

17 June 2015

The General Manager
Palerang Council
PO Box 348
Bungendore NSW 2621

Attn: Mr Hayden Murdoch

**DEVELOPMENT APPLICATION 2015.093 – LOT 109 DP 755911, BOMBAY ROAD
BRAIDWOOD, WASTE TRANSFER STATION**

Dear Sir / Madam

Roads and Maritime Services (RMS) refers to your letter dated 5 June 2015 regarding the subject development application.

RMS has reviewed the information provided and has no objection to the proposed development provided the following comments are addressed in Council's Notice of Determination;

- The Traffic Impact Assessment (TIA) has concluded that the proposed development will not impact significantly on the safety and efficiency of the classified road network.
- It is noted the TIA does not provide an analysis of peak traffic movements at the Bombay Road, Araluen Road and Coghill Street intersection. The methodology adopted assumes the intersection meets the appropriate design standard. Council should satisfy itself that the existing intersection treatment is appropriate for the proposed traffic movements as per the warrants provided in Figure 4.9 of the *Austroads Guide to Road Design Part 4A* prior to the introduction of additional traffic movements.
- As per the RMS previous advice of 4 May 2015 (see attached), a speed limit reduction on Bombay Road will not be permitted. Council as Roads Authority should be satisfied that the intersection of the Site Access Road and Bombay Road is to be designed and constructed in accordance with the current Austroads Guidelines for the posted 100k/h speed zone. The intersection treatment needs to safely accommodate turn movements for the largest design vehicle requiring access to the site.
- RMS highlights that in determining the application under Part 4 of the Environmental Planning and Assessment Act, 1979, it is the consent authority's responsibility to consider the environmental impacts of any road works which are ancillary to the development. This includes any works which form part of the proposal and/or any works which are deemed necessary to include as requirements in the conditions of development consent. Depending on the level of environmental assessment undertaken to date and nature of the works, the consent authority may require the developer to undertake further environmental assessment for any ancillary road works.

Upon determination of this matter, it would be appreciated if Council could email a copy of the Notice of Determination to RMS via development.southern@rms.nsw.gov.au.

If you have any questions please contact Hala Sattouf on 4221 2769.

Yours faithfully

A handwritten signature in black ink, appearing to be 'Chris Millet', with a stylized, cursive script.

for Chris Millet
Manager Land Use
Southern Region

Enc: RMS Response 4 May 2015

4 May 2015

Brendan Belcher
Palerang Council
PO Box 348
Bungendore NSW 2621

**EIS PRE-LODGE MENT CONSULTATION - LOT 109 DP 755911, BOMBAY ROAD,
BRAIDWOOD, WASTE TRANSFER STATION AND RESOURCE RECOVERY CENTRE**

Dear Brendan,

Roads and Maritime Services (RMS) refers to your email dated 24 April 2015 regarding the subject EIS pre-lodgement consultation.

RMS has reviewed the submitted information and offers the following comments for your consideration:

- It appears that staff trips have not been included in traffic generation for the site. Additionally, it is unclear whether the proposal will require additional staff when compared with the existing facility.
- It is advised that RMS is the sole authority responsible for the review and installation of permanent speed zones across New South Wales. Speed zones should be intuitive to the driver, with the road environment and adjacent land uses effectively informing the driver of the speed zone. RMS does not support the proposed extension of the existing 60km/h zone further to the west, to cover the frontage of the proposed development. Given the straight alignment and minimal road side development along Bombay Road it is considered that the existing 100km/h speed limit is appropriate. A reduction in the speed limit at this location is likely to lead to compliance and enforcement issues.
- Given that a reduction in speed zone is not supported, any proposed works required for the access to the development from Bombay Road should be designed to the requirements of the existing 100 km/h speed limit.
- It appears that sight distance at the proposed property access is achieved in both directions for a 100km/h zone.

RMS has reviewed the concept intersection design provided and provides the following comments:

- It is noted that the concept intersection design provided has been designed for a 60km/h speed zone.

Roads & Maritime Services

- The BAR does not comply with current design reference documents for a 25m B Double as the design vehicles
- It is unclear if the proposed layout complies with a BAL. It is unclear what the area adjacent to the access road is.
- The two culverts at the intersection require lengthening. The new headwalls should be located outside of the clear zone.

Please note that the above is pre DA advice based on the information provided by the proponent. RMS position is subject to change, dependant on the information provided in any future development application.

If you have any questions please contact Melissa Steep on 4221 2771.

Yours faithfully,



Chris Millet
Manager Land Use
Southern Region

Roads & Maritime Services

Level 4, Southern Regional Office, 90 Crown Street, Wollongong NSW 2500 | PO Box 477 Wollongong East NSW 2520
T 02 4221 2460 | F 02 4221 2777 | www.rmsservices.nsw.gov.au |



NSW RURAL FIRE SERVICE



The General Manager
Palerang Council
PO Box 348
BUNGENDORE NSW 2621



Your Ref: DA.2015.093

Our Ref: D15/1586

ATTENTION: Haydon Murdoch

2 July 2015

Dear Sir/Madam

Designated Development Lot 109 DP 755911, Bombay Road Braidwood

I refer to your letter dated 5 June 2015 seeking assessment and comments regarding bush fire protection for the above Designated Development in accordance with the *Environmental Planning and Assessment Act 1979*.

The New South Wales Rural Fire Service has reviewed the information submitted and provides the following recommended conditions:

Asset Protection Zones

The intent of measures is to provide sufficient space and maintain reduced fuel loads so as to ensure radiant heat levels of buildings are below critical limits and to prevent direct flame contact with a building. To achieve this the following conditions shall apply:

1. To allow for emergency service personnel and occupants to undertake property protection activities, a defensible space that permits unobstructed pedestrian access is to be provided around all buildings.
2. At the commencement of building works and in perpetuity a 10m asset protection zone shall be provided around all buildings as outlined within section 4.1.3 and Appendix 5 of *Planning for Bush Fire Protection 2006*

Postal address

NSW Rural Fire Service
Records Management
Locked Bag 17
GRANVILLE NSW 2142

Street address

NSW Rural Fire Service
Batemans Bay Customer Service Centre
Unit 2, 63 Cranbrook Road
BATEMANS BAY NSW

T (02) 4472 0600

F (02) 4472 0690

www.rfs.nsw.gov.au

Email:

csc@rfs.nsw.gov.au



Water and Utilities

The intent of measures is to provide adequate services of water for the protection of buildings during and after the passage of a bush fire and to locate gas and electricity so as not to contribute to the risk of fire to a building. To achieve this the following conditions shall apply:

3. Water, electricity and gas are to comply with the requirements of section 4.1.3 of *Planning for Bush Fire Protection 2006*.

Access

The intent of measures for property access is to provide safe access to/from the public road system for fire fighters providing property protection during a bush fire and for occupants faced with evacuation. To achieve this the following conditions shall apply:

4. Property access roads shall comply with section 4.1.3 of *Planning for Bush Fire Protection 2006*.

Landscaping

5. Any proposed landscaping to the site shall comply with the principles of Appendix 5 of *Planning for Bush Fire Protection 2006*.

For any queries regarding this correspondence please contact Steve Dubois on 1300 NSW RFS.

Yours sincerely



Amanda Moylan

Team Leader Development Assessment and Planning

Batemans Bay Customer Service Centre

Lisa Foley

From: SATTOUF Hala <Hala.SATTOUF@rms.nsw.gov.au>
Sent: Thursday, 7 January 2016 10:19 AM
To: Haydon Murdoch
Subject: RE: Braidwood WTS

Hi Hayden,

Thank you for the additional information. I have reviewed the memorandum prepared by Hyder. RMS is satisfied the previously raised issues have been appropriately addressed. Therefore, RMS does not object to the development application in principle. Please note however, a design review of the access has not been undertaken as Bombay Road is an unclassified road. Council should be satisfied with the design of the site access.

Kind Regards,

Hala Sattouf
Development Assessment Officer
Network NSW | Journey Management
T 02 4221 2769 M 0429 505 979
www.rms.nsw.gov.au
Every journey matters

Roads and Maritime Services
Level 4 90 Crown Street Wollongong NSW 2500

From: Haydon Murdoch [mailto:haydon.murdoch@palerang.nsw.gov.au]
Sent: Thursday, 7 January 2016 9:02 AM
To: Development Southern
Subject: FW: Braidwood WTS

Attention Hala.

See attachments. In response to comments.

Thanks

Haydon Murdoch

Town Planner - Palerang Council
Phone: (02) 6238 8111
Email: records@palerang.nsw.gov.au

From: Brendan Belcher
Sent: Friday, 21 August 2015 2:23 PM
To: Haydon Murdoch <haydon.murdoch@palerang.nsw.gov.au>
Cc: Records <Records@palerang.nsw.gov.au>
Subject: FW: Braidwood WTS

Response to comments. Clock starts now!

Records, could you please register these against DA.2015.093, Hyder/WaterNSW/RMS as customers, Waste Management subject and Braidwood WTS Design project.

Cheers,

Brendan Belcher
Project Engineer
Palerang Council

From: Zoe Wood [<mailto:Zoe.Wood@hyderconsulting.com>]
Sent: Friday, 21 August 2015 2:04 PM
To: Brendan Belcher
Cc: Adam Sapula; Ellen Hird; Westley Owers; AA007561; Sally Manahan; Philippe Vienot
Subject: Braidwood WTS

Hello Brendan,

As discussed yesterday, please find attached the responses to Council regarding RMS and WaterNSWs comments on the Braidwood WTS EIS. If you could forward these to Hayden Murdoch that would be appreciated.

Should you have any questions please give me a call.

Regards,

Zoe.

Zoe Wood BA MEnvSc
Senior Environmental Consultant
Direct: +61 (0) 2 8907 9094 | Mobile: +61 (0) 411 384 639
Phone: +61 (0) 2 8907 9000 | Fax: +61 (0) 2 8907 9001

Hyder Consulting Pty Ltd
Locked Bag 6503
Level 5, 141 Walker Street
North Sydney NSW 2060
www.hyderconsulting.com

Follow us on:     

Hyder is a multinational design and engineering consultancy

Please consider the environment - do you really need to print this email?



Click here to see [Hyder's Projects of The Year 2014](#)

This message contains information which is confidential and may also be privileged. It is for the exclusive use of the intended recipient(s). If you are not the intended recipient(s) please note that any form of distribution, copying or use of this communication or the information in it is strictly prohibited and may be unlawful.

If you have received this communication in error please return it to the sender and then delete the email and destroy any copies of it. Thank you.

Hyder Consulting cannot guarantee that this message or any attachment is virus-free or has not been intercepted or changed.

Any opinions or other information in this message that do not relate to the official business of the Company are neither given nor endorsed by it.

This e-mail has been scanned for viruses by MCI's Internet Managed Scanning Services - powered by MessageLabs. For further information visit <http://www.mci.com>



Before printing, please consider the environment

IMPORTANT NOTICE: This email and any attachment to it are intended only to be read or used by the named addressee. It is confidential and may contain legally privileged information. No confidentiality or privilege is waived or lost by any mistaken transmission to you. Roads and Maritime Services is not responsible for any unauthorised alterations to this email or attachment to it. Views expressed in this message are those of the individual sender, and are not necessarily the views of Roads and Maritime Services. If you receive this email in error, please immediately delete it from your system and notify the sender. You must not disclose, copy or use any part of this email if you are not the intended recipient.



This e-mail has been scanned for viruses by MCI's Internet Managed Scanning Services - powered by MessageLabs. For further information visit <http://www.mci.com>

Ref: 15129-a1
Your Ref: 2015.093

General Manager
Palerang Council
PO Box 348
BUNGENDORE 2621

Attention: Haydon Murdoch

Dear Sir/Madam

**Subject: Sydney Drinking Water Catchment SEPP
DA No 2015.093; Lot 109 DP 755911; Bombay Road, Braidwood**

I refer to Council's letter received 15 June 2015 requesting the concurrence of Water NSW under Clause 11 of State Environmental Planning Policy (Sydney Drinking Water Catchment) 2011 (the SEPP) with a proposal for a waste transfer station. Additional amended information and submissions were received in August to November 2015.

The subject property, which has been inspected by Water NSW, is located within the Shoalhaven catchment which forms part of Sydney's water supply.

The following documents have been considered in the assessment of the proposal:

- Environmental Impact Statement for the Braidwood Waste Transfer Station and Resource Recovery Centre (dated May 2015) and the Site Plan (dated 6 November 2015) both prepared by Hyder Consulting Pty Ltd, and
- Water Management Plan for the Braidwood Waste Transfer Station prepared by Hyder Consulting Pty Ltd (dated 16 October 2015) and associated MUSIC model.

Based on Water NSW's site inspection and the information provided, the proposed development has been assessed by Water NSW as being able to achieve a neutral or beneficial effect on water quality provided appropriate conditions are included in any development consent and are subsequently implemented.

Water NSW would therefore concur with Council granting consent to the application subject to the following conditions being imposed:

General

1. The layout of the Waste Transfer Station and Resource Recovery Centre shall be as shown on the Site Plan prepared by Hyder Consulting Pty Ltd (Dwg. No. A0001 Project AA007561 Issue G, dated 6/11/15). There shall be no revision to the layout or proposed works without the agreement of Water NSW.
2. The Waste Transfer Station shall be operated generally in accordance with the Braidwood Waste Transfer Station and Resource Recovery Centre: Environmental Impact Statement prepared by Hyder Consulting Pty Ltd (dated 14 May 2015).

Reason for Conditions 1 & 2 - Water NSW has based its assessment under State Environmental Planning Policy (Sydney Drinking Water Catchment) 2011 on this version of the development.

Domestic Wastewater Management

3. All domestic wastewater generated on the site shall be directed to Council's reticulated sewerage system.

Reason for Condition 3 - To ensure that all wastewater generated on the site is disposed of to Council's sewerage system so as to ensure a sustainable neutral or beneficial effect on water quality over the longer term.

Stormwater Management

4. All stormwater management measures shall be implemented as shown in the Water Management Plan for the Braidwood Waste Transfer Station prepared by Hyder Consulting (dated 16 October 2015) or as elaborated or varied in the conditions below.
5. The bioretention basin shall also incorporate the following specifications:
 - have a filter media consisting of a clean sandy loam with a certified median particle diameter of 0.5 mm, a maximum orthophosphate concentration of 40 mg/kg and a maximum total nitrogen concentration of 400 mg/kg
 - be planted with appropriate deep-rooted, moisture-tolerant vegetation protected by rock mulch (grass and turf is not appropriate vegetation and organic mulch is not suitable)
 - signs shall be erected to advise of the nature and purpose of the bioretention basin's water quality management function
 - be accessible from road or driveway by machinery to facilitate cleaning, monitoring and maintenance of the structures
6. All stormwater discharge points into or from the swales or bioretention basin shall have armoured headwalls and shall be designed such that discharge does not cause erosion.
7. All stormwater management measures, being the gross pollutant traps, buffer strips, swales and the bioretention basin, shall be protected by sediment and erosion control measures during any construction and post-construction phase until the ground surface is revegetated or stabilised.
8. The filter section of the bioretention basin shall be constructed after all hardstand areas have been paved or sealed and all ground surfaces have been stabilised.
9. No variation to stormwater treatment or management shall be permitted without prior agreement of Water NSW.
10. A suitably qualified stormwater consultant or engineer shall certify in writing to Water NSW and Council that all stormwater management structures have been installed as per these conditions of consent and are in a functional state.

Reason for Conditions 4 to 10 - To maximise stormwater collection, treatment and reuse, and minimise the impact of runoff on receiving waters, and to provide offsets so as to ensure a sustainable neutral or beneficial effect on water quality over the longer term.

Leachate Management

11. All leachate management measures shall be implemented as shown in the Water Management Plan for the Braidwood Waste Transfer Station prepared by Hyder Consulting Pty Ltd (dated 16 October 2015) or as elaborated or varied in the conditions below.

12. Liquid captured in the bunded "hot zone" area and shall be disposed of at an appropriately licensed facility.
13. The leachate evaporation pond shall be designed and constructed in accordance with the Environmental Guideline: Composting and Related Organics Processing Facilities (Department of Environment and Conservation 2004).
14. The leachate evaporation pond shall be connected to the Emergency Storage Pond in the adjacent Braidwood Sewage Treatment Plant as described in Section 3.2.10 of the Water Management Plan for the Braidwood Waste Transfer Station prepared by Hyder Consulting Pty Ltd (dated 16 October 2015).
15. Markers shall be placed in the Emergency Storage Pond showing the level of liquid including a specific level to show the pond is 10% full.

Liquid and Spill Management and Household Chemical Storage Area

16. Stored oils and other contaminated liquids must be kept in separate bunded areas with a minimum capacity of 110% of the volume of liquid stored.
17. Any liquids collected in the Household Chemical Storage area and the putrescible waste bin pits or any external sumps, must be pumped out and disposed of at an appropriately licensed facility, and shall not be stored or treated outside of the building.

Reason for Conditions 11 to 17 – To ensure the storage and handling of all wastes and oils and the treatment of leachates is undertaken in a manner that reduces the risk of spills and prevents pollution on the site, so as to ensure a sustainable neutral or beneficial impact on water quality over the longer term.

Operational Environmental Management Plan

18. An Operational Environmental Management Plan (OEMP) shall be developed in consultation with Water NSW prior to the commencement of operation of the facility. The OEMP shall detail, but not be limited to, the procedures, management responsibilities and reporting for the following:
 - the operation of the waste or resource transfer process
 - the maintenance of the Household Chemical Storage area and the putrescible waste bin pit and the management of any leachate or other liquid waste collected inside the facility
 - emergency procedures for containment and spill management both inside and outside the facility including an incident management plan
 - the inspection, monitoring and maintenance of all stormwater management structures, including gross pollutant traps, stormwater pits and drainage network, grassed buffer strips, swales, bioretention basin and rainwater tanks
 - the management of potential contaminants and litter in the facility and on the site
 - the "hot zone" area
 - the leachate evaporation dam
 - the Emergency Storage Pond in the adjacent sewerage treatment plan, especially when the level of liquid in the pond exceeds 10% of its capacity.

Reason for Condition 18 – To ensure the facility is appropriately managed so as to achieve a sustainable neutral or beneficial effect on water quality over the longer term.

Construction Activities and Construction Environmental Management Plan

19. An Construction Environmental Management Plan (CEMP) shall be developed in consultation with Water NSW prior to the commencement of construction of the facility. The CEMP shall detail, but not be limited to, the procedures, management responsibilities and reporting for the following:

- the concrete washout area
- a Soil and Water Management Plan (SWMP) shall be prepared by a person with knowledge and experience in the preparation of such plans for all works proposed as part of the development. The SWMP shall meet the requirements outlined in Chapter 2 of the NSW Landcom's 'Soils and Construction: Managing Urban Stormwater' (2004) manual - the 'Blue Book'. The Plan shall be to the satisfaction of Council.

20. Effective erosion and sediment controls shall be installed prior to any construction activity. The controls shall prevent sediment or polluted water leaving the site or entering a drainage depression or stormwater drain, and shall be regularly maintained and retained until works have been completed and the ground surface has been stabilised or groundcover established.

Reason for Conditions 19 & 20 – To manage adverse environmental and water quality impacts during the construction phase of the development so as to minimise the risk of erosion, sedimentation and pollution within or from the site during this phase.

Under Clause 11 of the SEPP, Council must provide the Water NSW with a copy of its determination of the application within 10 days of the determination.

If you wish to discuss this matter further please contact James Caddey on 4824 3401.
Yours sincerely



24/11/15

FRANCES KELLY
Manager Planning and Assessments