



In reply please send to: Newcastle District Office
Our reference: FN86-08014L0
Your reference: 10_0139 - Awaba Landfill Extension. Christine Chapman
Contact: Peter Evans (02) 4908 4391

Department of Planning
GPO Box 39
SYDNEY NSW 2001

6 November 2012

Dear Christine

ENQUIRY NO TENQ12-09287L1
LOT 372 DP 723259 NO 60 WILTON RD AWABA
AWABA LANDFILL EXPANSION PROJECT

I refer to your email to Mr Paul Gray (17 October 2012), inviting the Board to provide comments on the Awaba Landfill Expansion Project submitted under Part 3A of the Environmental Planning and Assessment Act 1979.

The site is located in a Mine Subsidence District and under Clause 15(2A) of the *Mine Subsidence Compensation Act*, the Mine Subsidence Board's approval is required for subdivision and surface development.

The site overlies Mining Lease ML1452 held by Centennial Coal. I understand Centennial Coal is preparing plans to extract coal by the Longwall mining method under the proposed Awaba Landfill expansion area.

I understand the key components of the project include;

- Two new landfill cells;
- Additional emplacement over the existing landfill cells;
- Expansion of the on-site leachate management system;
- Installation of a pumping station and a rising main to transfer leachate;
- Installation of additional sediment management basins;
- Expansion of the landfill gas management system;
- Construction of a permanent transfer station;
- Construction of a wheel wash facility;
- Replacement of the existing weighbridges; and
- Construction of an additional reuse centre with amenities.

In considering a development application under the *Mine Subsidence Compensation Act*, the Board will require the proponent to address the following;

1. For the landfill cells and infrastructure underlying it, the Board requires this development to be designed and constructed so it is safe, serviceable

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and not damaged by the maximum subsidence parameters nominated in MSEC's report No. 537 Rev B, dated June 2012.

2. For all other infrastructure improvements, the Board requires this development to be designed and constructed so it is safe, serviceable and economically repairable in consideration of the maximum subsidence parameters nominated in MSEC's report No. 537 Rev B, dated June 2012.

These subsidence parameters are summarized below;

- (a) Maximum Subsidence: 1200mm
- (b) Maximum Tilt: 16mm/m.
- (c) Maximum Curvature: 0.6 km^{-1} (Compression) & 0.4 km^{-1} (Tension)
- (d) Maximum Strain:
 - 99% Confidence: 6mm/m (Compression) & 8mm/m (Tensile)

Due to variable depths of cover to mine workings and the location of improvements, mine subsidence parameters will vary. Therefore the Board may consider lesser design subsidence parameters subject to a Mine Subsidence Impact Statement demonstrating minor repair costs.

3. The design shall be certified by a structural engineer that the improvement will remain safe, serviceable, and resilient / repairable, under these subsidence parameters for items 1 & 2 above. And any damage requiring repair shall be slight, localized and economically repairable.
4. To support the designer's certification the proponent will be required to submit a Mine Subsidence Impact Statement. The content shall include;
 - (a) A brief description of the site and the proposed improvements.
 - (b) Confirmation of the mine subsidence parameters adopted.
 - (c) A summary of the general design philosophy and approach.
 - (d) For each mine subsidence parameter and building element, briefly discuss the likely subsidence impacts and design methodologies to mitigate these impacts.
 - (e) For those building elements likely to need repair due to mine subsidence, assess the potential costs and demonstrate they are slight, localized and economically repairable.
5. Design drawings must show the location and detailing of mine subsidence mitigation measures such as articulation joints etc, taking into account the mine subsidence design parameters and requirements of the Building Code and Australian Standards.
6. The Proponent shall confirm that on completion of all building work, a qualified structural engineer will certify that the improvement has been constructed in compliance with the plans approved by the Board. The Board may require documented quality assurance evidence to support the engineer's certification.

Please do not hesitate to contact me if I can be of further assistance.

Yours faithfully



Peter Evans
Subsidence Risk Engineer