

## Certificate of Weight Calibration (Non-accredited)

A customer requesting a non-accredited Certificate of Weight Calibration, needs proof of traceability to NIST and actual values and uncertainties. Comparisons must be made between the item being calibrated and the standard being used. The mass reference standard used for the tolerance test is essential to the traceable document.

Prior to comparison between the known standard and the item submitted for calibrating, the known standard must be sufficiently calibrated over time to produce predictable measurements.

This certificate should contain all of the data related to the calibration. After calibrating, a non-accredited Certificate of Weight Calibration is issued. Although the Certificate of Weight Calibration (non-accredited) provides traceability to NIST, it is not a NVLAP accredited document. If an accredited document is required, please refer to the Certificate of Weight Calibration (accredited) on the previous page.

| RICE LAKE   |   | Certificate of Weight Calibration  |   |                        |  |                 |  |        |  |    |                            |          |  |    |                                 |        |                        |    |   |            |   |    |   |            |                                     |    |   |              |  |   |                       |     |   |  |  |                        |  |  |  |    |          |    |          |    |                 |    |       |    |           |    |          |    |      |    |               |    |            |    |               |             |                                       |  |  |        |   |  |  |           |  |  |  |       |                      |  |  |
|---|---|--|---|------------------------|--|-----------------|--|--------|--|----|----------------------------|----------|--|----|---------------------------------|--------|------------------------|----|---|------------|---|----|---|------------|-------------------------------------|----|---|--------------|--|---|-----------------------|-----|---|--|--|------------------------|--|--|--|----|----------|----|----------|----|-----------------|----|-------|----|-----------|----|----------|----|------|----|---------------|----|------------|----|---------------|-------------|---------------------------------------|--|--|--------|---|--|--|-----------|--|--|--|-------|----------------------|--|--|
| Traceable Certificate Number:   | 1234567   | 1  |   |                        |  |                 |  |        |  |    |                            |          |  |    |                                 |        |                        |    |   |            |   |    |   |            |                                     |    |   |              |  |   |                       |     |   |  |  |                        |  |  |  |    |          |    |          |    |                 |    |       |    |           |    |          |    |      |    |               |    |            |    |               |             |                                       |  |  |        |   |  |  |           |  |  |  |       |                      |  |  |
| Contractor:   | RICE LAKE WEIGHING SYSTEMS<br>230 W. COLEMAN STREET<br>RICE LAKE, WI 54868    | 2  |   |                        |  |                 |  |        |  |    |                            |          |  |    |                                 |        |                        |    |   |            |   |    |   |            |                                     |    |   |              |  |   |                       |     |   |  |  |                        |  |  |  |    |          |    |          |    |                 |    |       |    |           |    |          |    |      |    |               |    |            |    |               |             |                                       |  |  |        |   |  |  |           |  |  |  |       |                      |  |  |
| Purchase Order Number:  | PURCHASE ORDER  | 3  |   |                        |  |                 |  |        |  |    |                            |          |  |    |                                 |        |                        |    |   |            |   |    |   |            |                                     |    |   |              |  |   |                       |     |   |  |  |                        |  |  |  |    |          |    |          |    |                 |    |       |    |           |    |          |    |      |    |               |    |            |    |               |             |                                       |  |  |        |   |  |  |           |  |  |  |       |                      |  |  |
| Client:   | RICE LAKE WEIGHING SYSTEMS<br>230 W. COLEMAN STREET<br>RICE LAKE, WI 54868    |  |   |                        |  |                 |  |        |  |    |                            |          |  |    |                                 |        |                        |    |   |            |   |    |   |            |                                     |    |   |              |  |   |                       |     |   |  |  |                        |  |  |  |    |          |    |          |    |                 |    |       |    |           |    |          |    |      |    |               |    |            |    |               |             |                                       |  |  |        |   |  |  |           |  |  |  |       |                      |  |  |
| 4 Date Received:  | 25 Sep 2022   |  |   |                        |  |                 |  |        |  |    |                            |          |  |    |                                 |        |                        |    |   |            |   |    |   |            |                                     |    |   |              |  |   |                       |     |   |  |  |                        |  |  |  |    |          |    |          |    |                 |    |       |    |           |    |          |    |      |    |               |    |            |    |               |             |                                       |  |  |        |   |  |  |           |  |  |  |       |                      |  |  |
| Date Calibrated:  | 26 Sep 2022 to 27 Sep 2022  | 5  |   |                        |  |                 |  |        |  |    |                            |          |  |    |                                 |        |                        |    |   |            |   |    |   |            |                                     |    |   |              |  |   |                       |     |   |  |  |                        |  |  |  |    |          |    |          |    |                 |    |       |    |           |    |          |    |      |    |               |    |            |    |               |             |                                       |  |  |        |   |  |  |           |  |  |  |       |                      |  |  |
| Recalibration Date:   | 26 Sep 2023   | 6  |   |                        |  |                 |  |        |  |    |                            |          |  |    |                                 |        |                        |    |   |            |   |    |   |            |                                     |    |   |              |  |   |                       |     |   |  |  |                        |  |  |  |    |          |    |          |    |                 |    |       |    |           |    |          |    |      |    |               |    |            |    |               |             |                                       |  |  |        |   |  |  |           |  |  |  |       |                      |  |  |
| NIST Certificate Number:  | 684/292805-19   |  |   |                        |  |                 |  |        |  |    |                            |          |  |    |                                 |        |                        |    |   |            |   |    |   |            |                                     |    |   |              |  |   |                       |     |   |  |  |                        |  |  |  |    |          |    |          |    |                 |    |       |    |           |    |          |    |      |    |               |    |            |    |               |             |                                       |  |  |        |   |  |  |           |  |  |  |       |                      |  |  |
| If there are two NIST numbers, one may apply  |   |  |   |                        |  |                 |  |        |  |    |                            |          |  |    |                                 |        |                        |    |   |            |   |    |   |            |                                     |    |   |              |  |   |                       |     |   |  |  |                        |  |  |  |    |          |    |          |    |                 |    |       |    |           |    |          |    |      |    |               |    |            |    |               |             |                                       |  |  |        |   |  |  |           |  |  |  |       |                      |  |  |
| Calibrated By:  | 20, 28  | 7  |   |                        |  |                 |  |        |  |    |                            |          |  |    |                                 |        |                        |    |   |            |   |    |   |            |                                     |    |   |              |  |   |                       |     |   |  |  |                        |  |  |  |    |          |    |          |    |                 |    |       |    |           |    |          |    |      |    |               |    |            |    |               |             |                                       |  |  |        |   |  |  |           |  |  |  |       |                      |  |  |
| Procedure:  | WI05-0095 Rev. D  |  |   |                        |  |                 |  |        |  |    |                            |          |  |    |                                 |        |                        |    |   |            |   |    |   |            |                                     |    |   |              |  |   |                       |     |   |  |  |                        |  |  |  |    |          |    |          |    |                 |    |       |    |           |    |          |    |      |    |               |    |            |    |               |             |                                       |  |  |        |   |  |  |           |  |  |  |       |                      |  |  |
| Condition of Weights:   | Acceptable for Calibration  | 8  |   |                        |  |                 |  |        |  |    |                            |          |  |    |                                 |        |                        |    |   |            |   |    |   |            |                                     |    |   |              |  |   |                       |     |   |  |  |                        |  |  |  |    |          |    |          |    |                 |    |       |    |           |    |          |    |      |    |               |    |            |    |               |             |                                       |  |  |        |   |  |  |           |  |  |  |       |                      |  |  |
| Description of Weights:   | 2 mg to 100 g Polished Weights, ASTM Class 1, S/N 1234, ID# ABCD              |  |   |                        |  |                 |  |        |  |    |                            |          |  |    |                                 |        |                        |    |   |            |   |    |   |            |                                     |    |   |              |  |   |                       |     |   |  |  |                        |  |  |  |    |          |    |          |    |                 |    |       |    |           |    |          |    |      |    |               |    |            |    |               |             |                                       |  |  |        |   |  |  |           |  |  |  |       |                      |  |  |
| Comments:   |   |  |   |                        |  |                 |  |        |  |    |                            |          |  |    |                                 |        |                        |    |   |            |   |    |   |            |                                     |    |   |              |  |   |                       |     |   |  |  |                        |  |  |  |    |          |    |          |    |                 |    |       |    |           |    |          |    |      |    |               |    |            |    |               |             |                                       |  |  |        |   |  |  |           |  |  |  |       |                      |  |  |
| <table border="1"> <thead> <tr> <th colspan="2">Key Notes</th> <th colspan="2">Cleaning Levels</th> </tr> </thead> <tbody> <tr> <td>Finish</td> <td>* Indicates the weight does not meet the finish requirements</td> <td>A</td> <td>Dusted with brush or cloth</td> </tr> <tr> <td>Material</td> <td>⊕ Indicates the weight does not meet the material requirements</td> <td>B</td> <td>Spot cleaned with ethyl alcohol</td> </tr> <tr> <td>New Wt</td> <td>◇ Indicates new weight</td> <td>C</td> <td>Full surface cleaned with ethyl alcohol</td> </tr> <tr> <td>Missing Wt</td> <td>△ Indicates replaced missing weight with new weight</td> <td>D</td> <td>Spot cleaned with non-alcohol solvent followed by ethyl alcohol</td> </tr> <tr> <td>Damaged Wt</td> <td>✕ Indicates replaced damaged weight</td> <td>E</td> <td>Full surface cleaned with non-alcohol solvent followed by ethyl alcohol</td> </tr> <tr> <td>Replaced OOT</td> <td>★ Indicates replaced out of tolerance weight</td> <td>F</td> <td>No cleaning performed</td> </tr> <tr> <td>OOT</td> <td>⊗ Indicates correction plus or minus Uncertainty greater than or equal to MPE</td> <td colspan="2"> <table border="1"> <thead> <tr> <th colspan="4">Material Abbreviations</th> </tr> </thead> <tbody> <tr> <td>AL</td> <td>Aluminum</td> <td>TA</td> <td>Tantalum</td> </tr> <tr> <td>SS</td> <td>Stainless Steel</td> <td>BR</td> <td>Brass</td> </tr> <tr> <td>CI</td> <td>Cast Iron</td> <td>PL</td> <td>Platinum</td> </tr> <tr> <td>IR</td> <td>Iron</td> <td>NS</td> <td>Nickel Silver</td> </tr> <tr> <td>MS</td> <td>Mild Steel</td> <td>OR</td> <td>Other/Unknown</td> </tr> </tbody> </table> </td> </tr> <tr> <td>Magnetic Wt</td> <td>★★ Indicates replaced magnetic weight</td> <td></td> <td></td> </tr> <tr> <td>Design</td> <td>⊗ Indicates the weight does not meet the design or shape requirements</td> <td></td> <td></td> </tr> <tr> <td>Repainted</td> <td>■ Indicates the weight was repainted after As Found obtained</td> <td></td> <td></td> </tr> <tr> <td>Other</td> <td>⬆ See comments above</td> <td></td> <td></td> </tr> </tbody> </table> |   |  |   | Key Notes              |  | Cleaning Levels |  | Finish | * Indicates the weight does not meet the finish requirements | A  | Dusted with brush or cloth | Material | ⊕ Indicates the weight does not meet the material requirements | B  | Spot cleaned with ethyl alcohol | New Wt | ◇ Indicates new weight | C  | Full surface cleaned with ethyl alcohol | Missing Wt | △ Indicates replaced missing weight with new weight | D  | Spot cleaned with non-alcohol solvent followed by ethyl alcohol | Damaged Wt | ✕ Indicates replaced damaged weight | E  | Full surface cleaned with non-alcohol solvent followed by ethyl alcohol | Replaced OOT | ★ Indicates replaced out of tolerance weight | F | No cleaning performed | OOT | ⊗ Indicates correction plus or minus Uncertainty greater than or equal to MPE | <table border="1"> <thead> <tr> <th colspan="4">Material Abbreviations</th> </tr> </thead> <tbody> <tr> <td>AL</td> <td>Aluminum</td> <td>TA</td> <td>Tantalum</td> </tr> <tr> <td>SS</td> <td>Stainless Steel</td> <td>BR</td> <td>Brass</td> </tr> <tr> <td>CI</td> <td>Cast Iron</td> <td>PL</td> <td>Platinum</td> </tr> <tr> <td>IR</td> <td>Iron</td> <td>NS</td> <td>Nickel Silver</td> </tr> <tr> <td>MS</td> <td>Mild Steel</td> <td>OR</td> <td>Other/Unknown</td> </tr> </tbody> </table> |  | Material Abbreviations |  |  |  | AL | Aluminum | TA | Tantalum | SS | Stainless Steel | BR | Brass | CI | Cast Iron | PL | Platinum | IR | Iron | NS | Nickel Silver | MS | Mild Steel | OR | Other/Unknown | Magnetic Wt | ★★ Indicates replaced magnetic weight |  |  | Design | ⊗ Indicates the weight does not meet the design or shape requirements |  |  | Repainted | ■ Indicates the weight was repainted after As Found obtained |  |  | Other | ⬆ See comments above |  |  |
| Key Notes   |   | Cleaning Levels  |   |                        |  |                 |  |        |  |    |                            |          |  |    |                                 |        |                        |    |   |            |   |    |   |            |                                     |    |   |              |  |   |                       |     |   |  |  |                        |  |  |  |    |          |    |          |    |                 |    |       |    |           |    |          |    |      |    |               |    |            |    |               |             |                                       |  |  |        |   |  |  |           |  |  |  |       |                      |  |  |
| Finish  | * Indicates the weight does not meet the finish requirements                  | A  | Dusted with brush or cloth  |                        |  |                 |  |        |  |    |                            |          |  |    |                                 |        |                        |    |   |            |   |    |   |            |                                     |    |   |              |  |   |                       |     |   |  |  |                        |  |  |  |    |          |    |          |    |                 |    |       |    |           |    |          |    |      |    |               |    |            |    |               |             |                                       |  |  |        |   |  |  |           |  |  |  |       |                      |  |  |
| Material  | ⊕ Indicates the weight does not meet the material requirements                | B  | Spot cleaned with ethyl alcohol   |                        |  |                 |  |        |  |    |                            |          |  |    |                                 |        |                        |    |   |            |   |    |   |            |                                     |    |   |              |  |   |                       |     |   |  |  |                        |  |  |  |    |          |    |          |    |                 |    |       |    |           |    |          |    |      |    |               |    |            |    |               |             |                                       |  |  |        |   |  |  |           |  |  |  |       |                      |  |  |
| New Wt  | ◇ Indicates new weight  | C  | Full surface cleaned with ethyl alcohol                                 |                        |  |                 |  |        |  |    |                            |          |  |    |                                 |        |                        |    |   |            |   |    |   |            |                                     |    |   |              |  |   |                       |     |   |  |  |                        |  |  |  |    |          |    |          |    |                 |    |       |    |           |    |          |    |      |    |               |    |            |    |               |             |                                       |  |  |        |   |  |  |           |  |  |  |       |                      |  |  |
| Missing Wt  | △ Indicates replaced missing weight with new weight                           | D  | Spot cleaned with non-alcohol solvent followed by ethyl alcohol         |                        |  |                 |  |        |  |    |                            |          |  |    |                                 |        |                        |    |   |            |   |    |   |            |                                     |    |   |              |  |   |                       |     |   |  |  |                        |  |  |  |    |          |    |          |    |                 |    |       |    |           |    |          |    |      |    |               |    |            |    |               |             |                                       |  |  |        |   |  |  |           |  |  |  |       |                      |  |  |
| Damaged Wt  | ✕ Indicates replaced damaged weight   | E  | Full surface cleaned with non-alcohol solvent followed by ethyl alcohol |                        |  |                 |  |        |  |    |                            |          |  |    |                                 |        |                        |    |   |            |   |    |   |            |                                     |    |   |              |  |   |                       |     |   |  |  |                        |  |  |  |    |          |    |          |    |                 |    |       |    |           |    |          |    |      |    |               |    |            |    |               |             |                                       |  |  |        |   |  |  |           |  |  |  |       |                      |  |  |
| Replaced OOT  | ★ Indicates replaced out of tolerance weight                                  | F  | No cleaning performed   |                        |  |                 |  |        |  |    |                            |          |  |    |                                 |        |                        |    |   |            |   |    |   |            |                                     |    |   |              |  |   |                       |     |   |  |  |                        |  |  |  |    |          |    |          |    |                 |    |       |    |           |    |          |    |      |    |               |    |            |    |               |             |                                       |  |  |        |   |  |  |           |  |  |  |       |                      |  |  |
| OOT   | ⊗ Indicates correction plus or minus Uncertainty greater than or equal to MPE | <table border="1"> <thead> <tr> <th colspan="4">Material Abbreviations</th> </tr> </thead> <tbody> <tr> <td>AL</td> <td>Aluminum</td> <td>TA</td> <td>Tantalum</td> </tr> <tr> <td>SS</td> <td>Stainless Steel</td> <td>BR</td> <td>Brass</td> </tr> <tr> <td>CI</td> <td>Cast Iron</td> <td>PL</td> <td>Platinum</td> </tr> <tr> <td>IR</td> <td>Iron</td> <td>NS</td> <td>Nickel Silver</td> </tr> <tr> <td>MS</td> <td>Mild Steel</td> <td>OR</td> <td>Other/Unknown</td> </tr> </tbody> </table> |   | Material Abbreviations |  |                 |  | AL     | Aluminum   | TA | Tantalum                   | SS       | Stainless Steel  | BR | Brass                           | CI     | Cast Iron              | PL | Platinum                                | IR         | Iron  | NS | Nickel Silver   | MS         | Mild Steel                          | OR | Other/Unknown   |              |  |   |                       |     |   |  |  |                        |  |  |  |    |          |    |          |    |                 |    |       |    |           |    |          |    |      |    |               |    |            |    |               |             |                                       |  |  |        |   |  |  |           |  |  |  |       |                      |  |  |
| Material Abbreviations  |   |  |   |                        |  |                 |  |        |  |    |                            |          |  |    |                                 |        |                        |    |   |            |   |    |   |            |                                     |    |   |              |  |   |                       |     |   |  |  |                        |  |  |  |    |          |    |          |    |                 |    |       |    |           |    |          |    |      |    |               |    |            |    |               |             |                                       |  |  |        |   |  |  |           |  |  |  |       |                      |  |  |
| AL  | Aluminum  | TA   | Tantalum  |                        |  |                 |  |        |  |    |                            |          |  |    |                                 |        |                        |    |   |            |   |    |   |            |                                     |    |   |              |  |   |                       |     |   |  |  |                        |  |  |  |    |          |    |          |    |                 |    |       |    |           |    |          |    |      |    |               |    |            |    |               |             |                                       |  |  |        |   |  |  |           |  |  |  |       |                      |  |  |
| SS  | Stainless Steel   | BR   | Brass   |                        |  |                 |  |        |  |    |                            |          |  |    |                                 |        |                        |    |   |            |   |    |   |            |                                     |    |   |              |  |   |                       |     |   |  |  |                        |  |  |  |    |          |    |          |    |                 |    |       |    |           |    |          |    |      |    |               |    |            |    |               |             |                                       |  |  |        |   |  |  |           |  |  |  |       |                      |  |  |
| CI  | Cast Iron   | PL   | Platinum  |                        |  |                 |  |        |  |    |                            |          |  |    |                                 |        |                        |    |   |            |   |    |   |            |                                     |    |   |              |  |   |                       |     |   |  |  |                        |  |  |  |    |          |    |          |    |                 |    |       |    |           |    |          |    |      |    |               |    |            |    |               |             |                                       |  |  |        |   |  |  |           |  |  |  |       |                      |  |  |
| IR  | Iron  | NS   | Nickel Silver   |                        |  |                 |  |        |  |    |                            |          |  |    |                                 |        |                        |    |   |            |   |    |   |            |                                     |    |   |              |  |   |                       |     |   |  |  |                        |  |  |  |    |          |    |          |    |                 |    |       |    |           |    |          |    |      |    |               |    |            |    |               |             |                                       |  |  |        |   |  |  |           |  |  |  |       |                      |  |  |
| MS  | Mild Steel  | OR   | Other/Unknown   |                        |  |                 |  |        |  |    |                            |          |  |    |                                 |        |                        |    |   |            |   |    |   |            |                                     |    |   |              |  |   |                       |     |   |  |  |                        |  |  |  |    |          |    |          |    |                 |    |       |    |           |    |          |    |      |    |               |    |            |    |               |             |                                       |  |  |        |   |  |  |           |  |  |  |       |                      |  |  |
| Magnetic Wt   | ★★ Indicates replaced magnetic weight   |  |   |                        |  |                 |  |        |  |    |                            |          |  |    |                                 |        |                        |    |   |            |   |    |   |            |                                     |    |   |              |  |   |                       |     |   |  |  |                        |  |  |  |    |          |    |          |    |                 |    |       |    |           |    |          |    |      |    |               |    |            |    |               |             |                                       |  |  |        |   |  |  |           |  |  |  |       |                      |  |  |
| Design  | ⊗ Indicates the weight does not meet the design or shape requirements         |  |   |                        |  |                 |  |        |  |    |                            |          |  |    |                                 |        |                        |    |   |            |   |    |   |            |                                     |    |   |              |  |   |                       |     |   |  |  |                        |  |  |  |    |          |    |          |    |                 |    |       |    |           |    |          |    |      |    |               |    |            |    |               |             |                                       |  |  |        |   |  |  |           |  |  |  |       |                      |  |  |
| Repainted   | ■ Indicates the weight was repainted after As Found obtained                  |  |   |                        |  |                 |  |        |  |    |                            |          |  |    |                                 |        |                        |    |   |            |   |    |   |            |                                     |    |   |              |  |   |                       |     |   |  |  |                        |  |  |  |    |          |    |          |    |                 |    |       |    |           |    |          |    |      |    |               |    |            |    |               |             |                                       |  |  |        |   |  |  |           |  |  |  |       |                      |  |  |
| Other   | ⬆ See comments above  |  |   |                        |  |                 |  |        |  |    |                            |          |  |    |                                 |        |                        |    |   |            |   |    |   |            |                                     |    |   |              |  |   |                       |     |   |  |  |                        |  |  |  |    |          |    |          |    |                 |    |       |    |           |    |          |    |      |    |               |    |            |    |               |             |                                       |  |  |        |   |  |  |           |  |  |  |       |                      |  |  |
| <p>Check with your local state agency for certification of compliance on Legal-for-Trade items. The weight accuracy class is referenced in the Description of Weights. Unless otherwise noted, the weights calibrated meet the requirements of the accuracy class. Results relate only to weights calibrated. The Surface Finishes of weights are evaluated visually. Weights are screened for magnetism using work instruction WI05-0035 when they are new, when requested by the customer or when weights are suspected of not meeting specifications. Density if measured is measured using OIML R111-1 (2004) method A2. Conventional Mass is reported based on a reference density of 8.0 g/cm<sup>3</sup>. The Uncertainty of Measurement is included in the determination of Maximum Permissible Error (MPE) Pass/Fail Criteria. The specifications for Maximum Permissible Error (MPE) can be found in NIST Handbook 105-1 (2019), NIST Handbook 105-1 (1990), ASTM E817-18 or OIML R111-1 (2004), manufacturer specifications or customer specifications.</p> <p>The Uncertainty assigned to the Conventional Mass values are the result of the root-sum-square of the type A and type B components, calculated in accordance with NIST SOP 29 and the Guide to the expression of uncertainty in measurement, with coverage factor (<i>k</i>=2), to express the expanded uncertainty with an approximate 95.45% confidence level. This report is not to be used to claim product certification, approval, or endorsement by NVLAP, NIST, A2LA, or any government agency. This document and all data within, shall not be reproduced, except in full, without the written approval of Rice Lake Weighing Systems.</p>   |   |  |   |                        |  |                 |  |        |  |    |                            |          |  |    |                                 |        |                        |    |   |            |   |    |   |            |                                     |    |   |              |  |   |                       |     |   |  |  |                        |  |  |  |    |          |    |          |    |                 |    |       |    |           |    |          |    |      |    |               |    |            |    |               |             |                                       |  |  |        |   |  |  |           |  |  |  |       |                      |  |  |
| <br>Dan Demers, Metrologist  |   | 30 Sep 2022<br>Issued Date:  |   |                        |  |                 |  |        |  |    |                            |          |  |    |                                 |        |                        |    |   |            |   |    |   |            |                                     |    |   |              |  |   |                       |     |   |  |  |                        |  |  |  |    |          |    |          |    |                 |    |       |    |           |    |          |    |      |    |               |    |            |    |               |             |                                       |  |  |        |   |  |  |           |  |  |  |       |                      |  |  |
| 9 Prepared By:<br>Rice Lake Weighing Systems® • PN 64784 • 12/21<br>230 West Coleman Street • Rice Lake, WI 54868 • USA<br>TEL: 715-234-6171 • FAX: 715-234-6967<br>Definitions: <a href="http://certs.ricelake.com/certs/DefinitionsV2.docx">http://certs.ricelake.com/certs/DefinitionsV2.docx</a><br>Page 1 of 2   |   |  |   |                        |  |                 |  |        |  |    |                            |          |  |    |                                 |        |                        |    |   |            |   |    |   |            |                                     |    |   |              |  |   |                       |     |   |  |  |                        |  |  |  |    |          |    |          |    |                 |    |       |    |           |    |          |    |      |    |               |    |            |    |               |             |                                       |  |  |        |   |  |  |           |  |  |  |       |                      |  |  |

Procedure used:  
Internationally published procedures defined by NIST, ASTM and OIML

## The Certificate of Weight Calibration (non-accredited) includes the following information:

- 1 Traceable Certificate Number
- 2 Contractor (sold to) name and address
- 3 End user name and address
- 4 Date Calibrated
- 5 Recalibration Date (if requested)
- 6 NIST Certificate of Calibration Number
- 7 Procedure used (Intercomparison Method)
- 8 Identification of the calibrated item(s) and serial number, if applicable
- 9 Name and address of the calibration laboratory
- 10 Nominal Mass
- 11 True Mass (Mass in Vacuum)
- 12 True Mass Correction<sup>0</sup>
- 13 Conventional Mass: mass of a weight of a density of 8000 kg/m<sup>3</sup> which it balances in air of density of 1.2 kg/m<sup>3</sup>
- 14 Conventional Mass Correction<sup>1</sup>
- 15 A stated quantity of the estimated value of uncertainty<sup>2</sup>
- 16 Maximum Permissible Error for the specified accuracy class
- 17 Assumed material density of the weight being calibrated
- 18 Environmental conditions to time of calibration
- 19 Record of the weighing instrument(s)
- 20 Reference standard set used to calibrate item(s) listed on certificate

<sup>0</sup> The True Mass Correction is the deviation from the Nominal Value, reported in milligrams. A minus sign indicates that the True Mass of the weight is less than the nominal value.

<sup>1</sup> The Conventional Mass Correction is the deviation from the Nominal Value, reported in milligrams. A minus sign indicates that the Conventional Mass of the weight is less than the nominal value.

<sup>2</sup> All measurements have a degree of uncertainty regardless of precision and accuracy. This is caused by two factors, the limitation of the measuring instrument (systematic error) and the skill of the experimenter making the measurements (random error).

RICE LAKE

Certificate of Weight Calibration

Traceable Certificate Number: 1234567  
 Client: Rice Lake Weighing Systems  
 Date Calibrated: 26 Sep 2022 to 27 Sep 2022

Temperature Range: 18 20.62 °C to 20.81 °C  
 Pressure Range: 736.58 mmHg to 740.90 mmHg  
 Relative Humidity Range: 42 % to 51 %

As Left Data (As Found Data is undifferentiated from As Left Data unless listed in As Found Data table)

| Nominal Value | Unique ID | True Mass (Same UOM as Nom.) | True Mass Corr. (mg) | Conv. Mass (Same UOM as Nom.) | Conv. Mass Corr. (mg) | (k=2) Unc. (± mg) | MPE (± mg) | MPE Pass (Y=Pass N=Fail) | Assumed Density (g/cm <sup>3</sup> ) | Assumed Material | Const. Type | Balance Used | Reference Standard Set Used | Air Density (mg/cm <sup>3</sup> ) | Clean Level |
|---------------|-----------|------------------------------|----------------------|-------------------------------|-----------------------|-------------------|------------|--------------------------|--------------------------------------|------------------|-------------|--------------|-----------------------------|-----------------------------------|-------------|
| 2 mg          |           | 2.00162                      | 0.00162              | 2.00161                       | 0.00161               | 0.00062           | 0.010      | Y                        | 7.95                                 | SS               | I           | 1605Q        | K594Q                       | 1.1659                            | A           |
| 3 mg          |           | 2.99858                      | -0.00142             | 2.99858                       | -0.00142              | 0.00062           | 0.010      | Y                        | 7.95                                 | SS               | I           | 1605Q        | K594Q                       | 1.1659                            | A           |
| 5 mg          |           | 5.00303                      | 0.00303              | 5.00302                       | 0.00302               | 0.00071           | 0.010      | Y                        | 7.95                                 | SS               | I           | 1605Q        | K594Q                       | 1.1660                            | A           |
| 10 mg         |           | 10.00376                     | 0.00376              | 10.00375                      | 0.00375               | 0.00097           | 0.010      | Y                        | 7.95                                 | SS               | I           | 1605Q        | K594Q                       | 1.1661                            | A           |
| 20 mg         |           | 20.00359                     | 0.00359              | 20.00357                      | 0.00357               | 0.00081           | 0.010      | Y                        | 7.95                                 | SS               | I           | 1605Q        | K594Q                       | 1.1661                            | A           |
| 30 mg         |           | 30.00011                     | 0.00011              | 30.00008                      | 0.00008               | 0.00081           | 0.010      | Y                        | 7.95                                 | SS               | I           | 1605Q        | K594Q                       | 1.1661                            | A           |
| 50 mg         |           | 49.9991                      | -0.0009              | 49.9990                       | -0.0010               | 0.0016            | 0.010      | Y                        | 7.95                                 | SS               | I           | 1605Q        | K594Q                       | 1.1662                            | A           |
| 100 mg        |           | 100.0033                     | 0.0033               | 100.0032                      | 0.0032                | 0.0019            | 0.010      | Y                        | 7.95                                 | SS               | I           | 1605Q        | K594Q                       | 1.1662                            | A           |
| 200 mg        |           | 200.0016                     | 0.0016               | 200.0014                      | 0.0014                | 0.0019            | 0.010      | Y                        | 7.95                                 | SS               | I           | 1605Q        | K594Q                       | 1.1663                            | A           |
| 300 mg        |           | 300.0032                     | 0.0032               | 300.0029                      | 0.0029                | 0.0016            | 0.010      | Y                        | 7.95                                 | SS               | I           | 1605Q        | K594Q                       | 1.1664                            | A           |
| 500 mg        |           | 500.0026                     | 0.0026               | 500.0021                      | 0.0021                | 0.0021            | 0.010      | Y                        | 7.95                                 | SS               | I           | 1605Q        | K594Q                       | 1.1664                            | A           |
| 1 g           |           | 1.0000130                    | 0.0130               | 1.0000121                     | 0.0121                | 0.0027            | 0.034      | Y                        | 7.95                                 | SS               | I           | 1605Q        | K594Q                       | 1.1663                            | A           |
| 2 g           |           | 1.9999822                    | -0.0178              | 1.9999803                     | -0.0197               | 0.0031            | 0.034      | Y                        | 7.95                                 | SS               | I           | 1605Q        | K594Q                       | 1.1662                            | A           |
| 3 g           |           | 3.0000197                    | 0.0197               | 3.0000168                     | 0.0168                | 0.0033            | 0.034      | Y                        | 7.95                                 | SS               | I           | 1605Q        | K594Q                       | 1.1663                            | A           |
| 5 g           |           | 5.0000101                    | 0.0101               | 5.0000054                     | 0.0054                | 0.0055            | 0.034      | Y                        | 7.95                                 | SS               | I           | 1605Q        | K594Q                       | 1.1664                            | A           |
| 10 g          |           | 10.000031                    | 0.031                | 10.000021                     | 0.021                 | 0.011             | 0.050      | Y                        | 7.95                                 | SS               | II          | 676Q         | K594Q                       | 1.1664                            | A           |
| 20 g          |           | 20.000042                    | 0.042                | 20.000023                     | 0.023                 | 0.012             | 0.074      | Y                        | 7.95                                 | SS               | II          | 676Q         | K594Q                       | 1.1663                            | A           |
| 30 g          |           | 30.000008                    | 0.008                | 29.999980                     | -0.020                | 0.019             | 0.074      | Y                        | 7.95                                 | SS               | II          | 1631Q        | K594Q                       | 1.1659                            | A           |
| 50 g          |           | 49.999981                    | -0.019               | 49.999934                     | -0.066                | 0.027             | 0.12       | Y                        | 7.95                                 | SS               | II          | 1631Q        | K594Q                       | 1.1657                            | A           |
| ★ 100 g       |           | 100.000281                   | 0.281                | 100.000187                    | 0.187                 | 0.052             | 0.25       | Y                        | 7.95                                 | SS               | II          | 1631Q        | K594Q                       | 1.1595                            | A           |

As Found Data

| Nominal Value | Unique ID | True Mass (Same UOM as Nom.) | True Mass Corr. (mg) | Conv. Mass (Same UOM as Nom.) | Conv. Mass Corr. (mg) | (k=2) Unc. (± mg) | MPE (± mg) | MPE Pass (Y=Pass N=Fail) | Assumed Density (g/cm <sup>3</sup> ) | Assumed Material | Const. Type | Balance Used | Reference Standard Set Used | Air Density (mg/cm <sup>3</sup> ) | Clean Level |
|---------------|-----------|------------------------------|----------------------|-------------------------------|-----------------------|-------------------|------------|--------------------------|--------------------------------------|------------------|-------------|--------------|-----------------------------|-----------------------------------|-------------|
| ★ 100 g       |           | 99.999884                    | -0.116               | 99.999789                     | -0.211                | 0.052             | 0.25       | N                        | 7.95                                 | SS               | II          | 1631Q        | K594Q                       | 1.1658                            | A           |

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