

## HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

### Site Information

|            |                     |          |          |           |             |
|------------|---------------------|----------|----------|-----------|-------------|
| Location:  | Man Cheong Building | Site ID: | W-A6     | Date:     | 17-Aug-2024 |
| Serial No: | 1050                | Model:   | TE-5170X | Operator: | Andy Li     |

### Ambient Condition

|                                                       |       |                                                          |       |
|-------------------------------------------------------|-------|----------------------------------------------------------|-------|
| Actual Pressure during Calibration ( $P_a$ ) (mm Hg): | 755.1 | Actual Temperature during Calibration ( $T_a$ ) (deg K): | 300.5 |
|-------------------------------------------------------|-------|----------------------------------------------------------|-------|

### Calibration Orifice

|                       |           |                      |          |
|-----------------------|-----------|----------------------|----------|
| Model:                | TE-5025A  | Slope ( $m_c$ ):     | 2.06920  |
| Serial No.:           | 3465      | Intercept ( $b_c$ ): | -0.02547 |
| Calibration Due Date: | 15-Jan-25 | Corr. Coeff:         | 0.99999  |

### Calibration Data

| Plate or Test # | $\Delta H_2O$ (in) | $Q_a$ , X-Axis ( $m^3/min$ ) | I, CFM (chart) | IC, Y-Axis (corrected) |
|-----------------|--------------------|------------------------------|----------------|------------------------|
| 18              | 11.80              | 1.660                        | 61.0           | 60.55                  |
| 13              | 8.90               | 1.444                        | 55.0           | 54.60                  |
| 10              | 6.40               | 1.226                        | 49.0           | 48.64                  |
| 7               | 4.10               | 0.984                        | 44.0           | 43.68                  |
| 5               | 3.50               | 0.910                        | 41.0           | 40.70                  |

Sampler Calibration Relationship ( $Q_a$  on x-axis, IC on y-axis)

$m =$  25.6837       $b =$  17.6667      Corr. Coeff: 0.9981

### Calculations

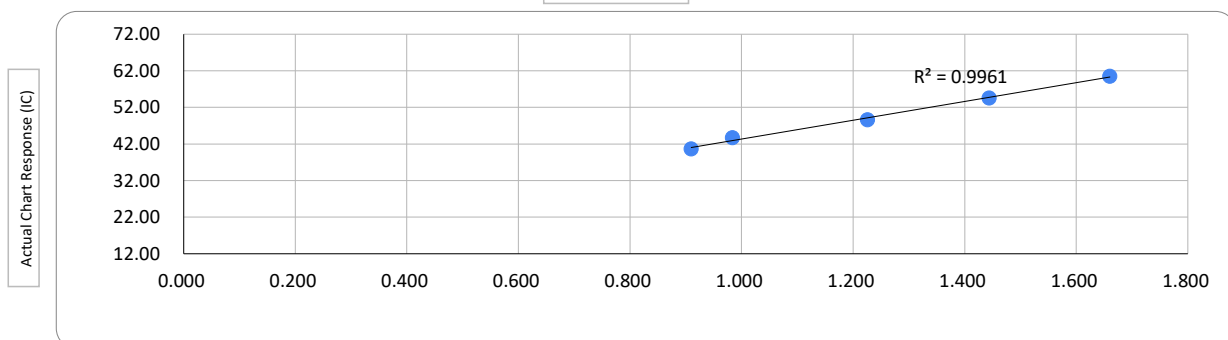
$$Q_a = 1/m_c [\text{Sqrt}(\Delta H_2O * (P_a/P_{Std}) * (T_{Std}/T_a)) - b_c]$$

$$IC = I * (\text{Sqrt}(P_a/P_{Std}) * (T_{Std}/T_a))$$

$Q_a$  = actual flow rate  
 $IC$  = corrected chart response  
 $I$  = actual chart response  
 $m_c$  = calibrator slope  
 $b_c$  = calibrator intercept

$m$  = sampler slope  
 $b$  = sampler intercept  
 $T_{Std}$  = 298 deg K  
 $P_{Std}$  = 760 mm Hg  
 $T_a$  = actual temperature during calibration (deg K)  
 $P_a$  = actual pressure during calibration (mm Hg)

Flow Rate Chart



Standard Flow Rate (m3/min)

Checked by: Andy Li  
 Project Technician, Environmental

Date: 17-Aug-2024

# Certificate of Calibration

## Calibration Certification Information

Cal. Date: January 15, 2024      Rootsmeter S/N: 438320      Ta: 294 °K  
Operator: Jim Tisch      Pa: 755.9 mm Hg  
Calibration Model #: TE-5025A      Calibrator S/N: 3465

| Run | Vol. Init (m3) | Vol. Final (m3) | ΔVol. (m3) | ΔTime (min) | ΔP (mm Hg) | ΔH (in H2O) |
|-----|----------------|-----------------|------------|-------------|------------|-------------|
| 1   | 1              | 2               | 1          | 1.4350      | 3.3        | 2.00        |
| 2   | 3              | 4               | 1          | 1.0180      | 6.4        | 4.00        |
| 3   | 5              | 6               | 1          | 0.9090      | 8.0        | 5.00        |
| 4   | 7              | 8               | 1          | 0.8670      | 8.9        | 5.50        |
| 5   | 9              | 10              | 1          | 0.7150      | 12.9       | 8.00        |

## Data Tabulation

| Vstd (m3)   | Qstd (x-axis) | $\sqrt{\Delta H \left( \frac{Pa}{Pstd} \right) \left( \frac{Tstd}{Ta} \right)}$ (y-axis) | Va        | Qa (x-axis) | $\sqrt{\Delta H \left( \frac{Ta}{Pa} \right)}$ (y-axis) |
|-------------|---------------|------------------------------------------------------------------------------------------|-----------|-------------|---------------------------------------------------------|
| 1.0037      | 0.6995        | 1.4200                                                                                   | 0.9956    | 0.6938      | 0.8820                                                  |
| 0.9996      | 0.9819        | 2.0081                                                                                   | 0.9915    | 0.9740      | 1.2473                                                  |
| 0.9975      | 1.0973        | 2.2452                                                                                   | 0.9894    | 1.0885      | 1.3945                                                  |
| 0.9963      | 1.1491        | 2.3547                                                                                   | 0.9882    | 1.1398      | 1.4626                                                  |
| 0.9909      | 1.3859        | 2.8399                                                                                   | 0.9829    | 1.3747      | 1.7639                                                  |
| <b>QSTD</b> | m=            | <b>2.06920</b>                                                                           | <b>QA</b> | m=          | <b>1.29570</b>                                          |
|             | b=            | <b>-0.02547</b>                                                                          |           | b=          | <b>-0.01582</b>                                         |
|             | r=            | <b>0.99999</b>                                                                           |           | r=          | <b>0.99999</b>                                          |

## Calculations

|                                                                                                                                    |                                           |                                                                                                 |                                |
|------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------------------------------------------------------------|--------------------------------|
| Vstd=                                                                                                                              | $\Delta Vol((Pa-\Delta P)/Pstd)(Tstd/Ta)$ | Va=                                                                                             | $\Delta Vol((Pa-\Delta P)/Pa)$ |
| Qstd=                                                                                                                              | Vstd/ΔTime                                | Qa=                                                                                             | Va/ΔTime                       |
| For subsequent flow rate calculations:                                                                                             |                                           |                                                                                                 |                                |
| <b>Qstd=</b> $1/m \left( \left( \sqrt{\Delta H \left( \frac{Pa}{Pstd} \right) \left( \frac{Tstd}{Ta} \right)} \right) - b \right)$ |                                           | <b>Qa=</b> $1/m \left( \left( \sqrt{\Delta H \left( \frac{Ta}{Pa} \right)} \right) - b \right)$ |                                |

## Standard Conditions

|                                           |           |
|-------------------------------------------|-----------|
| Tstd:                                     | 298.15 °K |
| Pstd:                                     | 760 mm Hg |
| <b>Key</b>                                |           |
| ΔH: calibrator manometer reading (in H2O) |           |
| ΔP: rootsmeter manometer reading (mm Hg)  |           |
| Ta: actual absolute temperature (°K)      |           |
| Pa: actual barometric pressure (mm Hg)    |           |
| b: intercept                              |           |
| m: slope                                  |           |

## RECALIBRATION

US EPA recommends annual recalibration per 1998 40 Code of Federal Regulations Part 50 to 51, Appendix B to Part 50, Reference Method for the Determination of Suspended Particulate Matter in the Atmosphere, 9.2.17, page 30

**Sibata LD-5R K-Factor Verification Test by Total Suspended Particulates HVS Test Report**

**Information of Calibrated Equipment**

|                             |                     |    |                  |                              |                  |
|-----------------------------|---------------------|----|------------------|------------------------------|------------------|
| Verification Test Date:     | <b>17-Aug-24</b>    | to | <b>18-Aug-24</b> | Next Verification Test Date: | <b>17-Aug-25</b> |
| Unit-under-Test- Model No.: | Sibata LD-5R        |    |                  |                              |                  |
| Unit-under-Test Serial No.: | 467356              |    |                  |                              |                  |
| Our Report Reference No.:   | RPT-24-HVS-0080     |    |                  |                              |                  |
| Calibration Location:       | Man Cheong Building |    |                  |                              |                  |

**Standard Equipment Information**

|                               |               |                      |
|-------------------------------|---------------|----------------------|
| Verification Equipment Type:  | Tisch TSP HVS | Tisch HVS Calibrator |
| Standard Equipment Model No.: | TE-5170X      | TE-5025A             |
| Equipment serial no.:         | 1050          | 3465                 |
| Last Calibration Date:        | 17-Aug-24     | 16-Jan-24            |
| Next Calibration Date:        | 30-Aug-24     | 15-Jan-25            |

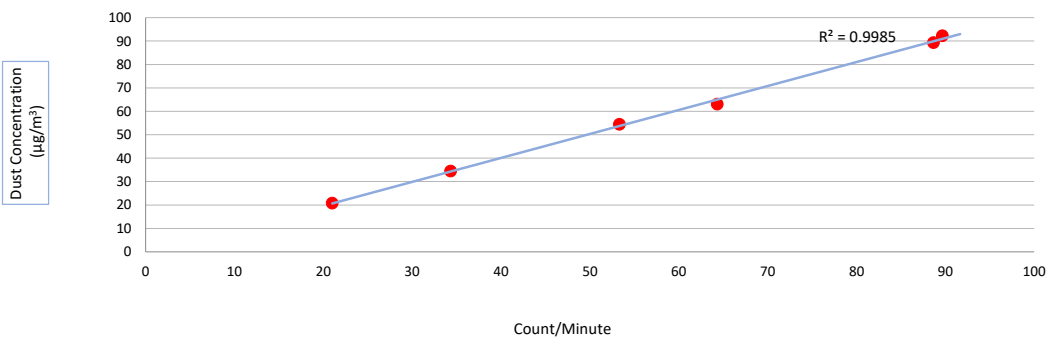
**Equipment Verification Result**

| Verification Test No. | Date       | Duration   |          |                       | Results from Calibrated Equipment |                       | Results from Standard Equipment                        |
|-----------------------|------------|------------|----------|-----------------------|-----------------------------------|-----------------------|--------------------------------------------------------|
|                       |            | Start-time | End-time | Elapsed Time (in min) | Total Counts                      | Counts/ Minute x-axis | Dust Concentration ( $\mu\text{g}/\text{m}^3$ ) y-axis |
| 1                     | 17/08/2024 | 11832.91   | 11835.91 | 180.00                | 16140                             | 90                    | 92                                                     |
| 2                     | 17/08/2024 | 11835.91   | 11838.91 | 180.00                | 9600                              | 53                    | 54                                                     |
| 3                     | 17/08/2024 | 11838.91   | 11841.91 | 180.00                | 15960                             | 89                    | 89                                                     |
| 4                     | 18/07/2024 | 11841.94   | 11844.94 | 180.00                | 6180                              | 34                    | 34                                                     |
| 5                     | 18/07/2024 | 11844.94   | 11847.94 | 180.00                | 3780                              | 21                    | 21                                                     |
| 6                     | 18/07/2024 | 11847.94   | 11850.94 | 180.00                | 11580                             | 64                    | 63                                                     |

**Linear Regression of y on x**

|                           |                                                   |            |                       |                                                                                         |                      |
|---------------------------|---------------------------------------------------|------------|-----------------------|-----------------------------------------------------------------------------------------|----------------------|
| Slope, K factor:          | <b><u>1.0232</u></b>                              | Intercept: | <b><u>-0.8300</u></b> | *Correlation Coefficient, R:                                                            | <b><u>0.9992</u></b> |
| Verification Test Result: | <u>Strong Correlation, Results were accepted.</u> |            |                       | * If the Correlation Coefficient, R is <0.5. Checking and Re-verification are required. |                      |

Verification Curve



Operated By:

Andy Li

Project Technician, Environmental

Date: 23-08-2024

Checked By:

Tandy Tse

Senior Consultant, Environmental

Date: 23-08-2024

**Sibata LD-5R K-Factor Verification Test by Total Suspended Particulates HVS Test Report**

**Information of Calibrated Equipment**

|                             |                     |    |                  |                              |                  |
|-----------------------------|---------------------|----|------------------|------------------------------|------------------|
| Verification Test Date:     | <b>17-Aug-24</b>    | to | <b>18-Aug-24</b> | Next Verification Test Date: | <b>17-Aug-25</b> |
| Unit-under-Test- Model No.: | Sibata LD-5R        |    |                  |                              |                  |
| Unit-under-Test Serial No.: | 467357              |    |                  |                              |                  |
| Our Report Reference No.:   | RPT-24-HVS-0081     |    |                  |                              |                  |
| Calibration Location:       | Man Cheong Building |    |                  |                              |                  |

**Standard Equipment Information**

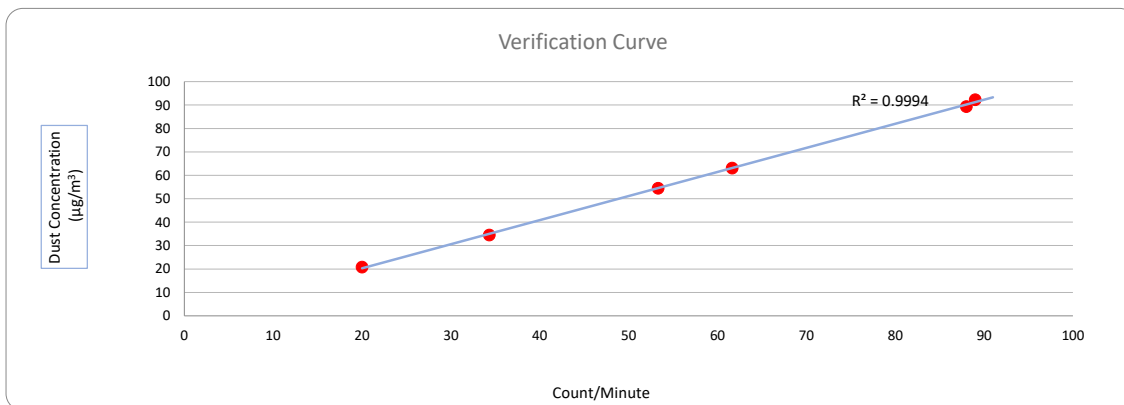
|                               |               |                      |
|-------------------------------|---------------|----------------------|
| Verification Equipment Type:  | Tisch TSP HVS | Tisch HVS Calibrator |
| Standard Equipment Model No.: | TE-5170X      | TE-5025A             |
| Equipment serial no.:         | 1050          | 3465                 |
| Last Calibration Date:        | 17-Aug-24     | 16-Jan-24            |
| Next Calibration Date:        | 30-Aug-24     | 15-Jan-25            |

**Equipment Verification Result**

| Verification Test No. | Date       | Duration   |          |                       | Results from Calibrated Equipment |                       | Results from Standard Equipment                        |
|-----------------------|------------|------------|----------|-----------------------|-----------------------------------|-----------------------|--------------------------------------------------------|
|                       |            | Start-time | End-time | Elapsed Time (in min) | Total Counts                      | Counts/ Minute x-axis | Dust Concentration ( $\mu\text{g}/\text{m}^3$ ) y-axis |
| 1                     | 17/08/2024 | 11832.91   | 11835.91 | 180.00                | 16020                             | 89                    | 92                                                     |
| 2                     | 17/08/2024 | 11835.91   | 11838.91 | 180.00                | 9600                              | 53                    | 54                                                     |
| 3                     | 17/08/2024 | 11838.91   | 11841.91 | 180.00                | 15840                             | 88                    | 89                                                     |
| 4                     | 18/07/2024 | 11841.94   | 11844.94 | 180.00                | 6180                              | 34                    | 34                                                     |
| 5                     | 18/07/2024 | 11844.94   | 11847.94 | 180.00                | 3600                              | 20                    | 21                                                     |
| 6                     | 18/07/2024 | 11847.94   | 11850.94 | 180.00                | 11100                             | 62                    | 63                                                     |

**Linear Regression of y on x**

|                           |                                                          |            |                       |                                                                                         |                      |
|---------------------------|----------------------------------------------------------|------------|-----------------------|-----------------------------------------------------------------------------------------|----------------------|
| Slope, K factor:          | <b><u>1.0280</u></b>                                     | Intercept: | <b><u>-0.2511</u></b> | *Correlation Coefficient,R:                                                             | <b><u>0.9997</u></b> |
| Verification Test Result: | <b><u>Strong Correlation, Results were accepted.</u></b> |            |                       | * If the Correlation Coefficient, R is <0.5. Checking and Re-verification are required. |                      |



Operated By:

Andy Li

Project Technician, Environmental

Date: 23-08-2024

Checked By:

Tandy Tse

Senior Consultant, Environmental

Date: 23-08-2024

**Sibata LD-5R K-Factor Verification Test by Total Suspended Particulates HVS Test Report**

**Information of Calibrated Equipment**

|                             |                     |    |                  |                              |                  |
|-----------------------------|---------------------|----|------------------|------------------------------|------------------|
| Verification Test Date:     | <b>17-Aug-24</b>    | to | <b>18-Aug-24</b> | Next Verification Test Date: | <b>17-Aug-25</b> |
| Unit-under-Test- Model No.: | Sibata LD-5R        |    |                  |                              |                  |
| Unit-under-Test Serial No.: | 467358              |    |                  |                              |                  |
| Our Report Reference No.:   | RPT-24-HVS-0082     |    |                  |                              |                  |
| Calibration Location:       | Man Cheong Building |    |                  |                              |                  |

**Standard Equipment Information**

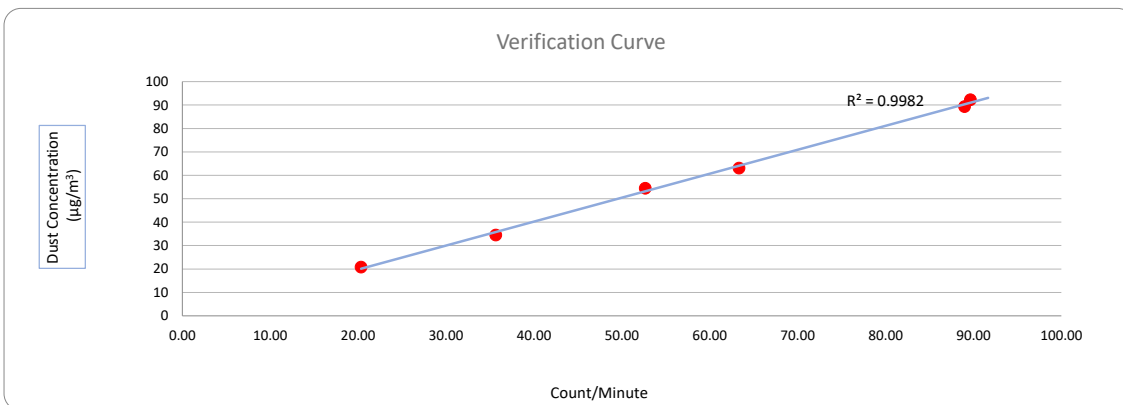
|                               |               |                      |
|-------------------------------|---------------|----------------------|
| Verification Equipment Type:  | Tisch TSP HVS | Tisch HVS Calibrator |
| Standard Equipment Model No.: | TE-5170X      | TE-5025A             |
| Equipment serial no.:         | 1050          | 3465                 |
| Last Calibration Date:        | 17-Aug-24     | 16-Jan-24            |
| Next Calibration Date:        | 30-Aug-24     | 15-Jan-25            |

**Equipment Verification Result**

| Verification Test No. | Date       | Duration   |          |                       | Results from Calibrated Equipment |                       | Results from Standard Equipment                        |
|-----------------------|------------|------------|----------|-----------------------|-----------------------------------|-----------------------|--------------------------------------------------------|
|                       |            | Start-time | End-time | Elapsed Time (in min) | Total Counts                      | Counts/ Minute x-axis | Dust Concentration ( $\mu\text{g}/\text{m}^3$ ) y-axis |
| 1                     | 17/08/2024 | 11832.91   | 11835.91 | 180.00                | 16140                             | 89.67                 | 92                                                     |
| 2                     | 17/08/2024 | 11835.91   | 11838.91 | 180.00                | 9480                              | 52.67                 | 54                                                     |
| 3                     | 17/08/2024 | 11838.91   | 11841.91 | 180.00                | 16020                             | 89.00                 | 89                                                     |
| 4                     | 18/07/2024 | 11841.94   | 11844.94 | 180.00                | 6420                              | 35.67                 | 34                                                     |
| 5                     | 18/07/2024 | 11844.94   | 11847.94 | 180.00                | 3660                              | 20.33                 | 21                                                     |
| 6                     | 18/07/2024 | 11847.94   | 11850.94 | 180.00                | 11400                             | 63.33                 | 63                                                     |

**Linear Regression of y on x**

|                           |                                                   |            |                       |                                                                                         |                      |
|---------------------------|---------------------------------------------------|------------|-----------------------|-----------------------------------------------------------------------------------------|----------------------|
| Slope, K factor:          | <b><u>1.0225</u></b>                              | Intercept: | <b><u>-0.6726</u></b> | *Correlation Coefficient,R:                                                             | <b><u>0.9991</u></b> |
| Verification Test Result: | <u>Strong Correlation, Results were accepted.</u> |            |                       | * If the Correlation Coefficient, R is <0.5. Checking and Re-verification are required. |                      |



Operated By:

Andy Li

Project Technician, Environmental

Date: 23-08-2024

Checked By:

Tandy Tse

Senior Consultant, Environmental

Date: 23-08-2024

**Sibata LD-5R K-Factor Verification Test by Total Suspended Particulates HVS Test Report**

**Information of Calibrated Equipment**

|                             |                     |    |                  |                              |                  |
|-----------------------------|---------------------|----|------------------|------------------------------|------------------|
| Verification Test Date:     | <b>17-Aug-24</b>    | to | <b>18-Aug-24</b> | Next Verification Test Date: | <b>17-Aug-25</b> |
| Unit-under-Test- Model No.: | Sibata LD-5R        |    |                  |                              |                  |
| Unit-under-Test Serial No.: | 467359              |    |                  |                              |                  |
| Our Report Reference No.:   | RPT-24-HVS-0083     |    |                  |                              |                  |
| Calibration Location:       | Man Cheong Building |    |                  |                              |                  |

**Standard Equipment Information**

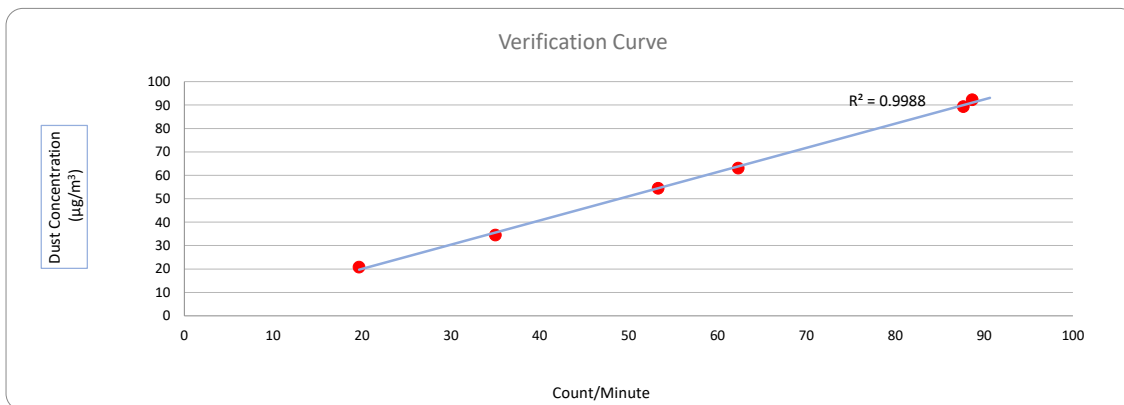
|                               |               |                      |
|-------------------------------|---------------|----------------------|
| Verification Equipment Type:  | Tisch TSP HVS | Tisch HVS Calibrator |
| Standard Equipment Model No.: | TE-5170X      | TE-5025A             |
| Equipment serial no.:         | 1050          | 3465                 |
| Last Calibration Date:        | 17-Aug-24     | 16-Jan-24            |
| Next Calibration Date:        | 30-Aug-24     | 15-Jan-25            |

**Equipment Verification Result**

| Verification Test No. | Date       | Duration   |          |                       | Results from Calibrated Equipment |                       | Results from Standard Equipment                        |
|-----------------------|------------|------------|----------|-----------------------|-----------------------------------|-----------------------|--------------------------------------------------------|
|                       |            | Start-time | End-time | Elapsed Time (in min) | Total Counts                      | Counts/ Minute x-axis | Dust Concentration ( $\mu\text{g}/\text{m}^3$ ) y-axis |
| 1                     | 17/08/2024 | 11832.91   | 11835.91 | 180.00                | 15960                             | 89                    | 92                                                     |
| 2                     | 17/08/2024 | 11835.91   | 11838.91 | 180.00                | 9600                              | 53                    | 54                                                     |
| 3                     | 17/08/2024 | 11838.91   | 11841.91 | 180.00                | 15780                             | 88                    | 89                                                     |
| 4                     | 18/07/2024 | 11841.94   | 11844.94 | 180.00                | 6300                              | 35                    | 34                                                     |
| 5                     | 18/07/2024 | 11844.94   | 11847.94 | 180.00                | 3540                              | 20                    | 21                                                     |
| 6                     | 18/07/2024 | 11847.94   | 11850.94 | 180.00                | 11220                             | 62                    | 63                                                     |

**Linear Regression of y on x**

|                           |                                                   |            |                |                                                                                         |               |
|---------------------------|---------------------------------------------------|------------|----------------|-----------------------------------------------------------------------------------------|---------------|
| Slope, K factor:          | <b>1.0331</b>                                     | Intercept: | <b>-0.6022</b> | *Correlation Coefficient, R:                                                            | <b>0.9994</b> |
| Verification Test Result: | <u>Strong Correlation, Results were accepted.</u> |            |                | * If the Correlation Coefficient, R is <0.5. Checking and Re-verification are required. |               |



Operated By:

Andy Li

Project Technician, Environmental

Date: 23-08-2024

Checked By:

Tandy Tse

Senior Consultant, Environmental

Date: 23-08-2024

**Sibata LD-5R K-Factor Verification Test by Total Suspended Particulates HVS Test Report**

**Information of Calibrated Equipment**

|                             |                     |    |                  |                              |                  |
|-----------------------------|---------------------|----|------------------|------------------------------|------------------|
| Verification Test Date:     | <b>17-Aug-24</b>    | to | <b>18-Aug-24</b> | Next Verification Test Date: | <b>17-Aug-25</b> |
| Unit-under-Test- Model No.: | Sibata LD-5R        |    |                  |                              |                  |
| Unit-under-Test Serial No.: | 467360              |    |                  |                              |                  |
| Our Report Reference No.:   | RPT-24-HVS-0084     |    |                  |                              |                  |
| Calibration Location:       | Man Cheong Building |    |                  |                              |                  |

**Standard Equipment Information**

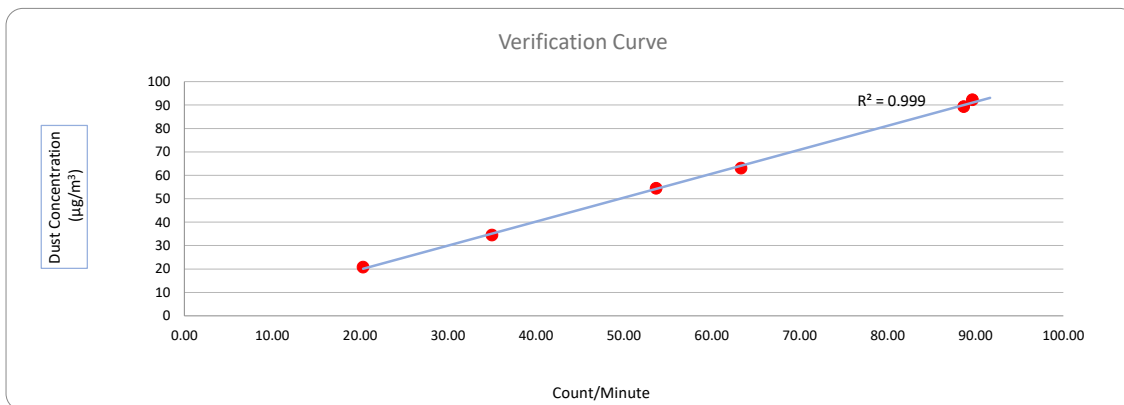
|                               |               |                      |
|-------------------------------|---------------|----------------------|
| Verification Equipment Type:  | Tisch TSP HVS | Tisch HVS Calibrator |
| Standard Equipment Model No.: | TE-5170X      | TE-5025A             |
| Equipment serial no.:         | 1050          | 3465                 |
| Last Calibration Date:        | 17-Aug-24     | 16-Jan-24            |
| Next Calibration Date:        | 30-Aug-24     | 15-Jan-25            |

**Equipment Verification Result**

| Verification Test No. | Date       | Duration   |          |                       | Results from Calibrated Equipment |                       | Results from Standard Equipment                        |
|-----------------------|------------|------------|----------|-----------------------|-----------------------------------|-----------------------|--------------------------------------------------------|
|                       |            | Start-time | End-time | Elapsed Time (in min) | Total Counts                      | Counts/ Minute x-axis | Dust Concentration ( $\mu\text{g}/\text{m}^3$ ) y-axis |
| 1                     | 17/08/2024 | 11832.91   | 11835.91 | 180.00                | 16140                             | 89.67                 | 92                                                     |
| 2                     | 17/08/2024 | 11835.91   | 11838.91 | 180.00                | 9660                              | 53.67                 | 54                                                     |
| 3                     | 17/08/2024 | 11838.91   | 11841.91 | 180.00                | 15960                             | 88.67                 | 89                                                     |
| 4                     | 18/07/2024 | 11841.94   | 11844.94 | 180.00                | 6300                              | 35.00                 | 34                                                     |
| 5                     | 18/07/2024 | 11844.94   | 11847.94 | 180.00                | 3660                              | 20.33                 | 21                                                     |
| 6                     | 18/07/2024 | 11847.94   | 11850.94 | 180.00                | 11400                             | 63.33                 | 63                                                     |

**Linear Regression of y on x**

|                           |                                                   |            |                |                                                                                         |               |
|---------------------------|---------------------------------------------------|------------|----------------|-----------------------------------------------------------------------------------------|---------------|
| Slope, K factor:          | <b>1.0229</b>                                     | Intercept: | <b>-0.6982</b> | *Correlation Coefficient,R:                                                             | <b>0.9995</b> |
| Verification Test Result: | <u>Strong Correlation, Results were accepted.</u> |            |                | * If the Correlation Coefficient, R is <0.5. Checking and Re-verification are required. |               |



Operated By:

Andy Li

Project Technician, Environmental

Date: 23-08-2024

Checked By:

Tandy Tse

Senior Consultant, Environmental

Date: 23-08-2024

**Sibata LD-5R K-Factor Verification Test by Total Suspended Particulates HVS Test Report**

**Information of Calibrated Equipment**

|                             |                     |    |                  |                              |                  |
|-----------------------------|---------------------|----|------------------|------------------------------|------------------|
| Verification Test Date:     | <b>17-Aug-24</b>    | to | <b>18-Aug-24</b> | Next Verification Test Date: | <b>17-Aug-25</b> |
| Unit-under-Test- Model No.: | Sibata LD-5R        |    |                  |                              |                  |
| Unit-under-Test Serial No.: | 467361              |    |                  |                              |                  |
| Our Report Reference No.:   | RPT-24-HVS-0085     |    |                  |                              |                  |
| Calibration Location:       | Man Cheong Building |    |                  |                              |                  |

**Standard Equipment Information**

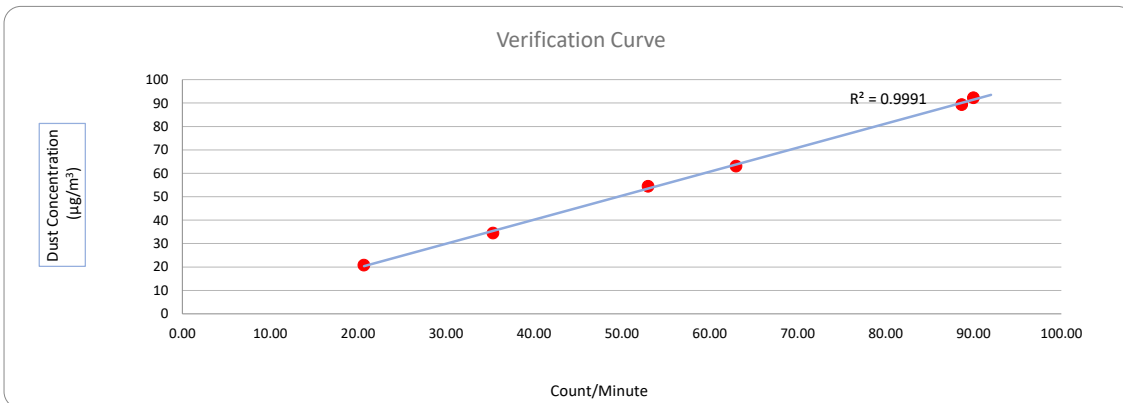
|                               |               |                      |
|-------------------------------|---------------|----------------------|
| Verification Equipment Type:  | Tisch TSP HVS | Tisch HVS Calibrator |
| Standard Equipment Model No.: | TE-5170X      | TE-5025A             |
| Equipment serial no.:         | 1050          | 3465                 |
| Last Calibration Date:        | 17-Aug-24     | 16-Jan-24            |
| Next Calibration Date:        | 30-Aug-24     | 15-Jan-25            |

**Equipment Verification Result**

| Verification Test No. | Date       | Duration   |          |                       | Results from Calibrated Equipment |                       | Results from Standard Equipment                        |
|-----------------------|------------|------------|----------|-----------------------|-----------------------------------|-----------------------|--------------------------------------------------------|
|                       |            | Start-time | End-time | Elapsed Time (in min) | Total Counts                      | Counts/ Minute x-axis | Dust Concentration ( $\mu\text{g}/\text{m}^3$ ) y-axis |
| 1                     | 17/08/2024 | 11832.91   | 11835.91 | 180.00                | 16200                             | 90.00                 | 92                                                     |
| 2                     | 17/08/2024 | 11835.91   | 11838.91 | 180.00                | 9540                              | 53.00                 | 54                                                     |
| 3                     | 17/08/2024 | 11838.91   | 11841.91 | 180.00                | 15960                             | 88.67                 | 89                                                     |
| 4                     | 18/07/2024 | 11841.94   | 11844.94 | 180.00                | 6360                              | 35.33                 | 34                                                     |
| 5                     | 18/07/2024 | 11844.94   | 11847.94 | 180.00                | 3720                              | 20.67                 | 21                                                     |
| 6                     | 18/07/2024 | 11847.94   | 11850.94 | 180.00                | 11340                             | 63.00                 | 63                                                     |

**Linear Regression of y on x**

|                           |                                                          |            |                       |                                                                                         |                      |
|---------------------------|----------------------------------------------------------|------------|-----------------------|-----------------------------------------------------------------------------------------|----------------------|
| Slope, K factor:          | <b><u>1.0251</u></b>                                     | Intercept: | <b><u>-0.8237</u></b> | *Correlation Coefficient,R:                                                             | <b><u>0.9996</u></b> |
| Verification Test Result: | <b><u>Strong Correlation, Results were accepted.</u></b> |            |                       | * If the Correlation Coefficient, R is <0.5. Checking and Re-verification are required. |                      |



Operated By:

Andy Li

Project Technician, Environmental

Date: 23-08-2024

Checked By:

Tandy Tse

Senior Consultant, Environmental

Date: 23-08-2024