

The Problem

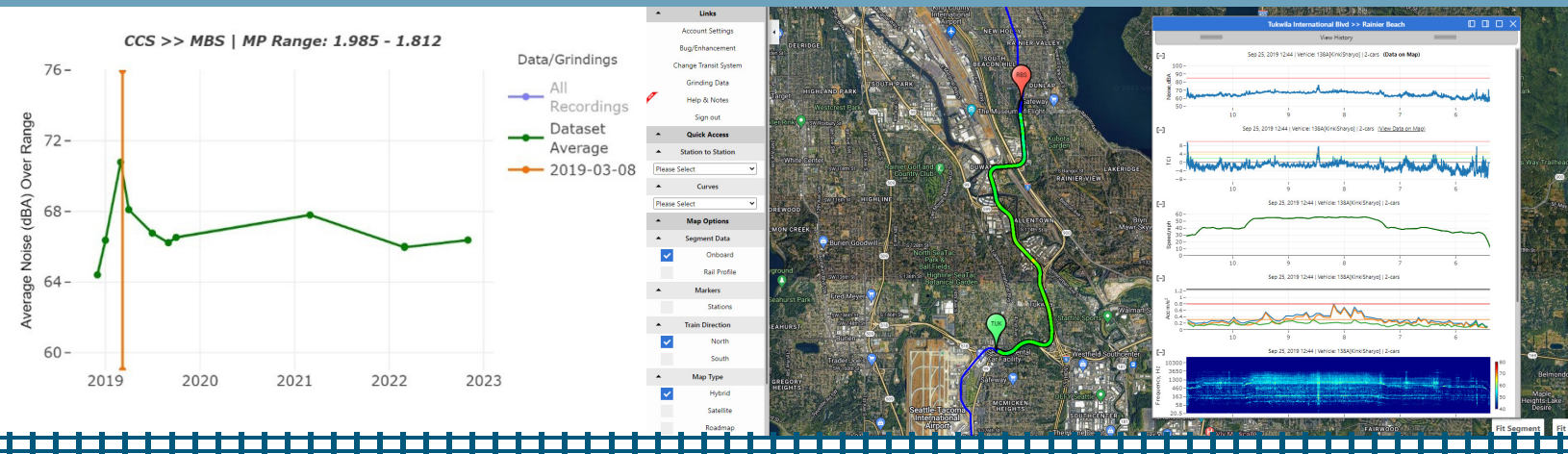
Noise and vibration are issues inherent to any rail transit system. Noise and vibration caused by rail vehicles tend to increase unless an agency actively maintains its vehicles and track.

Increasing levels of noise and vibration can serve as a leading indicator of maintenance needs. Also, noise and vibration data can be used to help predict where there may be complaints from residents living alongside the system or transit passengers.



The Solution

Spy Pond Partners, LLC (SPP) offers SPP OnTrack as a tool for monitoring noise and vibration levels of a rail transit system. OnTrack is an affordable, easy-to-use tool used for collecting, managing and diagnosing data on transit noise and vibration levels. It shows what the noise levels of the system are, how they are changing, and where an agency may need to take actions on its track, such as to perform additional inspections, rail grinding or resurfacing.



The Technology

SPP OnTrack relies on noise and vibration data collected onboard an agency's vehicles. An agency may collect this data on a periodic basis using a compact, portable measurement kit. The kit is designed for installation in an unoccupied cab during revenue or non-revenue service. Alternatively, an agency can utilize the services of SPP partner Cross-Spectrum Acoustics Inc. to support data collection. Once collected, data are uploaded to an intuitive, map-based interface that agency staff can access through any web browser.



The Impact

The system has been in production since 2010 and is currently in use by two North American transit agencies.

These agencies have used the system to support a number of applications, including:

- Ongoing monitoring of noise levels
- Trend analysis
- Identification of priorities for rail grinding
- Prediction of rail corrugation
- Prediction of track remaining service life

Contact Us

To learn more about SPP OnTrack and schedule a demo of the system.



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