.009	F	F	2.03	0.047

Receipt Date: December 15, 2017
Cal. Date: December 18, 2017
Report Date: December 18, 2017

Report No.: 338646
Set Serial No.: NONE
Barcode: 203129

Continued,
338646
NONE
203129

Calibration Certificate

LAKE COUNTRY SCALE WORKS
2511 60TH ST NW
WILLMAR, MN 56201
Contact: Doug Martin
Phone: 320-235-6863
PO Number: NONE
Procedure: NIST SOP 8
Technician ID: 09

Item(s) Submitted: 30 lb kit w/ decimals & ounces
Manufacturer: RICE LAKE
Weight Type: I & II
Equipment ID: None
Condition: Good
Temperature: 19.5 °C
Pressure: 730.5 mmHg
Relative Humidity: 51.1 %

Nominal Value	Serial No.	CM Correction (mg)		NIST HB105-1 Class		k	U (mg)
		As Found	As Left	As Found	As Left		
8 oz		13.5	13.5	F	F	2.03	1.3
4 oz		11.69	11.69	F	F	2.00	0.22
2 oz		5.05	5.05	F	F	2.00	0.14
1 oz		2.04	2.04	F	F	2.00	0.11
1/2 oz		1.258	1.258	F	F	2.00	0.092
1/4 oz		1.003	1.003	F	F	2.00	0.056
1/8 oz		0.472	0.472	F	F	2.00	0.046
1/16 oz		0.584	0.584	F	F	2.00	0.070
1/32 oz		0.391	0.391	F	F	2.00	0.044
1/32 oz		0.370	0.370	F	F	2.00	0.044

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/cm³ density and an air density of 1.2 mg/cm³ 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.

Heidi Jones
Heidi Jones
Laboratory Administrator

Reviewed by:
Pete Whebbe
Pete Whebbe
Metrologist

Receipt Date: December 14, 2017
Cal. Date: December 19, 2017
Report Date: December 19, 2017

Report No.: 338628
Set Serial No.: NONE
Barcode: 201274

Calibration Certificate

LAKE COUNTRY SCALE WORKS
2511 60TH ST NW
WILLMAR, MN 56201-8747
Contact: Doug Martin
Phone: 320-235-6863
PO Number: NONE
Procedure: NIST SOP 8
Technician ID: 09

Item(s) Submitted: Metric weight kit
Manufacturer: Rice Lake
Weight Type: I & II
Equipment ID: None
Condition: Good
Temperature: 19.6 °C
Pressure: 736.8 mmHg
Relative Humidity: 47.6 %

Nominal Value	Serial No.	CM Correction (mg)		NIST HB105-1 Class		k	U (mg)
		As Found	As Left	As Found	As Left		
2000 g		99.1	99.1	F	F	2.01	5.7
1000 g		47.8	47.8	F	F	2.02	2.5
500 g		16.2	16.2	F	F	2.01	2.0
200 g		12.98	12.98	F	F	2.02	0.55
200 g		10.34	10.34	F	F	2.02	0.55
100 g		6.49	6.49	F	F	2.02	0.25
50 g		3.53	3.53	F	F	2.02	0.16
20 g		1.68	1.68	F	F	2.02	0.11
20 g		1.77	1.77	F	F	2.02	0.11
10 g		0.531	0.531	F	F	2.02	0.072
5 g		0.526	0.526	F	F	2.02	0.054
2 g		0.095	0.095	F	F	2.02	0.048
2 g		0.462	0.462	F	F	2.02	0.048
1 g		0.002	0.002	F	F	2.05	0.039



Receipt Date: December 14, 2017
Cal. Date: December 19, 2017
Report Date: December 19, 2017

Report No.: 338628
Set Serial No.: NONE
Barcode: 201274

Continued,
338628
NONE
201274

Calibration Certificate

LAKE COUNTRY SCALE WORKS
2511 60TH ST NW
WILLMAR, MN 56201
Contact: Doug Martin
Phone: 320-235-6863
PO Number: NONE
Procedure: NIST SOP 8
Technician ID: 09

Item(s) Submitted: Metric weight kit
Manufacturer: Rice Lake
Weight Type: I & II
Equipment ID: None
Condition: Good
Temperature: 19.6 °C
Pressure: 736.8 mmHg
Relative Humidity: 47.6 %

Nominal Value	Serial No.	CM Correction (mg)		NIST HB105-1 Class		k	U (mg)
		As Found	As Left	As Found	As Left		
0.5 g		0.297	0.297	F	F	2.05	0.021
0.2 g		0.221	0.221	F	F	2.04	0.016
0.2 g		0.229	0.229	F	F	2.04	0.016
0.1 g		0.152	0.152	F	F	2.05	0.015
0.05 g		0.103	0.103	F	F	2.06	0.011
0.02 g		0.0805	0.0805	F	F	2.05	0.0092
0.02 g		0.0765	0.0765	F	F	2.05	0.0092
0.01 g		0.0894	0.0894	F	F	2.05	0.0086

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/cm³ density and an air density of 1.2 mg/cm³ 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.

Heidi Jones,
Heidi Jones
Laboratory Administrator

Reviewed by:
Pete Whebbe
Peter J. Whebbe
Metrologist



Receipt Date: December 15, 2017
Cal. Date: December 19, 2017
Report Date: December 19, 2017

Report No.: 338647
Set Serial No.: NONE
Barcode: 200560

Calibration Certificate

LAKE COUNTRY SCALE WORKS
2511 60TH ST NW
WILLMAR, MN 56201
Contact: Doug Martin
Phone: 320-235-6863
PO Number: NONE
Procedure: NIST SOP 8
Technician ID: 09

Item(s) Submitted: Metric weight kit
Manufacturer: RICE LAKE
Weight Type: I & II
Equipment ID: None
Condition: Good
Temperature: 19.6 °C
Pressure: 736.8 mmHg
Relative Humidity: 47.6 %

Nominal Value	Serial No.	CM Correction (mg)		NIST HB105-1 Class		k	U (mg)
		As Found	As Left	As Found	As Left		
2000	8	97.1	97.1	F	F	2.01	5.7
1000	8	23.7	23.7	F	F	2.02	2.5
500	8	32.1	32.1	F	F	2.01	2.0
200	8	19.26	19.26	F	F	2.02	0.55
200	8	20.98	20.98	F	F	2.02	0.55
100	8	5.80	5.80	F	F	2.02	0.25
50	8	4.16	4.16	F	F	2.02	0.16
20	8	1.43	1.43	F	F	2.02	0.11
20	8	1.81	1.81	F	F	2.02	0.11
10	8	0.761	0.761	F	F	2.02	0.072
5	8	0.552	0.552	F	F	2.02	0.054
2	8	0.767	0.767	F	F	2.02	0.048
2	8	0.563	0.563	F	F	2.02	0.048
1	8	0.326	0.326	F	F	2.05	0.039

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/cm³ density and an air density of 1.2 mg/cm³ 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.

Heidi Jones
Heidi Jones
Laboratory Administrator

Reviewed by:
Pete Whebbe
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

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



2017


Georgia L. Harris, Acting Chief
NIST Office of Weights and Measures

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

Amended: 2016-12-31

Scope modified for 2017.