

Our Ref: PNL:ACS:944815

9 April 2020

Mr Stephen Barry
Director of Planning
Independent Planning Commission
Level 3, 201 Elizabeth Street
Sydney NSW 2000

By Email

Dear Sir

Genesis Waste Management Facility - Modification 6 (MP 06_0139)
Jacfin Submission to Independent Planning and Assessment Commission (IPC)
Site: Honeycomb Drive, Eastern Creek

We refer to Jacfin's submission to the IPC dated 6 April 2020.

As foreshadowed, we have reviewed the draft Conditions of Approval proposed by the Department of Planning Infrastructure and Environment in its Recommended Instrument of Modification in relation to the Genesis Waste Management Facility.

For the reasons stated in the Jacfin Submission, Jacfin reiterates its position that the Modification Application ought be refused. However, should the IPC determine to approve the Modification Application, Jacfin submits that the following amended conditions be imposed.

1. Waste Recovery - Schedule 3 - Condition 1

The Proponent states in its Environmental Impact Statement (**EIS**) that the Facility recycles an estimated 65-80% of all incoming waste. However, Schedule 3 Condition 1 permits that 1,000,000 tonnes per annum (**tpa**) of non-putrescible may be landfilled excluding residual waste from the Materials Processing Centre (**MPC**) and Pre-Sort Enclosure.

This allows the proponent to landfill an additional 1,000,000 tpa provided it passes through the MPC and Pre-Sort Enclosure.

To avoid this outcome, the Proponent should be required to operate the MPC and Pre-Sort Enclosure so as to recover at least the 65% minimum performance as stated in the EIS.

Jacfin submits this condition be amended as follows.

Amended Condition

The Proponent must not:

Adelaide
Brisbane
Canberra
Darwin
Hobart
Melbourne
Norwest
Perth
Sydney

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- (a) *landfill more than 1,000,000 tonnes of non-putrescible waste per calendar year (excluding residual waste from the Materials Processing Centre and Pre-Sort Enclosure);*
- (b) *receive or landfill putrescible waste on site;*
- (c) *stockpile more than 50 tonnes of tyres on site at any one time;*
- (d) *stockpile more than 20,000 tonnes of green waste on site and any one time;*
- (e) *receive waste on site that is contaminated by chemicals and/ or pathogens that will not be rendered harmless by the process or that may constitute a health or environmental risk, including clinical and related waste and diseased carcasses; **and***
- (f) *receive waste on site containing contaminants classified as hazardous waste, restricted waste (other than asbestos) or liquid waste under the POEO Act; **and***
- (g) **recover less than 65% of the waste passing through the materials Processing Centre and Pre-Sort Facility.**

2. Air Quality-Dust - Schedule 3 - Condition 29

Condition 29 sets limits on dust and particulate emissions from the Facility.

Condition 29 should be amended as it does not align with the Proponent's Air Quality Impact Assessment dated August 2018 (**AQIA**).

Table 2-2 of the AQIA predicts the ground level concentrations as per the table extracted below.

PM metric	Averaging period	Concentration ($\mu\text{g}/\text{m}^3$)
TSP	Annual	90
PM_{10}	24 hour	50
	Annual	25
$\text{PM}_{2.5}$	24 hour	25
	Annual	8

Note: $\mu\text{g}/\text{m}^3$ = micrograms per cubic metre.

Jacfin submits Condition 29 of Schedule 3 should be **amended** to align with the AQIA, as follows.

Amended Condition

The Proponent shall ensure that dust generated by the development does not cause additional exceedance of the criteria listed in Tables 1 to 3 at any residence on, or on more than 25 percent of, any privately owned land.

Table 1: Long term impact assessment criteria for particular matter

Pollutant	Averaging period	Criterion
Total suspended particulate (TSP) matter	Annual	90 µg/m ³
Particulate matter < 10 µm (PM ₁₀)	Annual	30 25 µg/m ³

Table 2: Short term impact assessment criteria for particulate matter

Pollutant	Averaging period	Criterion
Particulate matter < 10 µm (PM ₁₀)	24 hour	50 µg/m ³

Table 3: Long term impact assessment criteria for deposited dust

Pollutant	Averaging period	Maximum increase in deposited dust level	Maximum total deposited dust level
Deposited Dust	Annual	2 g/m ² /month	4 g/m ² /month

Note: Deposited dust is assessed as insoluble solids as defined by Standards Australia, 1991, AS/NZS 3580.10.1-2003: Methods for Sampling and Analysis of Ambient Air - Determination of Particulates - Deposited Matter - Gravimetric Method.

3. Air Quality - Odour - Schedule 3 - Condition 31

Stockpiling green waste encourages anaerobic conditions, which is the biodegradation of material that does not receive sufficient air. This process promotes the generation of methane which is accompanied by the production of odour caused by the generation of ammonia, volatile amines (when the degrading organics have a high nitrogen content), hydrogen sulphide and volatile organic compounds.

The poor quality of the odour modelling contained in the Modification Application does not provide any confidence that odours generated by green waste can be appropriately managed or mitigated. Accordingly, Jacfin submits that any green waste stored on the Site must be enclosed.

Jacfin submits that Condition 31 of Schedule 3 be **amended** as follows.

Amended Condition

~~If the Independent Environmental Audit (see Condition 7 of Schedule 5) recommends that the green waste area (see plan in Appendix 1) must be enclosed to reduce the odour impacts of the project, then the Proponent shall enclose the area to the satisfaction of the Secretary within the timeframe specified by the Secretary.~~

4. Air Quality - Dust - Schedule 3 - Condition 37

Given the concerns raised by Jacfin and the community in relation to air quality and odour impacts likely to be generated by the expanded operation of the Facility, Jacfin submits that Condition 37 of Schedule 3, of the Proposed Conditions be **amended** as follows.

Amended Condition

The Proponent must prepare and implement an Air Quality, Odour and Greenhouse Gas Management Plan for the project to the satisfaction of the Planning Secretary. This plan must:

- (a) *be prepared in consultation with the EPA and by a suitably qualified, experienced and independent expert whose appointment has been endorsed by the Planning Secretary;*
- (b) *include an air quality and odour monitoring program, which details:*
 - *the location, frequency and duration of monitoring which adequately represents of the sensitive receptors;*
 - *the provision for real-time boundary particulate matter **and odour** monitoring; and*
 - *key performance indicators for monitoring;*
- (c) *include an air quality and odour mitigation strategy which, **in respect of normal operations and upset conditions:***
 - *details proactive measures to minimise odour and air quality impacts;*
 - *identifies real-time boundary monitoring trigger levels for remedial action;*
 - *details the remedial action that will be taken if trigger levels are exceeded;*
- (d) ...

5. Independent Environmental Audit - Schedule 5 - Condition 7

Given the importance of the recycling function of the Facility the proposed Independent Environmental Audit must include verification that the sorting facility will continue to operate to its intended performance specifications and recover at least 65% of material processed.

Jacfin submits that Condition 7 of Schedule 5 be amended as follows.

Amended Condition

Within 6 months of the commencement of operation, and every 2 years thereafter, unless the Secretary directs otherwise, the Proponent shall commission and pay the full cost of an Independent Environmental Audit of the project. This audit must:

- (a) *be conducted by suitably qualified, experienced and independent team of experts (including an odour expert), whose appointment has been endorsed by the Secretary;*

- (b) include consultation with the relevant agencies;
- (c) include a full odour audit of the project, taking into consideration the relevant technical guidelines and any odour complaints made since the previous audit;
- (d) assess the environmental performance of the project and assess whether it is complying with the relevant requirements in this approval and any relevant EPL (including any assessment, plan or program required under these approvals);
- (e) review the adequacy of strategies, plans or programs required under these approvals; and, if appropriate, **and**
- (f) recommend measures or actions to improve the environmental performance of the project, and/or any assessment, plan or program required under these approvals; **and**
- (g) **include a review of all weighbridge, and other input and output data, and data for materials being transferred internally, to verify that at least 65% of the waste passing through the Materials Processing Facility is recovered and not landfilled.**

Note: This audit team must be led by a suitably qualified auditor and include experts in any fields specified by the Secretary.

Jacfin would appreciate the opportunity to discuss the matters raised above with the IPC. Jacfin understands that such a meeting will be recorded and transcribed and made publically available.

Yours faithfully



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