

# Yancoal Southey Project



**How could air quality change?** The project will result in air emissions (e.g., burning fossil fuels in diesel equipment and natural gas in fired boiler and dryers), as well it will result in dust deposition (e.g., waste material stored on surface, and travel on graveled or disturbed areas). **How can air quality changes be predicted?** Using the US Environmental Protection Agency's AERMOD model project effects are predicted.

**How will the Southey Project prevent effects?** Equipment will be in good condition and meet emission standards; high-energy scrubbers, baghouses, dustless chute and loading systems, and wet scrubbers will be used. Paved roads will be used as much as possible. Regular watering or other dust suppressants will be used on gravel roads and onsite, and speed limits to reduce dispersion will be enforced.

**How will the Southey Project confirm effects aren't underestimated?** Predictions are conservative and monitoring will be a regulatory requirement.



## Air Quality

### Air Quality Effects will be Below Guidelines

Beyond the site the highest possible air quality effects will be below the Saskatchewan Ambient Air Quality Standard (SAAQS): nitrogen dioxide 20.4 ug/m<sup>3</sup> vs 45 ug/m<sup>3</sup> (44%); sulphur dioxide 0 ug/m<sup>3</sup> vs 20 ug/m<sup>3</sup>; fine particulate matter 5 ug/m<sup>3</sup> vs 10 ug/m<sup>3</sup> (50%); total particulate matter 18.7 ug/m<sup>3</sup> vs 60 ug/m<sup>3</sup> (31%); potash (potassium chloride) 0.0005 mg/cm<sup>2</sup>/ month vs 0.15 mg/cm<sup>2</sup>/month (0.3%). The model showed that only one parameter, coarse particulate matter, will be at levels close to guidelines. The SAAQS is 50 ug/m<sup>3</sup> and the predicted maximum level just beyond the site was 45.2 ug/m<sup>3</sup>. The prediction is highly conservative (i.e., background level used high), additional work is being completed and future monitoring is anticipated to show this estimate is overestimated. Regardless, all predicted levels are below guidelines and are protective of the environment, including people.

#### 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



**Together we can build something to be proud of.**