**Thermoworks Data Logger Protocol**

<u>Getting Started</u>
- Connect the data logger docking station to your computer
- Open the LogMaster 4 program
- Place a data logger into the docking station
- If the data logger is not recognized, click the "Refresh" button
  - Try reconnecting the docking station with the LogMaster software running if it still is not recognized
- Select "Reset" to clear previous data from the data logger
- Select "Quick Start" to start the data logger recording
  - Record the time shown in the bottom right corner of the LogMaster software (This is so I can figure out which data points can be ignored)
- Follow the Data, Bottling, Processing, Ending Pressure, and Final Procedures in your Protocol document
  - MAKE SURE to record times as indicated in the Protocol document. This is the time shown in the LogMaster software, not a clock or watch. (This is so I can figure out which data points need to be used)

<u>Retrieving Data</u>
- Completely cool and clean any grease from the data logger
- Place data logger into the docking station
  - DO NOT put hot or dirty loggers into the docking station!!!
- If the data logger is not recognized, click the "Refresh" button
  - Try reconnecting the docking station with the LogMaster software running if it still is not recognized
- Select "Stop" to stop the data logger recording
  - You do not need to record the time the data logger was stopped
- Select "Download" to retrieve data from the data logger
- Under the "File" tab, select "Save to" → "File"
  - Use the file naming instructions on your data collection sheet for that product and replicate
  - You might want to create a specific folder on the desktop where all data files can be stored
- A graph of the temperature recordings should show in the window at the bottom of the screen. Click the tab above the graph for the current data set (see picture below)

Data set tab
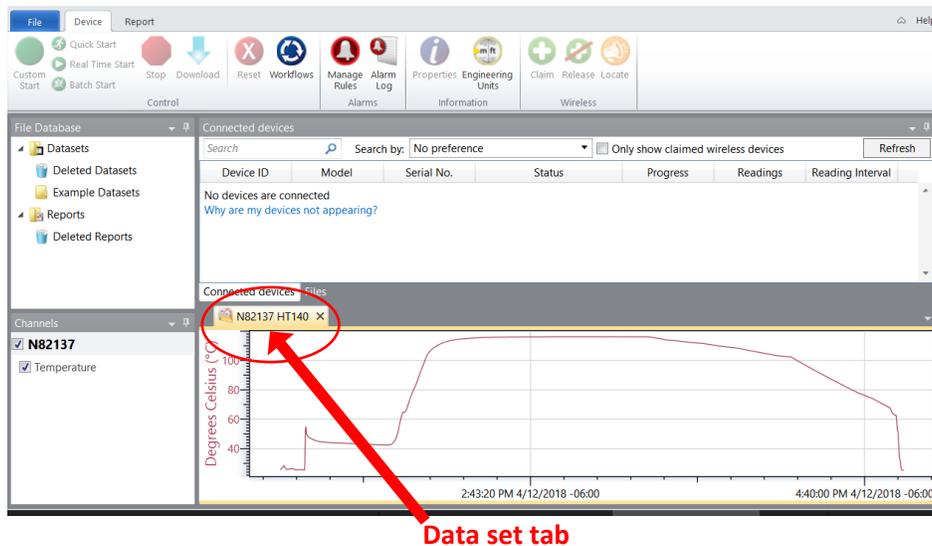
- Select "Report Options" → "Export to Excel" → "Export All Data to Excel"
  - Click "Yes" when asked if you would like a chart to be displayed
- When the Excel file opens, make sure both a "Chart" and "Data" tab show at the bottom left of the screen.
- Select "File" → "Save As"
  - Use the file naming instructions on your data collection sheet for that product and replicate
  - This can be stored in the same folder as your LogMaster file. Even though they will have the same name, they are different file types so one will not replace the other.

Preparing for the Next Run/Storage

- Double check that both a LogMaster file (*.MTFF) and an Excel file (*.xlsx or *.xls) have been saved
- Select the "Device" tab from the top menu bar
- Select "Reset" to clear the data from the data logger
- It is now ready to use again or to store