

Yancoal Southey Project



What noise levels are considered disruptive?

Based on Alberta Energy Regulator *Directive 038: Noise Control*, day time permissible sound levels for dwellings range from 50 to 60 A-weighted decibels (dBA) and night time levels from 40 to 50 dBA. For comparison sound levels associated with tractors = 74 to 112, combines = 80 to 105, and riding lawn mowers = 78 to 89 dBA. Also for comparison, noise levels greater than 50 dBA have been shown to affect sensitive migratory birds.

How far from the source are disruptive noise levels anticipated? No noise effects are predicted beyond 1.5 kilometres and noise levels of 50 dBA or less are anticipated to occur at 470 to 849 metres from sources.

How will the Southey Project prevent effects? One well pad will be drilled at a time; conventional insulation, baffles, and noise suppressors will be used; and stationary equipment will be located inside buildings to reduce noise.



Noise

Yancoal Canada Resources

Robin Kusch
Unit 300, 211 4th Avenue South
Saskatoon, SK S7K 1N1

Phone: 1-306-668-5558 ext. 6015
Mobile: 1-306-227-1073
Fax: 1-306-668-5559
Email: r.kusch@yancoal.ca
www.yancoal.ca

Effects to Noise Levels will be Localized

Noise during operations will be confined to a relatively small area including the core facility area, the mine field, the rail line, and the access route. Predictions were compared to Health Canada's criteria for noise-induced hearing loss and speech comprehension (core facility), as well as sleep disturbance and complaints (beyond site). Noise levels were predicted for 60 receptors, for one receptor it was predicted that the cumulative noise levels (i.e., core facility, rail line and road) would be 3 dBA above the permissible level during the day and 5.6 dBA above during the night. The local landowner, where negative effects could occur, was engaged with and a resolution was reached to avoid potential conflict.



Together we can build something to be proud of.