



North Shore Wastewater Treatment Plant

Building infrastructure to protect human health and the environment in a growing region

NOISE MANAGEMENT AT THE NORTH SHORE WASTEWATER TREATMENT PLANT

Managing noise levels is an important community commitment as Metro Vancouver builds the North Shore Wastewater Treatment Plant.

Construction working hours at the new treatment plant project site include daytime (7:00 am to 8:00 pm), nighttime (8:00 pm to 7:00 am), and weekend shifts (7:00 am to 6:00 pm). No work is currently anticipated on public holidays.

Metro Vancouver and the project contractor, PCL, are working closely with BKL, a local acoustic consultant, to monitor and manage noise levels during construction working hours.

Overnight Noise Control Strategies

For overnight work, various zones across the project site have been designated where overnight work can be completed safely and within required noise thresholds. Project noise strategies include the following:

- Limiting work activities that can be done at night
- Prohibiting the use of specific, noisy equipment
- Retrofitting tools and workspaces with sound insulators
- Working inside noise-muffling enclosures and setting up temporary sound barriers for specific activities
- Identifying electric-powered alternatives to certain tools
- Using alternatives to audible warning horns and alarms for nighttime crane work

All workers will be trained on noise awareness and noise-reduction procedures before they undertake work on site.

Overnight Noise Monitoring

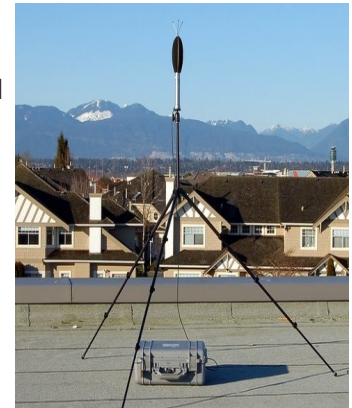
Noise monitors have been installed across the site and in the Norgate and Pemberton Heights neighbourhoods. These noise monitors are anticipated to be in place for the duration of significant construction activities on site.

Noise Monitors

Where possible, the noise monitors have been placed to receive clear readings of site activity and how activity measures against noise thresholds, and to distinguish noise readings from other properties and the railway.

The noise monitors have the following features:

- Provide continuous noise level logging of broadband noise levels
- Log hourly average noise levels
- Transfer data in real-time
- Have cellular connectivity for data transfer and device management
- Can send SMS or email alerts when noise levels have been exceeded
- Meet Class 1 requirements as defined by the International Electrotechnical Commission (IEC) method IEC 61672-1 (IEC 2013)



Noise monitoring equipment provides noise data in real time.

With these noise monitors in place, the construction team can access real-time data to help plan and manage site activities to stay within the approved noise thresholds.

BKL will maintain the noise monitors, making sure they are regularly calibrated, powered, receiving and sending data, protected from weather, and properly located.

BKL will also do more specific noise monitoring if there are any concerns or complaints related to work activities or when new noise monitoring equipment is deployed on site.

Alerts

Each monitor will be set to alert at a specific noise threshold and will send an alert if a daytime or nighttime threshold is exceeded. Generally, sustained noise between 70-77 dBA (daytime) and between 45-60 dBA (nighttime) will trigger an alert.

These thresholds will be re-evaluated and finalized after the monitors are deployed to make sure the actual settings at installation locations align with anticipated outcomes.

All alerts are received by the PCL Superintendent for immediate investigation and action, with support at night by the Noise Monitoring Coordinator.

Reporting

Results from continuous noise monitoring will be shared with the Metro Vancouver project team and these results will also be reported to the District of North Vancouver.

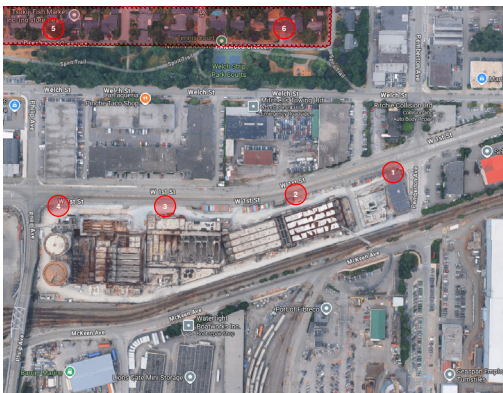
Community Concerns

If you hear any disruptive construction noise, particularly overnight, you can do the following:

- Call the Community Liaison phone number: **604-639-9012**. Your call will be received by our 24/7 call centre.
- Share details about noise or any urgent issue to the 24/7 call centre staff.

The concern will be immediately shared with the PCL Superintendent, who will investigate and take action, as appropriate.

Metro Vancouver's Community Liaison will follow up with you by phone or email on the next business day.



Noise monitoring equipment has been installed across the site and in the Norgate and Pemberton Heights neighbourhoods. General locations are shown left.

Contact Us

Community Liaison: 604-639-9012

Email: nswwtp@metrovancover.org



For more information, or to sign up for project updates, please visit metrovancover.org/nswwtp



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SERVICES AND SOLUTIONS FOR A LIVABLE REGION

Metro Vancouver is a diverse organization that plans for and delivers regional utility services, including water, sewers and wastewater treatment, and solid waste management. It also monitors and regulates air quality, plans for urban growth, manages a regional parks system, provides affordable rental housing, and serves as a regional federation. The organization is a federation of 21 municipalities, one electoral area, and one treaty First Nation located in the region of the same name. The organization is made up of four separate legal entities, each governed by its own Board of Directors. Board directors are elected officials from member jurisdictions.

