

Modification of Minister's Approval

Section 75W of the *Environmental Planning and Assessment Act 1979*

As delegate for the Minister for Planning, under the Instrument of Delegation executed on 11 October 2017, I approve the modification of the Project Approval referred to in Schedule 1, subject to the conditions outlined in Schedule 2.



Chris Ritchie
Director
Industry Assessments

Sydney 22 DECEMBER 2017

SCHEDULE 1

Project Approval (MP 10_0012), granted by the Planning Assessment Commission on 16 March 2012 for the Woodlawn Waste Expansion Project at 619 Collector Road, Tarago, in the Goulburn Mulwaree and Palerang local government areas.

SCHEDULE 2

This approval is modified as follows:

1. Insert the following definitions in alphabetical order:

Coffer Dam	means coffer dam(s) in ED1 as referred to in MOD 3
ED1	Evaporation Dam No. 1 as referred to in MOD 3 (the unlined portion of ED1)
EPL	Environment Protection Licence
LTP	Leachate Treatment Plant
ML	Megalitre
MOD 2	Modification Application titled <i>Modification of DA 31-02-99 and MP10_0012 for the construction of a leachate treatment plant and associated infrastructure and changes to regional waste limits and operating hours prepared by SG Haddad Advisory and CW Strategic Planning Services, dated May 2017 and Response to Submissions dated October 2017</i>

2. Delete all references to "Water-NSW" and replace with "Water NSW".
3. Delete the definition of "Water NSW" and insert the following definition in alphabetical order:

Water NSW NSW manager and protector of the Sydney Drinking Water Catchment

In Schedule 3: Administrative Conditions

4. Delete Condition 2 and replace with the following:
 2. The Proponent shall carry out the Project generally in accordance with the:
 - (a) EA;
 - (b) statement of commitments (see Appendix 1);

- (c) site layout plans and drawings in the EA (see Appendix 2);
- (d) Modification Application MP 10_0012 MOD 1;
- (e) Modification Application MP10_0012 MOD 2; and
- (f) conditions of this approval.

5. Delete conditions 17 and 17A and replace with the following:

Soil and Water Management Plan

17. The Proponent shall prepare and implement a Soil & Water Management Plan for the Landfill to the satisfaction of the Secretary. This plan must:
- (a) be prepared in consultation with EPA, Water NSW and DPI Water by a suitably qualified and experienced expert whose appointment has been endorsed by the Secretary;
 - (b) be approved by the Secretary prior to the commencement of expanded operations;
 - (c) must specifically consider soil and water management (including leachate management) at the Landfill and ED3N, ED3S, ED3S-S, ED2, coffer dam(s) and ED1;
 - (d) include a water balance for the project;
 - (e) include a surface water monitoring program;
 - (f) include a groundwater monitoring program; and
 - (g) ensure that suitable measures are implemented to minimise water use, control soil erosion, prevent groundwater contamination, and comply with any surface water discharge limits.

This plan must be documented in the Landfill EMP (see Condition 3 in Schedule 7).

- 17A. The Proponent shall update the Soil and Water Management Plan for the landfill by including the proposed changes to water and leachate management in MOD 1 and MOD 2. The Plan shall be prepared in accordance with the requirements of Condition 17, in consultation with Water NSW and the EPA and to the satisfaction of the Secretary. Prior to the operations of the LTP or as otherwise agreed by the Secretary, the Proponent must submit a Soil and Water Management Plan to the satisfaction of the Secretary.

6. Delete conditions 18 and 18A and replace with the following:

Leachate Management

18. The Proponent shall prepare and implement a Leachate Management Plan for the Landfill to the satisfaction of the Secretary. This plan must:
- (a) be prepared in consultation with EPA, Water NSW and DPI Water by a suitably qualified and experienced expert whose appointment has been endorsed by the Secretary;
 - (b) be approved by Secretary prior to the commencement of expanded operations;
 - (c) describe in the detail the leachate barrier system installed on site;
 - (d) detail measures to collect and store all leachate generated by the landfill;
 - (e) detail measures to prevent leachate from escaping to surface water, groundwater or the surrounding subsoils;
 - (f) ensure all surface water from areas not subject to waste disposal or leachate disposal is directed away from the leachate management system;
 - (g) treat all water that has entered areas filled with waste, or been contaminated by leachate, as leachate;
 - (h) detail the management measures for the LTP, pipeline and coffer dam(s); and
 - (i) detail how the LTP would be managed during an emergency or system failure.

This plan must be documented in the Landfill EMP (see Condition 3 in Schedule 7).

- 18A. The Proponent shall update the Leachate Management Plan for the landfill by including the proposed changes to the leachate management in MOD 1 and MOD 2. The Plan shall be prepared in accordance with the requirements of Condition 18, in consultation with Water NSW and the EPA and to the satisfaction of the Secretary. Prior to the operation of the LTP or as otherwise agreed by the Secretary, the Proponent must submit a revised Leachate Management Plan to the satisfaction of the Secretary.

7. Insert the following new Condition 18AA after Condition 18A as follows:

Coffer Dam(s)

- 18AA. Should any additional coffer dams in ED1 be required, the Applicant must submit revised management plans in accordance with conditions 17 and 18 to the satisfaction of the Secretary prior to any treated

leachate being discharged to the coffer dams. The plans must be prepared in consultation with the EPA and Water NSW and be documented in the Landfill LEMP.

8. Delete Condition 18E and replace with the following:
- 18E. The Long-term Leachate Management Strategy must be operational no later than 30 September 2018 or as otherwise agreed by the Secretary.

9. Insert the following new conditions after Condition 18E:

Leachate Treatment Plant

- 18F. The Proponent must construct the Leachate Treatment Plant (LTP) and associated infrastructure in accordance with the Construction Environment Management Plan prepared by Veolia dated 12 December 2017.
- 18G. All run-off during construction must be contained on the site, no discharges off-site are permitted.
- 18H. The LTP must be:
- (a) capable of processing at least 4 litres per second of leachate; and
 - (b) bunded to contain 110 % of the facilities largest sized tank.
- 18I. The sludge skip bin must be bunded and covered to prevent contaminants entering surface water.

Coffer Dam(s)

- 18J. Treated leachate must not be discharged to any part of ED1, other than within lined coffer dam(s).
- 18K. The coffer dam(s) in ED1 must be designed and constructed:
- (a) by a suitably qualified and experienced person(s);
 - (b) based on a geotechnical investigation and any recommendations prepared by a suitable qualified person(s); and
 - (c) ensuring that all coffer dams are lined with a High Density Polyethylene liner to the satisfaction of the EPA and in consultation with Water NSW.
- 18L. The Proponent must provide works-as-executed drawings signed by a registered surveyor demonstrating that the coffer dam(s) have been constructed in accordance with the design required by Condition 18K. The Proponent must submit the works-as-executed drawings to the EPA, Water NSW and Secretary prior to the discharge of treated leachate into the coffer dam(s).
- 18M. Prior to the discharge of treated leachate into any coffer dam(s) in ED1, the Proponent must confirm in writing and provide a quality assurance report to the EPA, Water NSW and the Secretary that the High Density Polyethylene dam lining has been adequately installed. From the commencement of discharge of treated leachate into the coffer dam(s), the Proponent shall provide quarterly updates to the EPA, Water NSW and the Secretary of the leachate volume in the coffer dam(s) and the remaining leachate storage volume.
- 18N. Prior to the discharge of treated leachate to any coffer dam(s), the Proponent must install a leak detection system which monitors flows along all pipelines which carry leachate. Any leaks must be investigated, contained and rectified.
- 18O. Only treated leachate from the LTP is permitted to be stored within coffer dam(s) in ED1 unless otherwise agreed to by the Secretary.
- 18P. The coffer dam(s) are not permitted to exceed 80 per cent capacity until either:
- (a) a new coffer dam has been designed and constructed in accordance with condition 18K to 18N and is ready to accept treated leachate from the LTP and a revised management plan has been submitted to the satisfaction of the Secretary in accordance with Condition 17 and 18; or
 - (b) sections of ED3N have been emptied of partially treated leachate, had its liner assessed and, if necessary, repaired, and is capable of receiving treated leachate from the LTP.
- 18Q. No interaction between the treated leachate in the coffer dam(s) and the mine stormwater in ED1 is permitted.
- 18R. Within six months of commissioning the LTP and annually thereafter, unless otherwise agreed to by the Secretary, the Proponent shall commission and pay the full cost of an independent assessment of the leachate and water management system. This audit must be conducted by a suitably qualified, experienced and independent expert whose appointment has been endorsed by the Secretary. During the audit, this expert must:
- (a) consult with the EPA, Water NSW and the Secretary;

- (b) assess actual performance against the assumptions and predictions made in the project water balance prepared by WSP dated September 2017. This must include:
 - (i) actual versus predicted inputs and outputs into and out of each dam;
 - (ii) actual versus predicted mechanical evaporation from each dam;
 - (iii) actual versus predicted rainfall and evaporation; and
 - (iv) the actual versus predicted volume of water or treated leachate stored in each dam.
- (c) assess actual versus predicted performance of the LTP. This must include:
 - (i) actual versus target effluent quality; and
 - (ii) actual versus target throughput.
- (d) determine whether the leachate and water management system is achieving its intended objectives; and
- (e) outline all reasonable and feasible measures that may be required to improve water and leachate management at the site.

ED1

18S. The volume of mine water stored in ED1 must be no more than 10 ML by 31 December 2023.

ED3N

- 18T. ED3N must be emptied of effluent from the existing leachate system by 31 December 2022.
- 18U. Prior to discharging treated leachate into sections of ED3N from the LTP, the Proponent must verify the integrity of the dam and prepare an integrity assessment of the ED3N liner to demonstrate the dam is not leaking and is suitable for the storage of treated leachate.
- 18V. Should the integrity assessment identified in Condition 18U find that the liner in ED3N is not adequate for treated leachate storage, the Proponent must submit management options to the Secretary, Water NSW and the EPA which will be adopted to rectify any integrity issues.
- 18W. The Proponent must not store treated leachate from the LTP in ED3N until the Secretary and the EPA are satisfied that either ED3N is not leaking or the management options identified in Condition 18V are acceptable.

10. Delete Condition 20 and replace with the following:

20. The Proponent shall comply with the operating hours in Table 7 for the site, unless otherwise agreed in writing by the EPA.

Table 7: Operating Hours

Activity	Day	Hours
Construction	Monday - Friday	7 am – 6 pm
	Saturday	7 am – 1 pm
	Sunday & Public Holidays	Nil
Operations	Monday - Saturday	6am – 10 pm
	Sunday, Christmas Day and Good Friday	Nil

11. Delete Condition 25 and replace with the following:

FIRE AND EMERGENCY MANAGEMENT

- 25. The Proponent shall prepare and implement a Fire and Emergency Management Plan for the Landfill. This plan must:
 - (a) be prepared by a suitably qualified and experienced expert;
 - (b) be approved by the Secretary prior to the commencement of expanded operations;
 - (c) identify all threats to the environment and public health that could arise from the operation of the project (e.g. fire, overflow or dam failure);
 - (d) identify strategies to contain and minimise the effects of any threats to the environment and public health such as (but not limited to):
 - (i) measures to minimise the risk of fire on site, including in the landfill area;
 - (ii) actions to extinguish any fires on site promptly;
 - (iii) measures to ensure adequate fire-fighting capacity on site, including a fire fighting tanker; and
 - (e) detail a communication strategy for notifying the relevant government agencies and potentially affected community in the event of an emergency; and

- (f) address any chemical storage required to operate the LTP and be consistent with the Department of Planning and Environment's Hazardous Industry Planning Advisory Paper No. 1, 'Emergency Planning'.

This plan must be documented in the Landfill EMP (see condition 3 in schedule 7). Prior to the operation of the LTP, the Fire and Emergency Management Plan must be revised and approved by the Secretary.

12. Insert new conditions 25A and 25B immediately after Condition 25 as follows:

Safety Management System

- 25A. A comprehensive Safety Management System, covering all on-site operations and associated transport activities involving hazardous materials. Records from the Safety Management System must be kept on-site and must be available for inspection by the Secretary upon request. The Safety Management System shall be consistent with the Department of Planning and Environment's Hazardous Industry Planning Advisory Paper No. 9, 'Safety Management'.

Chemical Storage

- 25B. The Applicant must store all chemicals, fuels and oils used on-site in accordance with:
- (a) the requirements of all relevant Australian Standards; and
 - (b) the NSW EPA's '*Storing and Handling of Liquids: Environmental Protection – Participants Handbook*' if the chemicals are liquids.

In the event of an inconsistency between the requirements listed from (a) to (b) above, the most stringent requirement must prevail to the extent of the inconsistency.

In Schedule 5: Specific Environmental Conditions – Crisps Creek IMF site

13. Delete Condition 17 and replace with the following:
17. The Proponent shall comply with the operating hours in Table 9 for the site, unless otherwise agreed in writing by the EPA.

Table 9: Operating Hours

Activity	Day	Hours
Construction	Monday - Friday	7 am – 6 pm
	Saturday	7 am – 1 pm
	Sunday & Public Holidays	Nil
Operations	Monday - Saturday	6am – 10 pm
	Sunday, Christmas Day and Good Friday	Nil