## 12 September 2014

Director – Infrastructure Projects
Department of Planning and Environment
Major Projects Assessment
GPO Box 39
SYDNEY NSW 2001

## NorthConnex Application Number: SSI 13\_6136

Bouygues joint venture This is a submission in response to the EIS on exhibit by NorthConnex preferred contractor Lend Lease

meters from the proposed northern portal and ventilation stack of the NorthConnex tunnel I object to the project as described in the EIS. I am a resident of Wahroonga and my home is about 50

generated by ventilation turbines in the stack as follows: I am concerned about the impacts on health of the local community by the tunnel emission and noise

- hazardous impact on the environment and the local community close to the stacks large amount of pollutant emissions in hundreds of tons by a faulty design will have a permanent portal continuously round the clock, non-stopping into the local area. I am concerned that the collected and dispersed through the ventilation stacks only and some may be through the exit and southern exits. The emissions from vehicles and heavy trucks travelling on a 9 Km stretch are The 9 Km NorthConnex tunnel has only two ventilation stacks at the two portals at the northern
- Ņ residential area in Wahroonga. It is in very close vicinity to homes, schools, age care facilities, continuous emissions from the tunnel stack and portal round the clock and non-stopping. local community including residents, school children, and local workers will be exposed to the parks and local business. The stack and portal to the closest home is less than 100 meters. The The proposed northern ventilation stack and portal is located in the centre of a densely populated
- $\omega$ including increase in deaths from cardiovascular diseases, increased risks of lung cancer, induced astluma, autism, poor lung development of children, low birth weight for pregnant women and congenital heart defects. Large scale research studies suggest that air pollutants have a hazardous impact on human health,
- 4 more hazardous the tunnel emissions will be. It is a zero sum game. The health of the local concerned that the more successful of the NorthConnex to divert more trucks into the tunnel, the community and the government now and forever the project is not correctly designed and built, the social cost is an ongoing burden on the local community is a social cost that have never been fully assessed by NorthConnex. What is more, if particulates which penetrate deep and causing health issues when breath in by human. I am the emission from the diesel engines of the trucks are carcinogenic and also contain fine duty trucks from the Pennant Hills road to the tunnel. World Health Organisation has found that The NorthConnex project claims that the proposed tunnels aims to divert at least 5,000 heavy

- 'n NorthConnex claims there will be no portal emission. I am concerned that this cannot be verified and there is no monitoring. Should it happens, the portal emissions will remain at ground level, and the local residents will be exposed to high concentrated pollutants.
- Ò concerned that in order to be effective, powerful turbine engines (similar to jet engines) may have have to be pumped out through the ventilation stack. I am concerned that the intake of fresh air in the tunnel is not adequate along the 9Km tunnel as fresh air is drawn into the portal by vehicles ventilation stacks. to be used and these will create unacceptable noise pollution for the residents in vicinity to the tunnel remissions are propelled through the stacks for dispersion in the atmosphere. I am generated by the vehicles, as there is no dilution by fresh air. Besides, NorthConnex claims that other than the entrance portal, the further inside the tunnel travelled, the more pollutants and moved along the tunnel by tunnel jet fans. There is no fresh intake of air along the tunnel In order to keep the air quality within the tunnel within the acceptable level, large volume of air
- $\sim$ modelling, including: NorthConnex provides modelling of the northern stack in the EIS. There are multiple flaws in the
- Extrapolation of meteorological data from weather stations which never simulates the local meteorology, topography in particular the valley terrains of Wahrooga.
- locations and this in non-scientific and unconvincing with a high margin of errors The background air quality data were based on Lindfield and Prospect instead of local
- 00 claims? I am concerned that the claim is not well proved and unconvincing. Have they investigate and collect enough data from tunnels with filtration stacks to support their NorthConnex claims that applying filtration for stacks is ineffective to reduce the pollutants
- 9 and quantity in emission volume of various stacks comparable to the present design. and poses no health issues. However, NorthConnex does not provide adequate data based on continuous monitoring of the health impacts to local residents, and also the difference in design NorthConnex claims that some ventilation stacks in Australia are very close to residential areas
- 10. I am concerned that the NorthConnex current design considers cost effectiveness in priority to environmentally responsibility as well as long term impacts

To address the above concerns, I request that the followings have to be undertaken:

- the issues raised above The air quality and human health impact assessment need to be reviewed and revised to address
- Ņ and portals away from densely populated areas. An independent process should be undertaken to assess the relocation of the ventilation stacks
- 'n should be included in the design to reduce pollutants. An independent assessment on the provision of filtration in stacks to determine whether this
- 4. tunnel is acceptable and NorthConnex's claim of no portal emission can be justified An independent assessment of the ventilation system to ensure that the air quality within the
- Ş Portal emission from NorthConnex should be banned as a condition of approval

- 9 community on a reasonably regular basis. Any health impact should be addressed in consultation Continuous monitoring of air quality and health impacts on local community including residents, business workers and school children in the vicinity of the ventilation stacks should be included as condition of approval and the result should be disclosed to the public especially the local with the local community immediately.
- 7. information contained in the Report. The Submission Report be exhibited to allow the community to respond to the revised
- œ The Department should not approve the project in its current design as it does not meet the standards of Ecologically Sustainable Development as required by the Environmental Planning Assessment Act.

Submission by:

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