# Noise Monitoring -Data Retrieval

Casella CEL-35X

\*May be referenced for dBadge 2

Travelers Laboratory





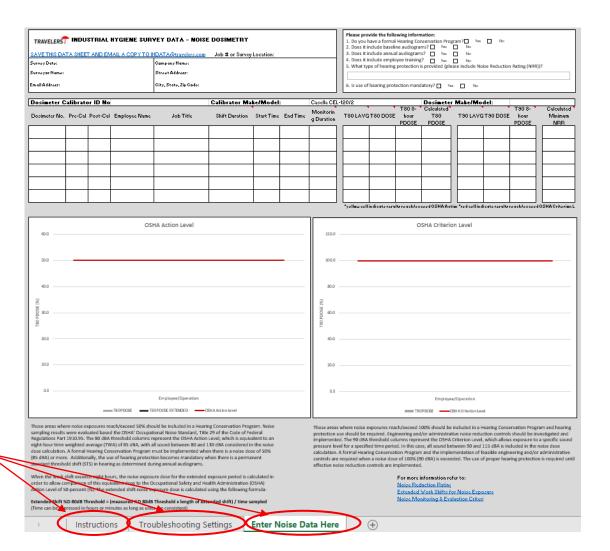
## Important Reminders to Surveyor

- Measurement run must be started/stopped to access data
- 2. Data must be retrieved following each run and will not be accessible if a new measurement run is started before retrieving data
- 3. Record data on Excel sheet provided by email to shipping contact
- 4. If you have any questions or need the Excel noise data sheet, call Travelers IH Helpline 1-800-842-0355



#### **Excel Noise Data Sheet**

- Instructions
  - Noise dosimeter operation and data retrieval
- Troubleshooting Settings
  - To fix data readout
- Enter Noise Data Here
  - To document data

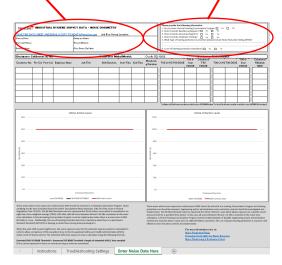




## Survey Information

INDUSTRIAL HYGIENE SURVEY DATA – NOISE DOSIMETRY  SAVE THIS DATA SHEET AND EMAIL A COPY TO IHDATA@travelers.com  Survey Date:  Surveyor Name:  Surveyor Name:  Email Address:  City, State, Zip Code:	Fill out both  sections  completely  Please provide the following information:  1. Do you have a formal Hearing Conservation Program?	
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 Following completion of noise monitoring send data sheet to <a href="IHDATA@travelers.com">IHDATA@travelers.com</a>. For ease of use, click the link in the data sheet as shown

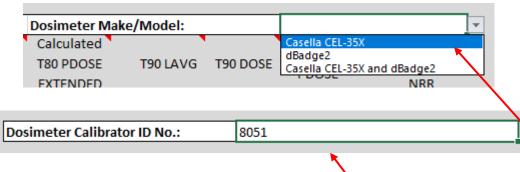


 Please include NRR of hearing protection devices used

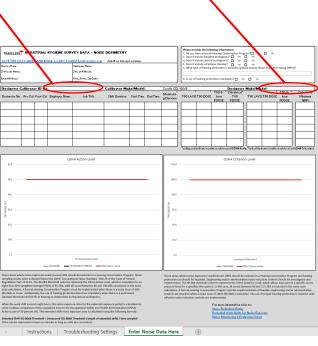


## **Equipment Details**





- Fill out this section as shown above
- Dosimeter Calibrator ID Number varies



Cal. on 5/6/20

dBadge CASELLA

CEL-35X

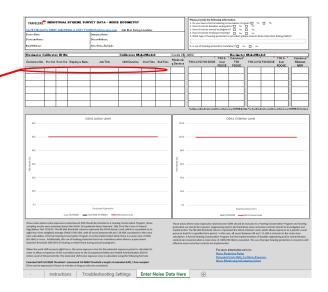
00011083



## Data Entry

Dosimeter No.	Pre-Cal	Post-Cal	Employee Name	Job Title	Shift Duration	Start Time	End Time
11083	114	113.9	Bob	Grinding	10	7:00 AM	1:56 PM

- Dosimeter No. located on front of noise dosimeter
- Pre-Cal and Post-Cal
- **Employee Name**
- Job Title
- Shift Duration
  - What is the shift length employees typically work?
  - This is not the duration of noise monitoring
- Start Time (enter as 07:00), Stop Time (enter as 13:56)
  - Use 24-hour clock to enter times





## Data Entry - Retrieval from Noise Dosimeter

- If you have not already done so, stop the measurement run by holding down both buttons at the same time (stop 3, 2, 1).
- Power on (press LEFT button) your dosimeter if it is turned off and post calibrate
  - For questions on operating the dosimeter or calibrating see the instructional video on Travelers Lab Website:

    <u>Casella CEL-35X Noise Dosimeter Operation</u>
- Scroll through the data by pressing the RIGHT button
  - Remember do not start a new measurement run as only the most recent run is displayed





## Data Entry - Monitoring Duration

				•				
Dosimeter No.	Pre-Cal	Post-Cal	Employee Name	Job Title	Shift Duration	Start Time	End Time	Monitoring Duration
11083	114	113.9	Bob	Grinding	10	7:00 AM	1:56 PM	6:56

- Noise Dosimeter Format is HH:MM:SS
- Enter only HH:MM on data sheet





## Data Entry - LZPK

- Peak noise level measured
  - Peak levels are not needed for interpretation
  - Do not record

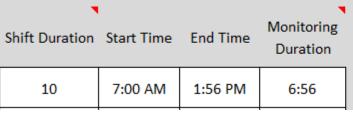






#### Data Entry - T80





T80 LAVG	T80 DOSE	T80 8-hour PDOSE	Calculated T80 PDOSE EXTENDED		
99.3	315.0	363.4	454.3		
3	1	2			



- T80 DOSE (1)
- T80 8-hour PDOSE (2)
- T80 LAVG (3)
- T80 TWA do not record (4)
- LAVG values less than 65, enter as <65
- "---" or 0.0 should be entered if shown



Calculated T80 P. Dose Extended - this value is calculated based on Shift Duration & T80 8-hour PDOSE





## Data Entry - T90





T80 LAVG	T80 DOSE	T80 8-hour PDOSE	Calculated T80 PDOSE EXTENDED	T90 LAVG	T90 DOSE	T90 8-hour PDOSE	Calculated Minimum NRR
99.3	315.0	363.4	454.3	99.3	314.9	363.3	36
				3	1	2	



- T90 DOSE (1) • T90 8-hour PDOSE (2)
- T90 LAVG (3)
- T90 TWA do not record (4)
- LAVG values less than 65, enter as <65
- "---" or 0.0 should be entered if shown

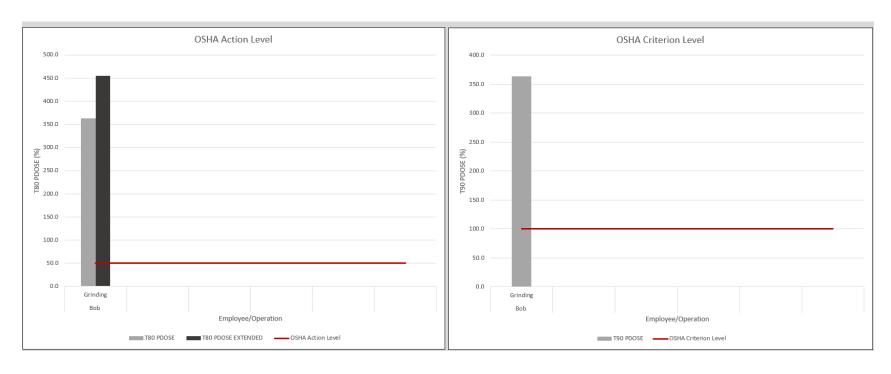


Calculated Minimum NRR or noise reduction rating is calculated for LAVG > 90 dBA



## **Data Interpretation**

Send completed data sheet(s) to IHDATA@travelers.com



- OSHA Action Level graphs T80 8-hour PDOSE and Calculated T80 PDOSE Extended
- OSHA Criterion Level graphs T90 8-hour PDOSE
- Additional information for your results are below the graphs



## Glossary of Terms

#### **Definitions**

dBA: Decibels, A-weighted, slow response.

PRE: Pre-sampling calibration verification - Sound level (LAS), in dBA.

POST: Post-sampling calibration verification - Sound level (LAS), in dBA.

Threshold: Decibel level at which the dosimeter begins accumulating data. Noise levels below the threshold are not collected by the dosimeter.

80 dB Threshold Noise levels between 80 dBA and 130 dBA are collected. Noise levels between 90 dBA and 115 dBA are collected.

LAVG The average noise level (dBA) for an 8-hour shift.

P Dose % The projected dose % for an 8-hour shift.

Dose % The dose % for the time monitored.

# Need to create a second page for noise data? Click on survey date entry box for instructions

