

File Ref. No: BFS17/2405 (8000001695)
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Contact: Station Officer C. Wheatley

18 October 2017

The Department of Planning & Environment
C/- Mr Nicholas Hall
GPO Box 39
SYDNEY NSW 2001

Email: Nicholas.Hall@planning.nsw.gov.au

Dear Mr Hall

**Comment on Proposed Development
Smeaton Grange Recycling Facility (SSD 7424)
52 Anderson Road Smeaton Grange**

Fire and Rescue NSW (FRNSW) received correspondence from the Department of Planning & Environment (the Department) on the 5 October 2017. The correspondence seeks FRNSW comment relating to revised plans, stockpile calculations and fire water requirements for the proposed development.

The revised plans and stockpile calculations were submitted to the Department following a meeting which was held on the 21 September 2017. The subject meeting was attended by the proponent and their representatives, officers from the Department and officers from FRNSW.

As a result of the meeting, the following documentation was provided to the Department and forwarded to FRNSW review and comment:

- A letter authored by Mr Taylor Richardson of EMM Consulting Pty Ltd, dated 4 October 2017. The document is identified by J15135_Updates to stockpiles for FRNSW comment.
- A detailed drawing titled Site Layout Plan – Smeaton Grange Benedict Industries – Figure 1.

Based upon our review of the above documentation, the following FRNSW recommendation is provided to the Department for consideration:

Recommendation

1. Based on the updated maximum stockpile quantities and site layout outlined within the above documentation, FRNSW recommends that the fire hydrant system for the proposed development is designed to provide a minimum fire water supply rate of 50 litres per second (L/s).

Explanatory Comment

We acknowledge that our recommended minimum fire flow rate exceeds the maximum requirements of Table 2.1 of Australian Standard (AS) 2419.1 – 2005. Notwithstanding, in relation to a fire incident occurring at this particular development the provision of an on-site fire hydrant system, capable of delivering a minimum fire flow of 50 L/s, will enable FRNSW personnel to safely and efficiently manage a fire emergency through to incident resolution.

Adequate firewater supplies enable FRNSW to safely fulfil our statutory duties and functions as delegated under the NSW Fire Brigades Act 1989. Sufficient fire water supplies enable FRNSW to implement safe and effective fire ground operations. These operations include the implementation of tactics that mitigate the risk of fire spread to uninvolved property (i.e. exposure protection - both on-site and off-site building structures, on-site stockpile exposures, mobile property etc), the protection of personnel from radiant heat (both FRNSW personnel and machinery operators) and to achieve total fire extinguishment.

To successfully implement the necessary fire ground tactics, FRNSW personnel would need to deploy numerous hose lines – hence the recommended minimum fire flow rate of 50 L/s.

For further information please contact Cameron Wheatley of the Fire Safety Assessment Unit, referencing FRNSW file number BFS17/2405 (8000001695). Please ensure that all correspondence in relation to this matter is submitted electronically to firesafety@fire.nsw.gov.au.

Yours sincerely



Station Officer Mark Castelli
Team Leader
Fire Safety Assessment Unit