

Dust Mitigation Measures

Current mitigation measures

Current mitigation measures to reduce dust emissions from stockpiles of inert waste, aggregates and sand, in addition to the general quarry area, consist of the hosing down of the entrance, internal roads and stockpiles during the summer period and on windy days, when it is not raining. This is facilitated by a water bowser being brought in on-site once a day.

In addition to this, the mobile crusher is currently located within the quarry void. The height of the quarry walls exceed the height of the mobile crusher, and therefore, the area is sheltered from the prevailing wind directions. The majority of airborne dust will be confined within the site.

Currently, stockpiles of inert waste for crushing are positioned within the quarry void, which reduces dust emissions through wind. The height of the quarry exceeds the height of the inert waste stockpiles.

The mobile crusher is equipped with water jets. Material being crushed as part of the recycling process is wetted to reduce emissions of dust.

Proposed additional mitigating measures (all measures to be in place within six months from when the permit is issued)

1. Dedicated mist cannons to be installed in the mobile crushing and stockpiling area during the summer periods in addition to dry and windy periods. The cannons to be positioned towards the primary crusher and conveyer belts during the crushing of inert waste.
2. During the operation of stone extraction, the area to be extracted will be wetted first to reduce emissions.
3. Stockpiles will be covered with tarpaulin during summer periods in addition to dry and windy periods.
4. The entrance, internal roads and stockpiles of inert waste for crushing will continue to be wetted down as necessary, such as on windy days, throughout the year. During the summer periods (May to September) the frequency of the wetting down will be increased to at least once per day.
5. All stockpiles, including stockpiles of historically deposited backfilling material found within the 'active backfilling area' as indicated in Site Layout Plan 9.1, that exceed the height of the quarry walls will be lowered to below the height of quarry within two years from when the permit is granted.

