

Build Alternative – Tunnel Ventilation with Jet Fans



Zurich North Bypass highway, Switzerland

- Longitudinal ventilation with jet fans
 - 3 Locations: near south portal, near middle of tunnel, and near north portal
 - No exhaust stacks required at portals
- Jet fans would automatically operate, as needed, based on air quality monitoring
- Jet fans are not expected to operate often, since the piston effect created by traffic flow is sufficient to provide adequate air quality within the tunnel and at the portals
- Use of high-quality equipment, with minimal inspection & maintenance requirements (1x / year)



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