

## Project Profile

<b>Project Name:</b>	Audit Ground Motion Data Submitted to the BCER (Mahani)
<b>Project Number:</b>	Local-Seismic-2025-03
<b>Proponent:</b>	Mahan Geophysical Consulting, Inc.
<b>Funding Envelope:</b>	Operations-Local Matters—Induced Seismicity
<b>Timeframe:</b>	August 26, 2024 to January 31, 2025

### Project description

This project aims to audit ground motion data received by the BC Energy Regulator (BCER) with the intent to understand if the data collected is adding to the induced seismicity body of knowledge. The current submission standards will be reviewed and updated as necessary to address any issues with the data submitted. Industry will be engaged for feedback on any proposed guidelines or recommendations for data submission.

The BCER requires that companies collect and report ground motion waveforms in two scenarios: a felt event (shaking is felt by individuals on the surface) has occurred within a ground motion monitoring area or the predetermined threshold for local magnitude has been reached.

### Project objectives

The objectives of this project are to:

- Provide a complete audit of ground motion (waveform) data submitted by industry to BCER as part of their regulatory obligation. The audit will help understand if the data collected is adding to the induced seismicity body of knowledge.
- Rank received data for quality and completeness and use this information to leverage deployment, recording and submission standards.
- Update, as necessary, current guidelines and submission standards to ensure quality data is received and available in an appropriate format for future research and analysis.

### Project deliverables

The deliverables from this project include the following:

1. Final report containing recommended guidelines and best practices for submitting ground motion waveforms to the BC Energy Regulator (e.g., submission procedures, data formats).
2. A ranking system and description of current data gathered in the e Library.