

# Conditions of Use for Railway Field Laboratory Data (V1.2)

## 1 General

On the section of SBB railway track between Rothenburg and Sempach (approximate track kilometres 80-81), data on noise, vibrations and acceleration for rails, sleepers and ballast is collected from seven measurement cross-sections. This railway field laboratory is operated by Müller-BBM Rail Technologies GmbH on behalf of the federal government. The resultant data is managed by Müller-BBM Rail and is made available to interested specialists on a central data platform.

These Conditions of Use regulate the terms under which the data may be obtained and used. The process for obtaining data is initiated via a web form on the website of Railway Noise Research ([Project Application Railway Field Laboratory](#)). The approval for usage is granted by the Steering Committee of the Railway Field Laboratory. If the project application is approved, access to the data is granted by Müller-BBM Rail.

## 2 Terms

2.1 DATA: the following data are available:

- a) Basic DATA: information about the measurement cross-sections including the nature and timing of structural changes and maintenance work, and also standard-compliant third-octave band spectra for rail roughness and decay rates
- b) Monthly and annual reports
- c) Weather DATA
- d) Pass-by DATA prepared with measured values for all trains (sound and vibration parameters for entire trains, individual vehicles as well as axles; third octave band spectra and A levels of the microphone signals during pass-bys with a time resolution of 0.1 s)
- e) Raw data for the time signals of the measured variables (H5 format)

2.2 Data Owner: the Swiss Confederation (represented by the Swiss Federal Office for the Environment (FOEN) and the Swiss Federal Office of Transport (FOT))

2.3 Data Administrator: Müller-BBM Rail Technologies GmbH (see below for contact)

2.4 Data Recipient: natural person or legal entity that receives access to the DATA.

2.5 Results: results from the use or processing of the DATA.

## 3 Rights of ownership

3.1 The DATA shall remain in the ownership of the Swiss Confederation. The ownership rights shall be exploited by the Swiss Federal Office for the Environment (FOEN) and the Swiss Federal Office of Transport (FOT) respectively.

## 4 Rights of use and obligations of the Data Recipient

4.1 DATA in categories a) and b) are freely available and may be downloaded by the data recipient at <https://fahrbahnlabor.ch>.

4.2 DATA in categories c) and d) may be obtained upon request. For this purpose, an email an email must be sent to [fahrbahnlabor@mbbm-rail.com](mailto:fahrbahnlabor@mbbm-rail.com) in which the Data Recipient provides their contact data and confirms compliance with the Conditions of Use. The Data Recipient then receives a login to the central data platform of Müller BBM Rail.

- 4.3 Raw data on the time signals for the measured values may also be made available by the Data Administrator. However, this service is provided in return for compensation of outlay. Compliance with the Conditions of Use must also be confirmed in this case. In addition, the measured values of interest and the time period must be indicated.
- 4.4 The Data Recipient is authorized to use the DATA freely for their purposes. This includes the use of the data for research and development, including commercial products.
- 4.5 The Data Recipient is not entitled to pass on the DATA to third parties.
- 4.6 Any publications that rely on the DATA must include the following attribution to the data source: "For the present publication, data from the Railway Field Laboratory (or Swiss Railway Field Laboratory, <https://fahrbahnlabor.ch>) were used. The Railway Field Laboratory is operated by the Swiss Federal Offices for the Environment and Transport, as well as the Swiss Federal Railways (SBB). The content of the publication is the sole responsibility of the Data Recipient."
- 4.7 The Data Recipient undertakes to inform the Data Owner about any reports and scientific publications related to the DATA, unprompted, and no later than two weeks after their publication, in electronic form at ([noise@bafu.admin.ch](mailto:noise@bafu.admin.ch)).
- 4.8 Any errors or deficiencies in the DATA should be reported to the Data Owner and the Data Administrator via email ([noise@bafu.admin.ch](mailto:noise@bafu.admin.ch) and [fahrbahnlabor@mbbm-rail.com](mailto:fahrbahnlabor@mbbm-rail.com)).

## 5 Liability

- 5.1 The correctness of the DATA cannot be guaranteed by the Data Owner. The Data Owner declines all liability for any loss or damage that could arise due to the use and processing of the DATA. The Data Recipient undertakes to indemnify the Data Owner in connection with any claims for damages by third parties.

## 6 General provisions

- 6.1 A list of planned, ongoing, and completed projects is available on the website of the Railway Field Laboratory. By agreeing to these Conditions of Use, the Data Recipient consents to the publication of the following project information: (a) Name of the Data Recipient (Institution/Person), (b) Project Title, (c) Research Subject.
- 6.2 If individual provisions of this statement regarding data usage are or should become wholly or partially ineffective, this shall not affect the effectiveness of the other provisions.
- 6.3 These Conditions of Use are governed by **Swiss law**. The place of jurisdiction is **Bern**.

### Contact:

Data Owner:

Swiss Federal Office for the Environment (FOEN), Noise and Non-Ionising Radiation  
Department 3003 Bern, Philipp Huber, [noise@bafu.admin.ch](mailto:noise@bafu.admin.ch), +41 58 464 77 69

Data Administrator:

Müller-BBM Rail Technologies GmbH, Helmut-A.-Müller-Strasse 1-5, D-82152 Planegg,  
Stefan Lutzenberger, [fahrbahnlabor@mbbm-rail.com](mailto:fahrbahnlabor@mbbm-rail.com), +49 89 856020,