

ELECTRONIC LOGBOOKS

Monterey Bay Air Resources
District's Ambient Air
Monitoring Program



*Monterey Bay Air
Resources District*

HISTORY OF LOGBOOK USE AT MBARD

- Logbooks are used to document the operational histories
 - Air monitoring equipment,
 - Calibration equipment, and
 - Individual air monitoring stations
- They are used describe events and conditions that may affect data quality.
- Logbooks have historically been a physical item, such as a composition notebook, to be inscribed with pen and ink.
- MBARD now uses a digital system for logbook entries and storage.
- Finding an acceptable digital logbook solution to transition to has taken some time.

PURPOSE AND ADVANTAGES

- Reduces risk of damage or loss of paper logs
- Ability to review logs remotely
- Easily reviewed by Supervisor
- Faster review – easier access
- Access available to CARB
- Secure – Login required
 - automatically logs who made entry and stamps date and time
 - can trace any access to the log including deletions
- No physical storage required
 - Easy to save data and keep back-ups

- Secure
- Not editable
- Able to customize design and reports
- Low Cost
- Acceptable to CARB and EPA

- Solution: Laserfiche Software
- Already used for other workflow and document storage at MBARD

REQUIREMENTS AND SOLUTION

Log Books:

Station Activity

Instrument Maintenance

Transfer Standard



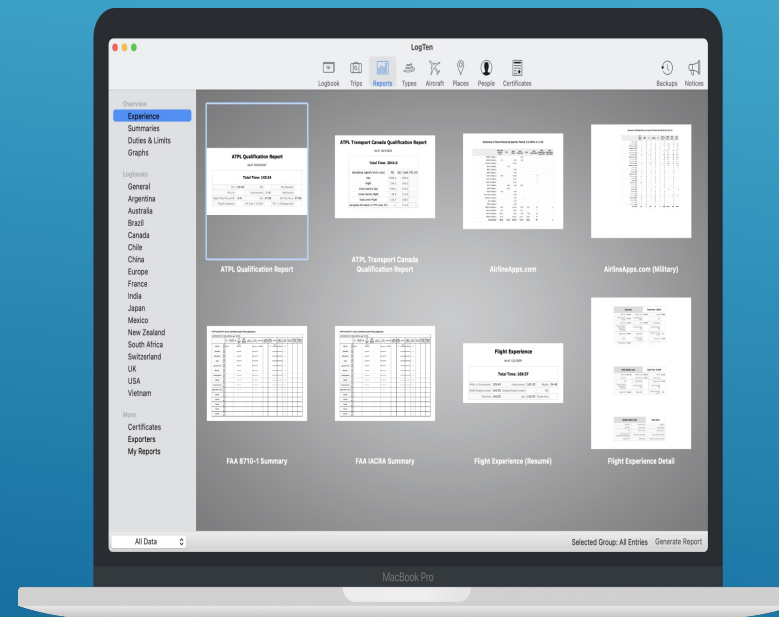


THE TRANSITION TO ELECTRONIC LOGBOOKS



Not Easy – Commercial systems

- Too complicated – try to do too much
- Too specific, wrong format or purpose
- Correct purpose, but not flexible or adjustable where needed.





Air Monitoring Log Book

Log Type *

- Station Activity Log
- Instrument Maintenance Log
- Transfer Standard Log

Barcode *

Instrument Maintenance

Type

Manufacturer

Model

Serial Number

Assigned Location

Activity *

Technician *

Date *

INSTRUMENT MAINTENANCE LOG

Includes:

- Details and identification of a specific instrument
- Where the instrument is located and used
- Details of maintenance/repair



Air Monitoring Log Book

Log Type*

- Station Activity Log
- Instrument Maintenance Log
- Transfer Standard Log

AM Station*

Activity*

Technician*

Date*

STATION ACTIVITY LOG

Includes:

- General description of activities occurring in and around station
- Environmental Conditions such as nearby construction, presence of smoke, weather



Air Monitoring Log Book

Log Type * Station Activity Log
 Instrument Maintenance Log
 Transfer Standard Log

Barcode *

Transfer Standard

Type

Manufacturer

Model

Serial Number

Assigned Location

Activity *

Technician *

Date *

TRANSFER STANDARD LOG

Includes:

- Certifications for standard
- Maintenance for standard
- Activities where standard is used

Date	Log_Type	AM_Station	Activity	Technician
08/03/2022 13:08:35	Station Activity Log	Hollister	Weekly checks on O3, BAM PM10, BAM PM2.5 and MET. Monthly checks on BAM PM10 and BAM PM2.5. Weather is sunny and hot with light wind.	Tony Sotelo
08/09/2022 13:50:31	Station Activity Log	Hollister	Weekly checks on O3, BAM PM10, BAM PM2.5 and MET. Weather is sunny and war with moderate wind.	Tony Sotelo
08/18/2022 13:28:57	Station Activity Log	Hollister	Weekly checks on O3, BAM PM2.5, BAM PM10 and MET. Clean manifold and sample lines and run high ozone concentration to recondition manifold and sample lines. Weather is sunny and hot with moderate wind.	Tony Sotelo
08/25/2022 14:14:42	Station Activity Log	Hollister	Weekly checks on O3, BAM PM10, BAM PM2.5, and MET. Construction trucks are piling mounds of sand/dirt near station. Weather is sunny and warm with moderate wind.	Tony Sotelo
08/26/2022 11:35:57	Station Activity Log	Hollister	CARB here to audit all station parameters. Connect O3 49IQ analyzer to manifold, zero and span adjust analyzer. Weather is sunny and warm with moderate wind.	Tony Sotelo
08/30/2022 11:22:09	Station Activity Log	Hollister	As is calibrations on BAM PM2.5 (AM 1752) and BAM PM10 (AM 1795). Weekly checks on MET. Sunny, warm and still.	Eddie Ballaron

CUSTOMIZABLE REPORTS

Reports can be set up around any single or combination of selected parameters.

We typically look at date ranges and station and can narrow them down to technician and log type with the current set-up.