

15 February 2021

Simon Joseph
Waterloo OSD Development Manager
John Holland
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Dear Simon,

Re: Waterloo Metro Quarter Building 3 and 4 – City of Sydney Council Waste Responses

The purpose of this letter is to address City of Sydney Councils Waste Responses (72 & 74), as per the below:

City of Sydney Response	Elephants Foot Recycling Solutions (EFRS) Response
<p>72. The City has developed a waste calculator to ensure development provides sufficient waste storage facilities in accordance with the City's Guidelines for Waste Management in New Developments. Please find attached a PDF with the estimated area required for waste bins. The City requests that the developer use the waste calculator and demonstrate that sufficient area has been provided to meet the needs of each use proposed on site. Please note that the City discourages more than 3 collections per week to minimise traffic movements.</p>	<p>EFRS notes that the waste calculator will not be entirely accurate for some waste rooms, as it does not account for waste management equipment, including linear track systems and compactors etc, which require additional space. It is also prominent that some calculations do not align with City of Sydney Council's <i>Guidelines for Waste Management in New Developments 2018</i>, hence there are inconsistencies in information. EFRS have based calculations in the Operational Waste Management Plan (OWMP) off Council's <i>Guidelines for Waste Management in New Developments 2018</i>.</p> <p>A comparison of spatial advice derived from City of Sydney Council's waste calculator and actual waste room sizes based off the architectural plans for each waste area are provided below.</p> <p><u>Social Housing Waste Room</u> Calculator: 18.6m² Area Provided: 43m²</p> <p>The additional area provided is to accommodate 2 x 2-bin linear track systems for 1100L bins, hence this room complies with the waste calculator.</p> <p><u>Social Housing Bulky Waste Room</u> Calculator: 10.5m² Area Provided: 9m²</p> <p>The area provided was calculated using the <i>Guidelines for Waste Management in New Development 2018s</i>, however upon reviewing the calculator an additional 1m² has been provided in the architectural plans for textile waste storage, hence this room complies with the guidelines.</p> <p><u>Boarding House Waste Room</u> Calculator: 53.1m² (based off 3 x weekly collections which is the maximum option available) Area Provided: 48m² (based off 5 x weekly collections)</p>

	<p>2 x 2-bin linear track systems for 1100L bins are provided in this waste room, hence the calculator does not capture this.</p> <p>5 x weekly collections are the preferred option, and the PTC have advised that 5 x weekly collections will have no impact on traffic congestion. IGLU boarding houses typically have a building manager onsite 24/7, who will monitor the capacity of bins and schedule in collections when required. Generally collections of up to 5 x weekly are typical for these sites to maintain a high standard of cleanliness in the facility.</p> <p>Boarding House Bulky Waste Storage (caged off) Calculator: 8m² Area Provided: 15m²</p> <p>The area provided was calculated using the <i>Guidelines for Waste Management in New Developments 2018</i>, hence it is compliant with the guidelines but inconsistent with the waste calculator requirement.</p> <p>Commercial Waste Room Calculator: 22m² Area Provided: 28m²</p> <p>The area provided is based off 5 x weekly collections, yet it is still greater than the waste calculator requirement. To ensure that all bins are accessible, a greater area than 22m² is required.</p> <p>Commercial Bulky Waste Room Calculator: 8m² Area Provided: 8m²</p> <p>This is compliant with the waste calculator.</p>
<p>74. It is noted that the development does not currently provide for separate food waste collection, contrary to the guidelines. Sufficient space must be provided for food waste for each relevant use. The City is trialling a food waste collection service and the developer is encouraged to make provision for this service, rather than providing on-site composting which in the City's experience is likely to fail. Again, the <i>Guidelines for Waste Management in New Development</i> provides suitable provisions.</p>	<p><u>Social Housing</u> Should City of Sydney Council's food waste trial progress to a Council service during operation of the site, the social housing component will consider options to integrate separate food waste facilities into the facility. Food waste generation rates, available bin sizes and collection frequencies are not readily available at this stage in the <i>Guidelines for Waste Management in New Developments 2018</i>.</p> <p>Based on the food waste generation rate available for single dwellings (40L/dwelling/week), 8 x 120L bins would substitute 1 x 1100L general waste bin. If the substitution of general waste bins to food waste bins is to occur during operation, 8 x 120L food waste bins will be provided in the social housing waste room for residents to access and dispose of their food waste. The chutes and linear track systems must be caged off from these bins, with access granted to authorised personnel only.</p>

	<p><u>Boarding House</u></p> <p>The provision of food waste has been considered in the boarding house calculations and bin summary; however, food waste has been included with the general waste stream in the Operational Waste Management Plan and will be managed with general waste.</p> <p>Should the boarding house operator elect to separate food waste from general waste during operation, this provision has been allowed for and 38 x separate 120L food waste bins will be provided in the waste room to substitute 4 x 1100L waste bins. These food waste bins will be caged off at the southern end of the waste room and a door will be inserted to provide access to students if this is to occur.</p> <p><u>Commercial</u></p> <p>Due to the commercial component having dining/kitchen areas, food waste has been considered and separated from general waste in the OWMP.</p> <p>5 x 120L separate food waste bins have been provided in the commercial waste room.</p>
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If you require any further information or clarification, please do not hesitate to contact me.

Kind Regards,



Ashleigh Armstrong
Consultancy Services Manager