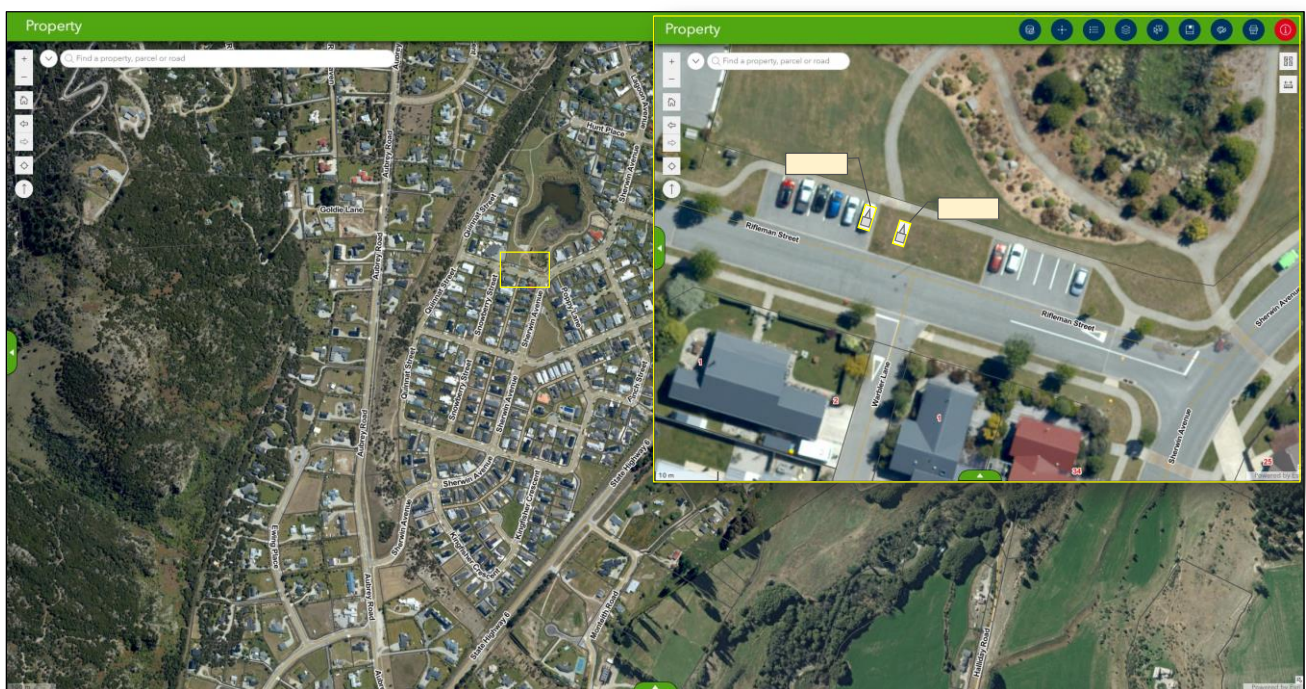


3rd September 2024

Information related to request for Licence To Occupy Road Reserve for a temporary quality station at Albert Town

The Otago Regional Council (ORC) is currently upgrading the State of Environment (SoE) monitoring network for air quality in the Queenstown Lakes area. We would like to install a temporary mobile air quality monitoring station on the Rifleman St road reserve adjacent Riverside Wetland Reserve. We foresee this to be in place for up to 15 months in order to cover the remainder of the 2024 winter monitoring season and all of the 2025 winter monitoring season. The map below shows the preferred location in Albert Town.

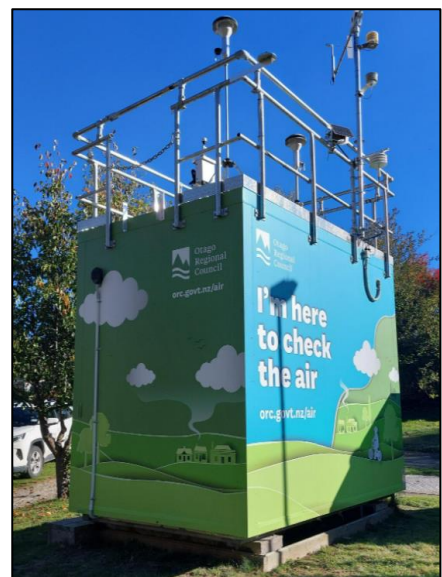


The mobile monitoring station is in the format of a small self-contained trailer that contains all the necessary instrumentation and power supplies. The trailer has a removable mast mounted on the drawbar that is used for mounting the instruments. This trailer can be located either on the grass area or in one of the carparks depending on the preference of QLDC. The map above and the image below shows the two options.



The equipment we plan to install includes an instrument for monitoring PM2.5 (particulate matter less than 2.5 micrometres in diameter), an air pollutant emitted by the combustion of fuels. Other equipment includes meteorological instruments to measure ambient temperature, wind direction, wind speed and relative humidity. These parameters help us analyse the PM2.5 concentrations. All the instruments will be powered by a solar power system and connected to telemetry for the transfer of near real-time data into ORC's environmental database. The PM2.5 instrument operates by drawing air into an inlet, so there will be minimal noise levels, that will only be noticeable within 1 metre of instrument. Please note that there will be no other instruments or devices installed at this site. Once installed, ORC field technicians will visit the station monthly to carry out site maintenance.

Below is an image of the recently constructed trailer. The sides of the main box will receive a graphical wrap with information on what the trailer is for and where to find more information. This will be similar to what has been applied to the Arrowtown permanent Air Quality station in the second image below.



If you have any questions regarding this application, please contact me by phone or email at the details below.



Nick Boyens

Environmental Monitoring Network Lead

Environmental Monitoring

nick.boyens@orc.govt.nz

[+64272476351](tel:+64272476351)