



Our ref: DOC21/377210

Senders ref: SSD 9522 Mod 1 (Penrith)

Bianca Thornton
Environmental Assessment Officer
Energy Resource
Planning and Assessment Group
Department of Planning, Industry and Environment
4 Parramatta Square, 12 Darcy Street
Parramatta NSW 2150

Dear Ms Thornton,

**Subject: Proposed Warehouse Logistics and Industrial Facilities Hub MOD 1, 657-769
Mamre Road, Kemps Creek (SSD 9522)**

Thank you for your e-mail received 6 May 2021, requesting input from Environment, Energy and Science Group (EES) in the Department of Planning, Industry and Environment (DPIE) on the proposed warehouse logistics and industrial facilities MOD 1. The intention of the proposed modification is to provide amendments to the Site Layout (Subdivision Plans and Masterplan) approved under SSD 9522, which would service to provide the future end user with a functional layout to facilitate the future development of Warehouse and Distribution Facility at proposed Lot 5.

To assist DPIE, EES has reviewed the Modification Report and relevant documents and considers that the proposed modification is unlikely to impact on the natural hazards, however, EES suggests that waterway health matters be considered as outlined below.

Waterway health

Please note that EES recommends that the proponent consider the following *Risk-based Framework for Considering Waterway Health Outcomes in Strategic Land-use Planning Decisions* <http://www.environment.nsw.gov.au/research-and-publications/publicationssearch/risk-based-framework-for-considering-waterway-health-outcomes-in-strategic-land-use-planning>.

In accordance with the *Risk-based Framework* EES has developed the NSW Government water quality and flow related objectives (Tables 1 and 2 below) for the Wianamatta-South Creek catchment to achieve the vision for Western Sydney Parkland City. The water quality and flow related objectives were provided to key stakeholders at a workshop on 19 October 2020 and were included in the recently exhibited Draft Aerotropolis Precinct Plan.

EES has also worked closely with DPIE Place Design and Public Spaces in developing the exhibited draft Mamre Road Precinct DCP and it is expected that the interim objectives in Section 2.6 in the draft DCP will be superseded by tables 1 and 2 below as follows:

- Page 26, Section 2.6 Integrated Water Cycle Management:
following the description of the flow components the new Table 1 (below) will be added and referred to. Also, 'and baseflow requirements' in the last/following sentence will be deleted.

Table 1 Ambient stream flows and requirements of waterways and water dependent ecosystems in the Mamre Road Precinct

Flow Related Objectives		
	1-2 Order Streams	3 rd Order Streams or greater
Median Daily Flow Volume (L/ha)	71.8 ± 22.0	1095.0 ± 157.3
Mean Daily Flow Volume (L/ha)	2351.1 ± 604.6	5542.2 ± 320.9
High Spell (L/ha) ≥ 90 th Percentile Daily Flow Volume	2048.4 ± 739.2	10091.7 ± 769.7
High Spell - Frequency (number/y)	6.9 ± 0.4	19.2 ± 1.0
High Spell - Average Duration (days/y)	6.1 ± 0.4	2.2 ± 0.2
Freshes (L/ha) ≥ 75 th and ≤ 90 th Percentile Daily Flow Volume	327.1 to 2048.4	2642.9 to 10091.7
Freshes - Frequency (number/y)	4.0 ± 0.9	24.6 ± 0.7
Freshes - Average Duration (days/y)	38.2 ± 5.8	2.5 ± 0.1
Cease to Flow (proportion of time/y)	0.34 ± 0.04	0.03 ± 0.007
Cease to Flow – Duration (days/y)	36.8 ± 6	6 ± 1.1

- Page 30, Section 2.6.2 Stormwater Quality: Table 6 will be replaced with the new Table 2 below.

Table 2 Ambient water quality of waterways and waterbodies in the Mamre Road Precinct

Water Quality Objectives	
*Total Nitrogen (TN, mg/L)	1.72
Dissolved Inorganic Nitrogen (DIN, mg/L)	0.74
Ammonia (NH ₃ -N, mg/L)	0.08
Oxidised Nitrogen (NO _x , mg/L)	0.66
*Total Phosphorus (TP, mg/L)	0.14
Dissolved Inorganic Phosphorus (DIP, mg/L)	0.04
Turbidity (NTU)	50
Total Suspended Solids (TSS, mg/L)	37
Conductivity (µS/cm)	1103
pH	6.20 - 7.60

Should you have any queries regarding this matter, please contact Bronwyn Smith, Senior Conservation Planning Officer on 9873 8604 or bronwyn.smith@environment.nsw.gov.au

Yours sincerely

A handwritten signature in black ink that reads "S. Harrison". The signature is written in a cursive, flowing style.

17/05/21

Susan Harrison
Senior Team Leader
Biodiversity and Conservation
Environment, Energy and Science