



## Appendix B

| *Consolidated  
consents*

**ENVIRONMENTAL PLANNING AND ASSESSMENT ACT 1979**

**DETERMINATION OF A DEVELOPMENT APPLICATION UNDER SECTION 80(1) OF  
THE ENVIRONMENTAL PLANNING AND ASSESSMENT ACT 1979**

I, the Minister for Urban Affairs and Planning, under Section 80(1) of the *Environmental Planning and Assessment Act, 1979* ("the Act") determine the Development Application ("the Application") referred to in Schedule 1 by granting consent to the Application subject to the conditions set out in Schedule 2.

The reason for the imposition of conditions is to minimise any adverse environmental effects of the development, consistent with the objectives of the Act.

Andrew Refshauge MP

**Minister for Urban Affairs and Planning**

Sydney

30 November 2000

File No. Q91/00233

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**SCHEDULE 1**

**Application made by:** Collex Waste Management Pty Ltd ('the Applicant').

**To:** The Minister for Urban Affairs and Planning ("the Minister").

**In respect of:** Lots 5-6 in DP830765, Lots 8-9 in DP534616, Lot 19 in DP827588, Lots 14, 25, 30, 70, 86, 88, 91, and 92 in DP754919, part of the land comprising Lot 10 in DP703260 and part of the land comprising Lot 3 in DP754894.

**For the following:** The Woodlawn Waste Management Facility.

**Development Application:** DA No. 31-02-99 lodged with the Department of Urban Affairs and Planning on 16 February 1999, accompanied by a Environmental Impact Statement prepared by Woodward-Clyde and dated March 1999; EIS supplementary Report prepared by Woodward-Clyde Pty Ltd, dated March 1999; and amended DA and accompanying information prepared by Woodward-Clyde, dated 12 November 1999.

**Determination:**

- 1) To ascertain the date upon which the consent becomes effective, refer to Section 83 of the Act.
- 2) To ascertain the date upon which the consent is liable to lapse, refer to Section 95 of the Act.
- 3) Under section 89A of the Act, the Minister's determination is final and appeal rights under sections 97 and 98 of the Act do not apply.

## **SCHEDULE 2**

### **CONDITIONS OF DEVELOPMENT CONSENT**

#### **ABBREVIATIONS AND INTERPRETATION**

The Act	Environmental Planning and Assessment Act 1979, as amended
The Applicant	Collex Waste Management Pty Ltd
AEMR	Annual Environmental Management Report
BCA	Building Code of Australia
CLC	Community Liaison Committee
Council	Mulwaree Shire Council
DA	Development Application
The Department	The Department of Urban Affairs and Planning
The Director-General	The Director-General of the Department of Urban Affairs and Planning
DLWC	Department of Land and Water Conservation
EIS	Environmental Impact Statement
EMP	Environmental Management Representative
EPA	Environment Protection Authority
EPA Licence	means a licence under the <i>Protection of the Environment Operations Act 1997</i>
EPL	Environment Protection Licence
GTA	General Term of Approval
Leachate	means any liquid released by, or water that has percolated through waste, and that contains dissolved and/or suspended liquids and/or solids and/or gases and includes old fill leachate and new fill infiltrate
L <sub>A10</sub> (15 minute)	is the sound pressure level that is exceeded for 10% of the time when measured over a 15 minute period.
LEMP	an environmental waste management plan prepared in accordance with Section 75 of the <i>Protection of the Environment Operations Act 1997</i>
NPWS.	National Parks and Wildlife Service
PCA	Principal Certifying Authority
Subject Land	The land to which the DA and this consent apply.

#### **INTEGRATED DEVELOPMENT**

Integrated development is development (not being complying development) that, in order for it to be carried out, requires Development Consent and one or more of the approvals

set out in the Act. The proposal is integrated development, as it requires several other approvals, including: the consent of the National Parks and Wildlife Service under section 90 of the National Parks and Wildlife Act 1974; licensing by the Environment Protection Authority under sections 47 and 48 of the Protection of the Environment Operations Act 1997<sup>1</sup>; the approval of the Department of Land and Water Conservation under Part 3A of the Rivers and Foreshores Improvement Act 1948 and section 10 of the Water Act 1912; and the consent of Mulwaree Shire Council with the concurrence of the Roads and Traffic Authority under section 138 of the Roads Act 1993. The general terms of approval of the relevant approval bodies therefore form part of this consent.

## **GENERAL CONDITIONS**

### ***Adherence to Terms of DA and EIS***

1. Development shall be carried out in accordance with:
  - (a) DA No. 31-02-99;
  - (b) the EIS prepared by Woodward-Clyde Pty Ltd, dated February 1999;
  - (c) the EIS Supplementary Report prepared by Woodward-Clyde Pty Ltd, dated March 1999; and
  - (d) the Amended DA and accompanying information prepared by Woodward-Clyde, dated 12 November 1999,

except as modified by the following conditions.

In the event of an inconsistency between this consent and DA No. 31.02.99 (and accompanying EIS and other supporting documents), this consent shall prevail.

*Note: The Department of Mineral Resources (DMR) has advised that, upon granting of Development Consent, it will recommend that the mining lease for the Woodlawn site be amended to require compliance with the conditions of consent.*

### ***Deferred Commencement***

2. In accordance with section 80(3) of the EP&A Act, this consent shall not operate until the Applicant satisfies the Minister that it has been awarded a valid contract for the long-term supply of waste, sourced from Sydney, at a rate of at least 150,000 tonnes per annum.

### ***Duration of The Consent***

3. Approval is granted for 20 years from the date of commencement of landfilling operations, subject to the input rate variations as specified in Condition 4.

*Note: Extension of further landfilling activities beyond 20 years would be subject to further approvals applicable at the time.*

### ***Input Rate Variations***

4. The proposed landfill shall not exceed the annual input rates in Table 1, unless otherwise approved by the Minister. The Minister shall give such approval if the need for additional capacity is demonstrated by an independent public assessment of landfill capacity and demand in the Sydney Region. The assessment shall:

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<sup>1</sup> At the time of DA lodgement, the proposal required licensing by the Environment Protection Authority under the Pollution Control Act 1970 and the Waste Minimisation and Management Act 1995. These requirements have since been superseded by licensing requirements under the Protection of the Environment Operations Act 1997, which commenced on 1 July 1999.



- (a) take into account the status of alternative technologies for putrescible waste management and be undertaken at five-yearly intervals;
- (b) be completed one year before commencement of each five year period, as set out in Table 1, or at any other time at the request of the Applicant, with the first review due four years from the date of operational commencement; and
- (c) be undertaken by an independent person or organisation, to be appointed by the Minister, with the costs to be funded by the Applicant.

**Table 1: Maximum Input Rates**

<b>Years from date of operational commencement</b>	<b>Maximum Input Rate</b>
0-5	400,000 tpa
6-10	360,000 tpa
11-15	325,000 tpa
16-20	290,000 tpa

- 5. In any event, no more than 500,000 tonnes shall be landfilled at the site in any one year.

***Compliance with Requirements of the Director-General and Prescribed Conditions***

- 6. The Applicant shall comply with all reasonable requirements of the Director-General in respect of the implementation of any measures arising from reports submitted in accordance with the conditions of this consent, within such time as the Director-General may agree.
- 7. The Applicant shall comply with all relevant conditions prescribed in Part 7 of the Environmental Planning and Assessment Regulation 1994, as required by Section 80A (11) of the Act.

***Obligation to Prevent and Minimise Harm to the Environment***

- 8. The Applicant shall:
  - (a) take all practicable measures to prevent and minimise harm to the environment as a result of the construction, operation, post closure and, where relevant, the decommissioning of the development; and
  - (b) take all practicable measures to operate the landfill as a bioreactor, to ensure to the maximum extent practicable, the biological decomposition of all organic waste and productive capture of methane.

***Structural Adequacy***

- 9. Detailed plans and specifications relating to the design and construction of all structural elements associated with the proposed development shall be submitted to the Principal Certifying Authority (PCA) prior to the commencement of construction works. Such plans and specifications shall be accompanied by certification provided by a practicing professional structural engineer or an accredited certifier certifying the structural adequacy of the proposed building design and compliance with the Building Code of Australia (BCA).

### ***Verification of Construction***

10. Upon completion of building works and prior to the issue of an occupation certificate, a certificate prepared by a suitably qualified person or a compliance certificate issued by an accredited certifier, is to be submitted to the PCA certifying that the following building components, where relevant, have been completed in accordance with approved plans and specifications:

- (a) footings;
- (b) concrete structures, including ground floor and any subsequent floors, and retaining walls and columns;
- (c) framing and roof structure;
- (d) fire protection coverings to building elements required to comply with the BCA; and
- (e) mechanical ventilation.

The certificate/s shall demonstrate at what stage of construction inspections were undertaken.

### ***Dispute Resolution***

11. In the event that the Applicant, Council, a government authority other than the Department or the PCA cannot agree on the specification or requirements applicable under this consent, the matter shall be referred by either party to the Director-General or, if not resolved, to the Minister, whose determination of the disagreement shall be final and binding on the parties.

## **ENVIRONMENTAL MANAGEMENT**

### ***Environmental Services***

12. The Applicant shall employ or contract suitably qualified environmental services throughout the duration of landfilling/construction and rehabilitation activities. The Applicant shall nominate an Environmental Management Representative/s (EMR/s) as the principle person responsible for overseeing environmental management of the project and supervision of environmental services. The EMR's/EMRs' qualifications, experience and appointment shall be to the satisfaction of the Director-General. The EMR/s shall have the authority to stop work if an adverse impact on the environment has occurred or is likely to occur.

The EMR/s shall:

- (a) be responsible for the preparation or certification of all environmental management plans and procedures;
- (b) be responsible for considering and advising on matters specified in the conditions of this consent and compliance with such matters;
- (c) oversee the receipt of, and response to, complaints about the environmental performance of the project;
- (d) facilitate an induction and training program in environmental awareness and responsibility required under the Environment Protection Licence (EPL), both generally and specific to the Applicant's activities for all persons involved with construction, operation, monitoring and rehabilitation activities at all sites. The training program must be implemented annually from the commencement of the development and evaluated every three years; and

- (e) be present on-site during any critical construction or operational activities as defined in the relevant Landfill Environmental Management Plan (LEMP).

### **Landfill Environmental Management Plan**

13. Prior to the Applicant applying to the EPA for an EPL under the Protection of the Environment Operations Act 1997, the Applicant must prepare a comprehensive Landfill Environmental Management Plan (LEMP) in accordance with the EPA's *Environmental Guidelines: Solid Waste Landfills*. The LEMP shall incorporate all relevant plans and protocols as required by the conditions of this consent.

The LEMP shall accompany the application for an EPL. (EPA GTA)

*Note: The EPA will review the LEMP and may, as a result, attach conditions to the EPL which are not inconsistent with the Development Consent.*

### **Licence Applications**

14. Prior to applying to the EPA for an EPL, the Applicant must be able to demonstrate that all works required to be addressed to ensure the geo-technical stability of the premises have been undertaken in accordance with:

- (a) the recommendations of the report prepared by BFP Consultants P/L, dated 17 December 1998, entitled Woodlawn Landfill – Geo-technical Study; and
- (b) the requirements of the NSW Department of Mineral Resources. (EPA GTA)

15. The Applicant must prepare a post closure landfill rehabilitation management plan (PCLRMP). The PCLRMP must be documented in the LEMP and must address the following:

- (a) closure strategies in the event that landfilling activities conclude prior to filling of the mine void;
- (b) site capping and revegetation in accordance with benchmark technique 28 of the *Environmental Guidelines: Solid Waste Landfills*;
- (c) post closure environmental monitoring;
- (d) post closure management of surface water in the event that the void is not filled with waste.

*Note: The creation of a "crater lake" as proposed in the DA is not approved as a satisfactory strategy for post-closure management.*

- (e) post closure management of Evaporation Dam No 3 (ED3);
- (f) post closure leachate management, including the management of the bioreactor processes;
- (g) post closure landfill gas management;
- (h) post closure maintenance; and
- (i) the estimated costing for these works must be provided and should be based on a nominal period of at least 50 years after the landfill ceases to accept waste. The actual duration of this period will be determined from actual monitoring data at the time. (EPA GTA)

*Notes: An application under sections 53 and 87 of the Protection of the Environment Operations Act 1997 for a supervisory licence must be made at the same time as the application for an EPL.*

*The Applicant must charge for the disposal of putrescible waste at the premises in accordance with the directions of the public authority that holds the supervisory licence in respect of the waste facility.*

*The disposal of waste at the premises is subject to section 88 of the Protection of the Environment Operations Act 1997 and clause 18(1)(d) of the Protection of the Environment Operations (Waste) Regulation 1996.*

### **Community Liaison Committee**

16. Prior to the commencement of construction, the Applicant shall establish a Community Liaison Committee (CLC) comprising representatives of the Applicant, the local community, Council and Supervisory Licensee. Representatives of relevant government agencies may be invited to attend meetings of the Committee as required.

The Chairperson and procedures for the Committee including frequency of meetings shall be determined by the Committee.

### **Annual Environmental Management Report**

17. In order to facilitate the integration of the environmental management of the subject land and the Woodlawn mine site, the Applicant shall liaise with the holder of the Woodlawn mining lease in relation to the formulation and review of the Annual Environmental Management Report (AEMR) for the mine. The AEMR shall comply with the requirements of the Director-General of the Department of Mineral Resources and be subject to review by all relevant government agencies.

### **Conditions Compliance Reports**

18. The Applicant shall submit to the Director-General, the EPA, DLWC and Council Conditions Compliance Reports as follows:
- (a) at least one month prior to the commencement of construction works for the purposes of landfilling, or within such period as otherwise agreed to by the Director-General;
  - (b) at least one month prior to the commencement of construction works for the purposes of the intermodal transfer facility, or within such period as otherwise agreed to by the Director-General;
  - (c) every two years following the date of commencement of construction for the purposes of landfilling activity, or within such period as otherwise agreed to by the Director-General.

*Note: the requirements of (a) and (b) above may be satisfied by the same report if appropriate.*

### **Independent Environmental Audits**

19. Every three years following the date of this consent, or at periods otherwise agreed to by the Director-General, and until such time as agreed to by the Director-General, the Applicant shall arrange for an independent audit of the environmental performance of the development. The audits shall:
- (a) be conducted pursuant to ISO 14010 – Guidelines and General Principles for Environmental Auditing, ISO 14011 – Procedures for Environmental Monitoring and any specifications of the Director-General;
  - (b) be conducted by a suitably qualified independent person approved by the Director-General;
  - (c) assess compliance with the requirements of this consent;
  - (d) assess the implementation of the LEMPs and review the effectiveness of the environmental management of the development; and

- (e) be carried out at the Applicants' expense.

The audits shall be submitted to the Director-General, the EPA, DLWC, Council and the Community Liaison Committee.

The Applicants shall comply with all reasonable requirements of the Director-General in respect of any measures arising from or recommended by the audits and within such time as agreed to be the Director-General.

## **SITE REHABILITATION**

### ***Whole of Site Rehabilitation***

- 20. The filling of the Woodlawn mine void with waste and the final rehabilitation of the land subject to the DA shall be undertaken in a manner which is complementary with the rehabilitation of the Woodlawn mine site. Details of integrated rehabilitation shall be provided in the Rehabilitation Management Plan prepared in accordance with Condition 22.
- 21. Activities associated with landfilling must not impede or limit the rehabilitation works on any part of the Woodlawn Mine site.

### ***Rehabilitation Management Plan***

- 22. The Applicant shall prepare and implement a Rehabilitation Management Plan (RMP) which addresses areas designated for revegetation and rehabilitation as well as areas deemed not to require such treatment. The RMP shall address, but not necessarily be limited to the following matters:
  - (a) clear identification of proposed the new rehabilitation works to be undertaken by the Applicant, details of the Woodlawn Mine site rehabilitation works being undertaken by the mine leaseholder, and a clear definition of the respective obligations of the parties;
  - (b) an outline of financial arrangements for site rehabilitation works proposed in the plan;
  - (c) the rehabilitation standards to be adopted;
  - (d) a rehabilitation schedule (to be reviewed on a regular basis);
  - (e) a post-establishment maintenance and monitoring program for rehabilitated areas;
  - (f) procedures for the removal of all derelict buildings and infrastructure;
  - (g) closure strategies in the event that landfilling activities conclude prior to the capacity of the mine void being filled; and
  - (h) integration of rehabilitation works with the rehabilitation of the Woodlawn mine site.

The RMP shall be included in the LEMP.

- 23. The Applicant must obtain approval from the End of Mine Life Steering Committee and the EPA to disturb, obtain or use materials from the Woodlawn Mine site for the construction, operation and rehabilitation of the landfill, intermodal facility, haul roads and any other infrastructure at the premises.
- 24. The Applicant shall liaise with the holder of the Woodlawn mining lease in the preparation of a Mining Operations Plan (MOP) in accordance with the requirements of the Department of Mineral Resources



### **Financial Assurance for integration of whole of mine site rehabilitation**

*Notes: A financial assurance will be maintained by the mine lease holder and held by the Department of Mineral Resources for the duration of the consent. The financial security will relate to the Applicant's obligations under the conditions of this consent for the acquisition, compensation, remedial works and any requirements for the integration of landfilling activities with any existing mine rehabilitation obligations.*

*The amount and structure of the financial security will be agreed to the satisfaction of the Director-General of the Department of Mineral Resources. Evidence of the security deposit will be provided in each AEMR, whereby the value of the security deposit can be adjusted for rehabilitation works completed and the remaining rehabilitation liability.*

### **EPA Financial Assurance**

25. The Applicant shall provide to the EPA financial assurance commensurate with the ongoing environmental management and rehabilitation responsibilities for the landfill and associated activities. The financial assurance shall consist of:

- (a) an unconditional and irrevocable bank guarantee, or other form of financial assurance acceptable to the EPA. The financial assurance is to be adjusted annually so that it keeps pace with inflation for so long as the EPA requires it to remain in place. The amount of the assurance will be determined by an independent review of the costings applicable to activities identified in the LEMP and Conditions 55 and 159; and
- (b) an accumulating fund generated by monies set aside annually on deposit, or other form of financial assurance acceptable to the EPA which will have to be increased in a similar way, in respect of post closure works and responsibilities. The initial and ongoing annual deposit into this fund will be determined by an independent expert review of the costings applicable to activities identified in Condition 15.

The financial assurance shall be maintained during the operation of the facility and thereafter until such time as the EPA notifies the Applicant in writing that it is satisfied that the premises have been appropriately rehabilitated and are environmentally secure.

Written approval must be obtained from the EPA for any changes to the financial assurance detailed in this condition.

*Note: The EPA will require the lodgment of a nominal financial assurance prior to the commencement of landfilling activities. This financial assurance can be amended in line with the environmental risk associated with the premises and independent expert review of costings.*

### **WASTE SOURCES AND TYPES**

26. All waste shall be sourced from the Sydney region. All waste received at the waste management facility shall be transported by rail to the intermodal facility.

27. The only wastes that can be disposed of at the premises are as follows:

- (a) inert waste and solid waste defined in Schedule 1 of the Protection of the Environment Operations Act 1997 or waste that is assessed and classified as inert or solid waste following the technical assessment procedure outlined in Technical Appendix 1 of the Waste Guidelines;
- (b) asbestos waste (including asbestos waste in bonded matrix and asbestos fibre and dust waste resulting from the removal of thermal or acoustic insulating materials or from processes involving asbestos material, and dust from

ventilation collection systems) disposed of in accordance with clause 29 (5) of the Protection of the Environment Operation (Waste) Regulation 1996;

- (c) tyres in accordance with the EPA's tyre disposal specification; and
- (d) other types of waste as expressly approved by the EPA. *(EPA GTA)*

## **WASTE MANAGEMENT PROCEDURES**

28. There shall be no storage of sludges nor overnight storage of containerised waste, on the intermodal facility site. This condition may be varied with the written approval of the EPA if it is required by police; and /or because the operation, personnel or equipment are endangered. *(EPA GTA)*

### ***Waste Transportation***

29. All containers must be designed, constructed and maintained to prevent the emission of offensive odour and be water tight to prevent the leakage of leachate from waste containers during transport and handling activities. *(EPA GTA)*
30. All pressure relief valves on the containers must be designed to meet the environmental requirements of condition 29. *(EPA GTA)*
31. A Quality Assurance Program must be developed and implemented to ensure compliance with Condition 29. The program must include but need not necessarily be limited to the following:
- (a) Container integrity;
  - (b) Integrity and performance of rubber seals;
  - (c) Performance of mechanisms to filter and remove odour where required including cleaning and performance testing; and
  - (d) Container cleaning. *(EPA GTA)*

### **Spillage Response**

32. A protocol must be developed and implemented to manage incidents involving spillage of waste. The protocol must include but should not necessarily be limited to procedures identifying immediate cleaning of the site, disinfection and reporting protocols. *(EPA GTA)*

### ***Control of Incoming Wastes***

33. The Applicant must develop procedures to screen deliveries of waste to ensure compliance with Condition 27. The procedure must be documented in the LEMP. *(EPA GTA)*
34. The Applicant shall use its best endeavours to ensure that all waste received at the intermodal facility is containerised.

## **OPERATIONAL STAGING AND LANDFILL MANAGEMENT**

35. The Applicant shall prepare a landfilling schedule consistent with the concept detailed in figure 4.10 in the EIS. Details of the landfill schedule and shall be provided in the LEMP.

### ***Cover Material***

36. Cover material must be virgin excavated natural material, unless otherwise approved in writing by the EPA. *(EPA GTA)*

*Note: The Applicant is encouraged to identify alternative daily cover materials and examine the feasibility of adopting such materials so as to minimise impacts of utilising virgin excavated natural material.*

37. Cover material must be of a quality that will not inhibit the biological decomposition of the landfilled waste. (EPA GTA)
38. Cover material must be applied to a minimum depth of 15 centimetres over all exposed landfilled waste, prior to ceasing operations at the end of each day, unless otherwise approved in writing by the EPA. (EPA GTA)

*Note: This condition does not exclude removal of daily cover at the beginning of each day to provide for the efficient operation of the bioreactor and to avoid perching of leachate within the landfilled waste mass.*

39. Cover material must be applied to a depth of 30 centimetres over surfaces of the landfilled waste which are exposed for more than 90 days, unless otherwise approved in writing by the EPA. (EPA GTA)

*Note: This condition does not exclude removal of cover prior to recommencement of active landfilling to provide for the efficient operation of the bioreactor and to avoid perching of leachate within the landfilled waste mass.*

40. At least two weeks supply of cover material must be available at the premises under all weather conditions, unless otherwise approved in writing by the EPA. (EPA GTA)

*Note: The environmental management objectives of cover material including limiting run-on and infiltration of water, controlling and minimising the risk of fire, minimising the emission of landfill gas, suppressing odour, reducing fly propagation and rodent attraction and decreasing litter generation.*

### **Landfill Gas**

41. The Applicant shall ensure to the maximum practical extent the quantity of landfill gas that is collected and treated.
42. The Applicant must ensure that any flare, power station or other proposed landfill gas treatment or beneficial re-use system is designed to provide a destruction efficiency of hydrocarbons, organic air toxics and odours of not less than 98%. (EPA GTA)

*Note: Emissions of pollutants must comply with the standards of concentrations prescribed in the Clean Air (Plant and Equipment) Regulation 1997.*

43. The flare system must be designed, installed and operated so that hydrocarbons, organic air toxics and odours are destroyed in accordance with Condition 42. The system must be provided with automatic ignition system and automatic shut-off gas valve. Scrubbers or other suitable treatment must be provided if it is required to remove hydrogen sulfide in order to comply with Condition 42.

The system must be installed progressively during the operation of the landfill. (EPA GTA)

44. Any landfill gas condensate must be collected and returned to the leachate recycling system. (EPA GTA)
45. The landfill gas extraction and utilisation system must be designed and installed to withstand forces created by the weight and settlement of waste in the landfill.
46. All pipe work carrying landfill gas adjacent to the haul road must be designed and installed so it is protected from damage as a result of haulage activities. (EPA GTA)

## **WATER QUALITY AND MANAGEMENT**

### ***Waste Management Facility Site***

47. The premises and the activities carried out therein must not pollute surface water or groundwater. *(EPA GTA)*

### **Groundwater and Leachate Management**

48. The mine void must be managed to ensure the groundwater gradient directs groundwater flows towards the mine void, unless otherwise approved in writing by the EPA. *(EPA GTA)*
49. Maintenance of the groundwater gradient post closure of active landfill operations (including a period of after-care) must ensure that impact of any degraded residue from the landfill on groundwater represents no threat to human health or the environment.

*Note: The height of the water saturation level in the waste will be the primary means of ensuring that this condition is complied with.*

50. A leachate collection/storage/recirculation/treatment system must be designed, installed and operated to:
- (a) accept other waste-waters and contaminated storm-waters generated as a result of the operation of the facility;
  - (b) efficiently operate, notwithstanding the settlement of the waste;
  - (c) ensure that all liquid (including rainwater, surface water, groundwater and leachate) introduced into the waste is monitored to determine its chemical composition and quantity;
  - (d) ensure that liquid is not deliberately stored in the landfilled waste, unless it is necessary for the efficient decomposition of the landfilled waste.
  - (e) ensure that leachate can be recirculated within the biologically active zones of the landfilled waste; and
  - (f) comply with Conditions 48 and 8(b).

Details of this system must be documented in the LEMP. *(EPA GTA)*

51. A barrier system must be designed and installed on the surfaces identified in condition 52 to limit the quantity of groundwater flowing into the mine void and to contain leachate over the period of time that the landfilled waste poses a potential environmental risk. The system must be documented in the LEMP. *(EPA GTA)*
52. The Applicant shall install the barrier system on the following surfaces of the mine void wherever these surfaces do not meet the performance requirements of Condition 53:
- (a) the base and the top elevation of the mine void; and
  - (b) the localised joints, fracture zones and adits/portals.
53. The barrier system must at least achieve the performance of a 900 mm thick re-compacted clay liner with an in-situ coefficient of permeability of less than  $10^{-9}$  metres per second.
54. A Construction Quality Assurance Plan (CQAP) for the barrier system shall be prepared and included in the LEMP.
55. The Applicant shall prepare a Leachate Contingency Management Plan (LCMP) that addresses, but not necessarily be limited to the following matters:

- (a) the removal of leachate from the waste and its treatment to remove any metals or compounds at concentrations which may inhibit the biological processes of the bioreactor landfill, prior to discharging the leachate back into the landfilled waste;
  - (b) the storage of leachate external to the landfilled waste in the mine void;
  - (c) method/s for removing leachate from the waste and disposing of it to ensure effective operation of the bioreactor landfill and to ensure that the groundwater gradient directs groundwater flows into the mine void; and
  - (d) an estimate of the full costs for implementing each aspect of this plan. (EPA GTA)
56. The Applicant must not import water or other liquids into the mine void, unless otherwise approved by the EPA, except for first flush waters collected at the Intermodal Facility site and waters contained in ED3. (EPA GTA)
57. The Applicant shall develop a plan (known as bioreactor water management plan) which addresses the treatment of water, prior to any water being added (other than by direct rainfall) to the landfilled waste. This plan shall be included in the LEMP.

*Note: The goals of this plan are to ensure that water which is of a low pH and contains heavy metals and other inorganic substances does not inhibit the biological degradation of the landfilled waste and that the groundwater gradient direction is maintained into the void.*

#### Surface Water Management

58. There must be no discharge of waters from the area subject to the Development Application, unless more than 210mm of rain falls within a 72 hour time period (1 in 100 year ARI of 72 hours duration). (EPA GTA)
59. At the commencement of waste being received into the mine void the volume of water stored in ED3 shall be no greater than 40 ML.
60. The Applicant shall install drainage so that the West Ridge Catchment shall not drain into the mine void.
61. Contaminated water shall only be applied for dust suppression in the mine void, and in any areas around the perimeter of the void where any contaminated water will drain back into the void.
62. The evaporation of water by spraying shall not result in the drifting of the sprayed liquid from the area subject to the DA and also shall not cause any adverse impact to public health. The proposed method for the spray evaporation of water shall be documented in the LEMP.
63. ED3 shall not receive water stored in the Waste Rock Dam.
64. Stormwater in the mine void must only be discharged into ED3, or otherwise used for operational purposes within the landfill, as approved in writing by the EPA. (EPA GTA)
65. Stormwater collected in the mine void may only be transferred into ED3 provided that:
- (a) The Applicant can always comply with condition 58;
  - (b) the concentration of ammonia in the stormwater to be transferred does not exceed 0.03 mg/L and the concentration of total organic carbon in the stormwater does not exceed 1 mg/L; and
  - (c) the stormwater to be transferred contains no leachate, unless otherwise approved in writing by the EPA. (EPA GTA)



66. The Applicant must design and implement a Stormwater Management Scheme for the premises demonstrating compliance with Conditions 47, 48, 58, 63, 64, 65, and 8(b). This plan must be documented in the LEMP. (EPA GTA)

*Note: The scheme will need to consider the method of the removal of excessive quantities of rainwater that falls in the mine void.*

67. Vehicles leaving the area subject to the DA shall not track materials to external surfaces.

Details of the equipment or facilities must be specified in the LEMP (EPA GTA)

68. Containers used for transporting waste must only be washed at the container wash facility as frequently as is necessary to minimise environmental impacts from the containers. The container wash down facility must be designed, installed and operated with the aim to collect, treat and dispose of any wash down waters to the leachate collection system. Any collected solids must be returned to the active tipping face. The container wash down facility must be documented in the LEMP. (EPA GTA)
69. Impervious bunds must be constructed around all fuel, oil and chemical storage areas and the bund volume must be large enough to contain 110 per cent of the volume held in the largest container. The bund must be designed and installed in accordance with the requirements of the EPA Environment Protection Manual Technical Bulletin *Bunding and Spill Management*. (EPA GTA)

#### ED3 – Management

70. The Applicant must prepare a management plan for ED3 to ensure that:
- (a) the dam is maintained to prevent the leakage of stored acid mine drainage waters in order to protect groundwater and surface water;
  - (b) adequate capacity is retained in ED3 to meet the environmental performance requirements in condition 58
  - (c) measures are identified to maintain adequate capacity within a suitable time period after receiving water from a rainfall event;
  - (d) there is an emergency plan for the management of water in excess of the capacity of ED3;
  - (e) the sources of water that are collected or received in ED3 are identified; and
  - (f) the quantity of water (in cubic metres per hour) from each source that reports to ED3 is monitored and compared in graphical format with rainfall data.

The plan must be documented in the LEMP.

#### Waste-water Management

71. The sewage management system must be designed, installed and operated to meet the following criteria:
- (a) **Prevention of Public Health Risk.** Unacceptable public health risks must not occur resulting from human contact with the waste-water or flows discharged from the waste-water management system. Indicator faecal coliforms must be reduced to acceptable levels by an acceptable disinfection method determined in consultation with the EPA and NSW Department of Health. Consultation must be undertaken with NSW Health on the performance of the system.
  - (b) **Protection of Lands.** The application of waste-water to land must not result in the deterioration of the quality of the land through soil structure degradation, salinisation, waterlogging, chemical contamination or soil erosion.

- (c) **Protection of Surface Waters.** Surface waters must not become contaminated by any flows discharged from the waste-water management system including waste-water, rainfall runoff, contaminated subsurface runoff or contaminated groundwater.
  - (d) **Protection of Groundwaters.** Underground water resources must not become contaminated by either the waste-water, or any flows discharged from the waste-water management system.
  - (e) **Community Amenity.** Unreasonable interference and nuisance to the public, due to odour, dust, insects, and noise above existing background levels and arising from the operation of the waste-water management system must be avoided.
  - (f) **Resource Utilisation.** The useful resources of waste-water, including nutrients, organic matter and water must be identified and utilised to the maximum extent possible within the bounds posed by the other environmental and health performance criteria referred to in (a) to (e) above. *(EPA GTA)*
72. Waste-water must only be applied to utilisation areas in conformance with Condition 71. *(EPA GTA)*
73. Spray from waste-water application must not drift beyond the boundary of the waste-water utilisation area to which it is applied. *(EPA GTA)*
- Note: The EPA may include a buffer area for spray as part of a waste-water utilisation area.*
74. Waste-water utilisation areas must effectively utilise the waste-water applied to those areas. This includes the use for pasture or crop production, as well as ensuring the soil is able to absorb the nutrients, salts, hydraulic load and organic materials in the solids or liquids. Monitoring of land and receiving waters to determine the impact of waste-water application may be required by the EPA. *(EPA GTA)*

### ***Intermodal Facility Site***

75. The Applicant shall prepare and implement a Stormwater Management Scheme for the premises in accordance with the environment protection licence. The Scheme shall include measures to mitigate the impacts of stormwater run-off from and within the premises following the completion of construction activities and meet Condition 76 *(EPA GTA)*
76. Container handling, transfer and storage areas including any hardstand areas must be paved and sealed and be provided with a first flush stormwater management system designed to capture 15mm of stormwater for each square meter of catchment area. The paved and sealed areas including first flush system must also extend to include any rail unloading areas, stormwater detention pond, oil/water separator and container loading areas. *(EPA GTA)*
77. There must be no discharge of contaminated stormwater from the premises under dry weather conditions or storm event(s) of less than 1:100 year, 24 hour duration, average recurrence interval. *(EPA GTA)*
78. All areas that involve the handling of containerised waste including container transfer and handling areas, clean container storage areas and internal roadways must be sealed. *(EPA GTA)*

### **Waste Water Management**

79. Contaminated stormwater and any sludges collected at the Crisps Creek intermodal facility must be disposed of at the landfill site. *(EPA GTA)*

80. There must be no vehicle or container wash down at the premises. (EPA GTA)
81. The on-site sewerage waste water management system must be designed installed and operated in a manner consistent with the guidelines Environment and Health Protection for On-site Sewage Management for Single Households. (EPA GTA)

***Rivers and Foreshore Improvement Act 1948 – Part 3A Permit (DLWC GTAs)***

*Note: A permit under Part 3A of the Rivers and Foreshores Improvement Act 1948 is required to carry out bridge construction, stormwater discharge works and stream bank stabilisation within 40 m of the top of the bank of the Mulwaree River at Tarago, being works associated with the establishment of the intermodal facility. A Part 3A Permit is not required for works at the mine site.*

**General**

82. If any work is being carried out in such a manner that it may damage or detrimentally affect the stream, or damage or interfere in any way with any work, the operation on that section of the stream shall cease immediately upon the oral or written direction of the officer.
83. The Applicant may request in writing any reasons for any direction to cease operations which must be provided within 24 hours of such a request.
84. If the permit conditions have been breached, the permit holder shall restore the site to the satisfaction of the Department. If the necessary works are not completed then the permit holder shall pay a fee prescribed by the Department for the initial breach inspection and all subsequent breach inspections.
85. Operations shall be conducted in such a manner as not to cause damage or increase the erosion of adjacent stream banks. The permit holder shall carry out any reasonable instructions given by DLWC with a view to preventing damage to the banks.
86. Any vegetation or other material removed from the area of operations shall be disposed of to an appropriate site where the debris cannot be swept back into the river during a flood.

**Conditions Specific to the DA**

87. Operations shall be conducted in such a manner that is in accordance with the permit as not to cause damage or increase the erosion of adjacent stream banks. The permit holder shall carry out any reasonable instructions given by DLWC with a view to preventing damage to the banks.
88. Prior to the commencement of construction, the Applicant shall submit for the approval of DLWC a Soil and Water Management Plan. The Plan shall be prepared by a suitably qualified person and shall cover all works in and near the stream, staging and maintenance requirements. The Plan shall meet the requirements outlined in the NSW Department of Housing's publications (1998) *Managing Urban Stormwater: Soils and Construction* and *Managing Urban Stormwater: Treatment Techniques*.
89. The Applicant shall establish, to the satisfaction of DLWC, a riparian zone on the intermodal facility side of the Mulwaree River for the length of the intermodal facility and any associated works. The riparian zone shall be at least 40 metre in width (measured horizontally from the top of the bank) and consist of local native plant species but shall exclude bridge approaches, bridge, access roads and associated infrastructure in accordance with the Intermodal Construction Works Plan, and Soil and Water Management Plan

90. No exotic trees are to be planted within the stream or within 40 metres from the top of the bank of the stream.
91. Prior to commencing construction works the Applicant shall prepare to the satisfaction of DLWC a "Works Plan" to include Stream Rehabilitation and Vegetation Management. The Plan shall describe the proposed rehabilitation of the stream wherever disturbed, methods to stabilise the bed and banks of the stream, vegetation to be retained, additional plantings of local native vegetation, vegetation maintenance and performance criteria
92. The Applicant shall ensure that the design of the bridge over the Mulwaree River is sensitive to the corridor functions (including current and future functions) of the river and piered approaches or equivalent are to be incorporated into the design.
93. Drainage lines to the Mulwaree River are to be in accordance with the requirements of DLWC and designs included in the Intermodal Facility Works Plan are to be approved by DLWC prior to the commencement of construction works

## **NOISE**

### ***Hours of Construction and Operation***

#### Construction

94. All construction work at the waste management facility and intermodal facility site that creates audible noise at residential premises must only be conducted between 7:00 am to 6:00 pm on Mondays to Fridays and between the hours of 8:00 am to 1:00 pm on Saturdays. There shall be no construction activities on Sundays or public holidays. *(EPA GTA)*
95. The delivery of material outside the hours of operation permitted by Condition 94 may take place if that delivery is required by police or other authorities for safety reasons; and/or because the operation, personnel or equipment are endangered. In such circumstances, prior notification is to be provided to the EPA and affected residents as soon as possible, or within a reasonable period in the case of an emergency. *(EPA GTA)*
96. The hours of construction specified in Condition 94 may be varied with the written consent of the EPA if the EPA is satisfied that the amenity of the residents in the locality will not be adversely affected. *(EPA GTA)*

#### Operation

97. All operational activities at the waste management landfill site may only be conducted between the hours of 6:00am and 7:00pm on Mondays to Saturdays and at the intermodal facility site including road haulage, may only be conducted between the hours of 7:00am to 6:00pm on Mondays to Saturdays other than train operations which may be conducted from 6:00am to 6:00pm. There must be no activities on Sundays, Good Friday or Christmas Day (Commission of Inquiry Report, January 2000). *(EPA GTA)*
98. The hours of operation specified in Condition 97 may be varied with the written consent of the EPA if the EPA is satisfied that the amenity of the residents in the locality will not be adversely affected. *(EPA GTA)*

### ***Noise Limits***

#### Waste Management Facility Site

99. Noise from the premises must not exceed an  $L_{A10}$  (15 minute) noise emission criterion of 35 dB(A)  $L_{A10}$  (15 minute) at the most affected residential receiver. *(EPA GTA)*

*Note: Noise measurement*

*For the purpose of noise measures required for this condition, the  $L_{A10}$  noise level must be measured or computed at the most affected residential receiver over a period of 15 minutes using "FAST" response on the sound level meter.*

*For the purpose of the noise criteria for this condition, 5dB(A) must be added to the measured level if the noise is substantially tonal or impulsive in character. Measurement locations are:*

- 1 metre from the facade of the residence for night time (10 pm to 7 am) assessment;
- at the residential boundary or 30 metres from the residence (rural situations) where boundary is more than 30 metres from residence for day time (7 am to 10 pm) assessment.

*For the purpose of noise measurements required for this condition the noise emission limits identified apply for prevailing meteorological conditions, winds up to 3m/s.*

100. The noise emission limits identified in Condition 99 apply for prevailing meteorological conditions, except under conditions of temperature inversions. Noise impacts that may be enhanced by temperature inversions must be addressed by:
- (a) documenting noise complaints received to identify any patterns of temperature inversions or increased level of impacts from temperature inversions;
  - (b) where levels of noise complaints indicate a higher level of impact then actions to quantify and ameliorate any enhanced impacts under conditions of temperature inversions should be developed and implemented. (EPA GTA)

Intermodal Facility Site

101. Except as provided in Condition 102, noise from the premises must not exceed an  $L_{A10}$  (15 minute) noise emission criterion of 35 dB(A) at the most affected residential receiver. (EPA GTA)
102. Noise emissions from freight trains entering and leaving the premises must not exceed the noise limit of 45 dB(A)  $L_{A10}$  (15 minutes) prior to 7am and 50 dB(A)  $L_{A10}$  (15 minutes) after 7am. These limits apply only where there are no more than two freight trains entering and leaving the premises per day, otherwise the limit in condition 101 applies. (EPA GTA)
103. Noise from the premises is to be measured at the most affected residential receiver to determine compliance with Conditions 101 and 102. (EPA GTA)

*Notes: Noise measurement*

*For the purpose of noise measures required for these conditions, the  $L_{A10}$  noise level must be measured or computed at the most affected residential receiver using "FAST" response on the sound level meter over a period of:*

- 15 minutes for condition 101; or
- 15 minutes (duration of train entering and/or leaving site) for condition 102. (to comply with condition 102)

*For the purpose of the noise criteria for conditions 101 and 102, 5dBA must be added to the measured level if the noise is substantially tonal or impulsive in character. Measurement locations are:*

- one metre from the facade of the residence for night time (10 pm to 7 am) assessment;
- at the residential boundary or 30 metres from the residence (rural situations) where boundary is more than 30 metres from residence for day time (7 am to 10 pm) assessment.

*For the purpose of noise measurements required for this condition the noise emission limit identified apply for prevailing meteorological conditions, winds up to 3m/s.*



104. The noise emission limits identified in conditions 101 and 102 apply for prevailing meteorological conditions, except under conditions of temperature inversions. Noise impacts that may be enhanced by temperature inversions must be addressed by:
- (a) documenting noise complaints received to identify any higher level of impacts or patterns of temperature inversions; and
  - (b) where levels of noise complaints indicate a higher level of impact then actions to quantify and ameliorate any enhanced impacts under conditions of temperature inversions should be developed and implemented. (*EPA GTA*)

### **Noise Management**

105. The Applicant shall prepare and implement a Road Traffic Noise Management Protocol. The Applicant shall aim to meet the noise criteria set out in the EPA's *Environmental Guidelines for Road Traffic Noise*. The Protocol shall include, but not necessarily be limited to details about:
- (a) scheduling movements outside critical time periods (for example, 6:00am to 7:00am);
  - (b) more stringent limits for noise emission from vehicles (eg. using specially designed "quiet" trucks and/or trucks required to use air bag suspension);
  - (c) driver education;
  - (d) limiting usage of exhaust brakes;
  - (e) type of road surface;
  - (f) in consultation with Mulwaree Shire Council exploring opportunities to reduce speed limits for trucks;
  - (g) regular maintenance of road surface;
  - (h) ongoing community liaison to monitoring complaints; and
  - (i) phasing in the increased road use; and
  - (j) options for overnight parking of haulage trucks.
106. The Applicant, with input from the rail service provider, shall prepare and implement an Operational Noise Management Protocol for the Intermodal facility. The Protocol shall include, but not necessarily be limited to details about:
- (a) the incorporation of all reasonable and feasible noise mitigation methods for trains entering the site from the main line, shunting, rail movements on site, container movements, and truck movements;
  - (b) scheduling of train movements outside critical time periods;
  - (c) using the quietest trains possible;
  - (d) employee education;
  - (e) using quiet couplings for trains
  - (f) using quiet forklifts;
  - (g) regular maintenance of rail track, roads, hard stand areas, equipment;
  - (h) ongoing community liaison to monitoring complaints (eg. complaints line); and
  - (i) negotiated agreements for noise complaints if noise issues become unresolvable.

107. A Construction Noise Management Protocol must be prepared and submitted with the LEMP and implemented by the Applicant. The Protocol must include but is not necessarily limited to details about:

- (a) compliance standards;
- (b) community consultation;
- (c) complaints handling monitoring/system;
- (d) site contact person to follow up complaints;
- (e) mitigation measures;
- (f) the design and operation of the proposed mitigation methods demonstrating best practice;
- (g) construction times;
- (h) contingency measures where noise complaints are received; and
- (i) monitoring methods and programs.

## **NOISE IMPACTS**

### ***Consultation with Pylara Pty Ltd***

108. In the event that Pylara Pty Ltd considers that road traffic noise (relating to the subject development) at any dwelling on its property is in excess of relevant noise criteria set out in this consent, the Applicant shall, upon a written request from Pylara:

- (a) undertake direct consultation with Pylara Pty Ltd on the issues raised;
- (b) make arrangements for and fund an independent noise investigation to quantify noise levels and sources; and
- (c) if adverse impacts are identified, modify where practicable road transport operations in order to mitigate such impacts.

### ***Land Acquisition***

109. Within six months of receipt of a written request from Pylara Pty Ltd (ACN 000 077 672), the Applicant shall purchase the whole of the property known as "Pylara", via Tarago. The request may be made at any time after this approval, despite any other conditions. The purchase, including acquisition price, shall be on the terms agreed between the Applicant and Pylara Pty Ltd. The acquisition price shall be fair and reasonable, shall take into account all relevant matters, and shall, at least, include payment for :

- (a) a sum not less than the current market value of Pylara Pty Ltd's interest in Pylara at the date of this consent, having regard to:
  - (i) the existing use and permissible use of the land in accordance with the applicable planning instruments at the date of the written request; and
  - (ii) the presence of improvements at Pylara and/or any Council approved building or structure which although substantially commenced at the date of request is completed subsequent to that date; and
  - (iii) as if Pylara was unaffected by the Applicant's Development Proposal.

- (b) reasonable compensation to Pylara Pty Ltd for disturbance allowance and relocation costs within the Mulwaree Shire, or within such other location as may be determined by the Director-General in exceptional circumstances; and
  - (c) Pylara Pty Ltd's reasonable costs for obtaining legal advice and expert witnesses for the purposes of establishing the acquisition price of Pylara and the terms upon which Pylara Pty Ltd is seeking for it to be acquired.
110. In the event that the Applicant and Pylara Pty Ltd cannot agree within three months upon the acquisition price of Pylara and/or the terms upon which it is to be acquired under the terms of this consent, then:
- (a) either party may refer the matter to the Director-General, who shall request the President of the Australian Property Institute to appoint a qualified independent valuer or Fellow of the Institute, who shall determine, *after consideration of any submissions from the owner's and the Applicant, a fair and reasonable* acquisition, price for Pylara as described in sub-clause (a) and/or terms upon which it is to be acquired;
  - (b) in the event of a dispute regarding outstanding matters that cannot be resolved, the independent valuer shall refer the matter to the Director-General, recommending the appointment of a qualified panel. The Director-General, if satisfied that there is a need for a qualified panel, shall arrange for the constitution of the panel. The panel shall consist of:
    - (i) the appointed independent valuer,
    - (ii) the Director-General or nominee, and
    - (iii) the president of the Law Society of NSW or nominee.
  - (c) The qualified panel shall advise the independent valuer on the outstanding matters that the independent valuer refers for it's consideration, following which the independent valuer shall determine a fair and reasonable acquisition price as described in condition 109 and/or the terms upon which Pylara is to be acquired.
111. The Applicant shall bear the costs of any valuation or survey assessment requested by the independent valuer, panel or the Director-General.
112. The Applicant shall, within fourteen days of receipt of a determination by the independent valuer, offer in writing to Pylara Pty Ltd to acquire the relevant land at a price no less than the said acquisition price as determined, and upon any terms set out by the independent valuer.

## **AIR QUALITY**

### ***Odour***

#### **Waste Management Facility Site**

113. There shall be no offensive odour emitted from the premises, in accordance with Section 129 of the Protection of the Environment Act 1997, nor emissions to the atmosphere from the landfill that may adversely affect the health or amenity of the community. (*EPA GTA*)
114. A meteorological station shall be installed and operated on the landfill site in accordance with the following Australian Standards:
- (a) AS 2922-1987 Ambient air – Guide for the siting of sampling units; and

- (b) AS 2923-1987 Ambient air – Guide for measurement of horizontal wind for air quality applications.

The meteorological station shall measure and electronically log wind speed, wind direction, ambient temperature, sigma theta (standard deviation of the horizontal wind direction fluctuation), solar radiation. All parameters must be logged at 15 minute intervals to provide 1-hour average values and the station must be able to provide instantaneous wind speed and direction to assist in investigation of complaints.

The meteorological station shall also measure rainfall and evaporation. *(EPA GTA)*

#### Intermodal Facility Site

115. There shall be no offensive odour emitted from the premises, in accordance with Section 129 of the Protection of the Environment Act 1997. *(EPA GTA)*

#### **Dust**

##### Waste Management Facility Site

116. Activities occurring on the waste management facility site during the construction and operational phases must be carried out in a manner that will minimise emissions of dust from the premises. *(EPA GTA)*
117. The Applicant must take all practical steps to manage dust emissions during the construction and operational phase of the waste management facility to minimise off-site impacts of total suspended particulates, lead and dust deposition. *(EPA GTA)*
118. The LEMP must detail a system to prevent and suppress all dust emissions to meet the requirements in conditions 116 and 117. *(EPA GTA)*
119. Trucks which are entering and leaving the premises and carrying loads must be sealed or covered at all times, except during loading and unloading. *(EPA GTA)*
120. All internal permanent roadways between the container transfer area and Collector Road must be sealed. *(EPA GTA)*
121. All sealed surfaces intended to carry vehicular traffic must be managed to minimise the quantity of wind blown dust emissions. *(EPA GTA)*
122. All unsealed roads must be treated so that there are no visible dust emissions. Details of treatment measures must be documented in the LEMP.
123. A progressive rehabilitation strategy must be prepared and implemented for any unsealed areas of the site to prevent both wind blown dust emissions and contaminated stormwater runoff. This strategy must be documented in the LEMP. *(EPA GTA)*

#### Intermodal Facility Site

##### *Construction and Operational Phases*

124. Activities occurring at the premises must be carried out in a manner that will minimise emissions of dust from the premises. *(EPA GTA)*
125. The Applicant shall prepare a dust management plan that outlines measures to prevent wind blown dust. The dust management plan must be included as a component of the LEMP. The dust management plan must specify measures to prevent wind blown dust during the construction and operational phases. *(EPA GTA)*

126. Trucks entering and leaving the premises that are carrying excavated dusty materials including clays, sands and soils must be covered at all times, except during loading and unloading. (EPA GTA)
127. All sealed and unsealed surfaces shall be managed to minimise the quantity of wind blown dust emissions. (EPA GTA)

## **ENVIRONMENTAL MONITORING (EPA GTAs)**

### ***Waste Management Facility Site***

#### Odour Monitoring

128. The Applicant must prepare and implement an odour monitoring plan. The plan must be developed in consultation with the EPA and documented in the LEMP.

#### Ambient Air Quality Monitoring

129. The Applicant must prepare and implement an ambient air quality-monitoring plan. The ambient air quality monitoring plan must be documented in the LEMP. The plan must address but may not necessarily be limited to the following:

- (a) Monitoring methodologies and standards;
- (b) Monitoring for concentrations of total suspended particulates (TSP), lead and dust deposition rates;
- (c) Locations where monitoring will be carried out;
- (d) Detailed monitoring cycle and the duration of each monitoring cycle; and
- (e) Reporting.

Monitoring is to be carried out in accordance with *Approved Methods for the Sampling and Analysis of Air Pollutants* NSW December 1999, or other methods stipulated in the EPL.

#### Landfill Gas Monitoring

130. The Applicant must prepare and implement a system of monitoring surface and subsurface landfill gas concentrations. Details of the surface and subsurface landfill gas monitoring system must be documented in the LEMP.

At a minimum, landfill gas shall be monitored for methane, carbon dioxide, and oxygen. The EPL may require other substances to be monitored.

#### Groundwater Monitoring

131. The Applicant shall prepare and implement a groundwater monitoring program that can detect groundwater flow and direction and any occurrence of groundwater pollution. The groundwater monitoring program must be documented in the LEMP.

*Note: The specific requirements of the monitoring program will be stipulated in the EPL.*

The program must include details on:

- (a) location of bore holes around the perimeter of the mine void and ED3—including the depth at which they are screened to enable access of groundwater;
- (b) monitoring the height of the groundwater table;
- (c) monitoring the groundwater gradient and to determine the direction of groundwater flow;
- (d) monitoring methodologies and standards to be employed;



- (e) reporting and assessment of results;
- (f) opportunities to integrate the monitoring program with other monitoring programs in the vicinity;
- (g) the parameters and substances that are proposed to be monitored, including sampling and analysis frequencies; and
- (h) groundwater height should be reported against water table contours around the site to assess any variation over time.

*Note: The exploration drill holes around the perimeter of the void should be investigated as monitoring sites in the development of the groundwater monitoring program.*

*The EPA will require a more extensive listing of elements and compounds to be monitored for a period, prior to the landfilling of the first load of waste. The purpose of this program will be to establish a robust baseline of the quality of the groundwater. This comprehensive monitoring will then be required on an annual basis.*

### Surface Water Monitoring

132. The Applicant shall prepare and implement a surface water-monitoring program to monitor the environmental performance of the construction, operation and rehabilitation of the development on surface water. The surface water-monitoring program must be documented in the LEMP.

*Note: The specific requirements of the monitoring program will be stipulated in the EPL.*

The program must include details on:

- (a) Monitoring locations including:
  - (i) Crisps Creek ;
  - (ii) Allianoyonyiga Creek;
  - (iii) ED3; and
  - (iv) rainwater collected in the mine void;
- (b) monitoring methodologies and standards to be employed;
- (c) monitoring frequency based on rainfall events and creek flow assessment;
- (d) an assessment of the contribution of surface water pollution from the Woodlawn Waste Management Facility as distinct from the Woodlawn Mine site;
- (e) the quantity of water relocated from the mine void into ED3;
- (f) the quantity of water relocated from ED3 into the mine void;
- (g) the chemical composition of liquids added to the landfilled waste;
- (h) the quantity of water that reports to ED3 , including its sources;
- (i) the quantity of water removed and/or discharged from ED3, including its destination;
- (j) the total quantity of water contained in ED3;
- (k) the parameters and substances that are proposed to be monitored, including sampling and analysis frequencies;
- (l) reporting and assessment of results; and
- (m) opportunities to integrate the monitoring program with other monitoring programs in the vicinity.

*Notes: The EPA will require a broader range of elements and compounds to be monitored for a short period, prior to waste being received at the site. This comprehensive monitoring will then be required to be conducted on an annual basis.*

*The monitoring of ED3 will initially be at weekly intervals and will be reviewed 12 months after commencement of landfilling operations.*

#### Leachate Monitoring

133. The Applicant shall prepare and implement a leachate quality and quantity monitoring program. The program must be documented in the LEMP.

*Note: The specific requirements of the monitoring program will be stipulated in the EPL.*

The program must include details on:

- (a) monitoring locations;
  - (b) monitoring methodologies and standards to be employed;
  - (c) monitoring frequency
  - (d) the height of the saturation level in the waste;
  - (e) the parameters and substances which are proposed to be monitored (eg redox potential, metals); and
  - (f) reporting and assessment of results.
134. The Applicant shall notify the EPA as soon as practicable after becoming aware that the height of the saturation level in the waste is above the height of the groundwater table that surrounds the mine void.

#### Environmental Performance of the Bioreactor Landfill

135. A Bioreactor Performance Monitoring Program (BPMP) must be developed and implemented which will:

- (a) assess the efficiency of the decomposition of the landfilled waste;
- (b) assess the optimum leachate recirculation program;
- (c) assess the optimum water injection program;
- (d) assess the effect of the saturation depth of the leachate on bioreactor performance; and
- (e) assess the quantity of methane and carbon dioxide (and the relative proportions) that are emitted by the biological decomposition of the landfilled waste;

The BPMP must also include monitoring of the quantity of rainwater that passively infiltrates into the landfilled waste, the quantity and chemical composition of water that is deliberately added to the landfilled waste, and the quantity of leachate in the landfilled waste.

The Bioreactor Performance Monitoring Program must be documented in the LEMP.

*The specific requirements of the monitoring program will be stipulated in the EPL.*

#### Noise Monitoring

136. Noise levels must be monitored to confirm performance and to assess compliance with Condition 99, A noise-monitoring program must be developed and implemented. The noise-monitoring program must be submitted to the EPA for review. The program must be documented in the LEMP.

The program must include details on:

- (a) methodologies for noise monitoring;
- (b) location of noise monitoring; and
- (c) frequency of noise monitoring.

#### Geo-technical Stability

137. The geo-technical stability of the premises must be monitored in accordance with the recommendations of the report prepared by BFP Consultants P/L dated 17 December 1998, titled *Woodlawn Landfill – Geo-technical Study*. The monitoring program must be documented in the LEMP.

#### Reporting

138. The Applicant must provide an annual return to the EPA in relation to the development as required by any licence under the POEO Act 1997 in relation to the development. In the return, the Applicant must report on the annual monitoring undertaken (where the activity results in pollutant discharges), provide a summary of complaints relating to the development, report on compliance with licence conditions and provide a calculation of licence fees (administrative fees and, where relevant, load based fees) that are payable. If load based fees apply to the activity the Applicant will be required to submit load-based fee calculation work-sheets with the return.

#### ***Intermodal Facility Site***

##### Water Monitoring Program

139. A surface water-monitoring program must be developed and implemented. The program must include details on but need not necessarily be limited to the following:

- (a) monitoring locations including:
  - (i) Crisps Creek ;
  - (ii) Mulwaree River; and
  - (iii) the bypass from the first flush structure(s);
- (b) the monitoring methodologies and standards to be employed;
- (c) monitoring frequency based on rainfall event and creek flow assessment;
- (d) the quantity of water collected weekly in the first flush structure;
- (e) reporting and assessment of results;
- (f) the parameters and substances which are proposed to be monitored; and
- (g) opportunities to integrate the monitoring program with other monitoring programs in the vicinity.

The monitoring program must be documented in the LEMP.

*Note: The specific requirements of the monitoring program will be stipulated in the EPL.*

#### Noise Monitoring

140. Noise levels must be monitored to confirm performance and to assess compliance with Conditions 100 and 101. A noise-monitoring program must be developed and implemented. The program must include details on:

- (a) methodologies for noise monitoring;
- (b) location of noise monitoring; and

- (c) frequency of noise monitoring.

The monitoring program must be documented in the LEMP.

*Note: The specific requirements of the monitoring program will be stipulated in the EPL.*

## ROADWORKS

141. Prior to the commencement of construction, the Applicant shall undertake and submit to Council a detailed pavement analysis on the affected sections of Main Road 268 (Bungendore Road) and Collector Road. The Applicant shall fund any necessary rehabilitation work identified in the pavement analysis.

142. The Applicant shall fund and provide on Main Road 268 (Bungendore Road) a minimum bitumen sealed width of 9.0 metres, incorporating marked fog lines and centre-line as well as any required bus stops.

*Note: This has been agreed between Mulwaree Shire Council and the Applicant. It has been accepted there will be a 7.0m wide road with 1m shoulders either side of the road which will be primed and sealed only.*

143. The intermodal facility access road shall be constructed in accordance with Auspec specifications and shall have a 7.0 metre wide sealed bitumen pavement for two way roads and 5.0 metres on one way roads.

144. In accordance with the "Mulwaree Section 94 Contributions Plan", the Applicant shall provide a financial contribution to Council towards extraordinary road damage accept as may be waived by Council. The contribution is to be paid quarterly in arrears.

*Note: the above contribution is current at the time of consent and will be indexed at six monthly intervals in accordance with any increase in the Consumer Price Index (All Groups) Sydney following publication by the Australian Bureau of Statistics.*

145. Prior to the commencement of landfilling operations, the Applicant shall fund and undertake to the satisfaction of Council and the Roads and Traffic Authority the following works:

- (a) rehabilitation of the pavement at the intersection of Bungendore and Collector Roads;
- (b) provision of a right turn bay at the intersection of Bungendore and Collector Roads for south-bound traffic turning into Collector Road;
- (c) construction of a right turn bay on Bungendore Road for right-turning traffic into the Intermodal Facility. (MSC GTA); and
- (d) paving of the following areas with an asphalt concrete overlay:
  - (i) intersection of the Intermodal access road and Main Road 268
  - (ii) intersection of Main Road 268 and the Collector Road
  - (iii) intersection of the Collector Road and the access road to the landfill site.

146. The access point to the Intermodal Facility at Bungendore Road shall be constructed to a design and standard to the Roads and Traffic Authority (RTA) and Council specifications and shall have a minimum sight distance of 225 metres in both directions. (MSC GTA)

147. The access point to the Waste Management Facility site at Collector Road shall be constructed to accommodate B-doubles. (MSC GTA)

148. The Applicant shall liaise with Council in relation to upgrading the existing warning signposting at the junction of Bungendore and Collector Roads to better inform through traffic of the side road junction and turning trucks. (MSC GTA)

## **LANDSCAPING AND VEGETATION MANAGEMENT**

149. The Applicant shall prepare a Landscaping and Vegetation Management Plan for both the Waste Management Facility and Intermodal Facility sites. The Plan shall be prepared by a suitably qualified person and shall address, but not be limited to, the following matters:
- (a) details of likely vegetation loss, means to minimise such loss and additional tree planting to offset this loss;
  - (b) proposed plant species; and
  - (c) details on landscaping treatment at the intermodal facility site, with particular attention to minimising the visibility of the facility from residences and public vantage points.
150. The Plan shall be prepared to the satisfaction of the Director-General and Council and shall be submitted at least three months prior to the commencement of landfilling operations.

## **AGRICULTURAL RISKS**

151. The Applicant shall prepare to the satisfaction of NSW Agriculture a contingency plan for agricultural risks in the event of an incident such as an accident during the transportation of waste from Sydney.
152. As part of the LEMP, the Applicant shall prepare a plan to manage pests, diseases, vermin, and declared noxious weeds. The plan shall also address measures to manage bird pests in order to minimise the risk of any transfer of contaminants from the waste management facility site to regional waterways and water supply reservoirs. The plan shall also address the recommendations of the report prepared by Kinsella Consulting entitled "*Potential for Transport of Pests and Diseases of Plants and Animals from North Sydney to Tarago in Municipal Wastes*", dated February 1999 and included as Appendix L of the EIS. (EPA GTA)

## **FLORA AND FAUNA**

### ***Terrestrial Flora and Fauna***

153. The Applicant shall consult with NPWS on measures to conserve the population of the vulnerable orchard (*Diuris aequalis* – Buttercup Doubletail) in retained natural woodland on land within the Woodlawn mine site that is subject to the DA or areas potentially affected by the operation of the waste management facility.

### ***Aquatic Flora and Fauna***

154. The Applicant shall consult NSW Fisheries prior to the commencement of any works (including, but not limited to channel realignment, dredging, reclamation, culverts, road crossings, pipelines and weirs) in or adjacent to aquatic habitats.
155. The Applicant shall undertake all practicable measures to maintain and, where possible, enhance existing habitat features in the Mulwaree River and Crisps Creek, including gravel beds, riffles, pools, snags and aquatic and riparian vegetation.

156. The Applicant shall, in consultation with NSW Fisheries, ensure that the bridge from the Intermodal Facility over Mulwaree River is designed so that fish passage, in-stream flow and stream bed continuity are maintained.

## **HERITAGE AND ARCHAEOLOGY**

### ***Aboriginal Heritage***

*Note: The Applicant has been given Consent to Destroy for sites Crisps Creek 1 and 2, Tarago, NSW under section 90 of the National Parks and Wildlife Act 1974. Artefacts from Crisp Creeks sites 1, 2 and 4 have been salvaged, in accordance with the conditions of NPWS Permit #SCHU 0071.*

### ***Non-Aboriginal Heritage***

157. In the event that any items potentially of non-Aboriginal heritage significance are identified on the subject land during the carrying out of works, the Applicant shall arrange for a suitably qualified archaeologist to inspect the item/s, determine the level of significance of the item/s and advise on appropriate management measures.

## **CONTINGENCY PLANNING**

### ***Emergency Management Plan***

158. In relation to activities, which in the event of a disruption to operations may result in significant pollution being emitted, the Applicant must:
- (a) conduct an assessment to determine the potential internal and external causes of disruption of operations at the premises;
  - (b) determine how these disruptions would impact on operations; and
  - (c) identify the pollution that would result due to the disruption of operations and what impact the pollution would have on the health of the community and the environment.
159. In relation to matters identified in Condition 158, as part of the LEMP, the Applicant must prepare an Emergency Management Plan. The Plan shall address, but not necessarily be limited to:
- (a) identification of threats to the environment and/or public health that could arise in relation to the construction and operation of Waste Management Facility and Intermodal Facility including the transportation of waste. These threats may include fire (waste transportation or within the landfill), overflow, dam failure, power or other utility failure, natural disaster etc;
  - (b) identification of strategies to minimise and ameliorate the effects of any groundwater surface water pollution identified from the groundwater and surface water monitoring programs;
  - (c) an estimate of the cost of implementation;
  - (d) actions to effectively respond to the disruption of operations so the risk of pollution is minimised;
  - (e) a communications strategy for alerting relevant agencies and the potentially affected community in the event of the disruption to operations leading to significant pollution; and

- (f) ensuring that all relevant employees are familiar with the emergency management plan.

The Applicant should regularly review the adequacy of the plan obtaining expert advice as required.

*Note: When developing this emergency plan, opportunities may exist to integrate with the Woodlawn Mine site emergency management plans.*

## **COMPLAINTS PROCEDURES**

- 160. Prior to the commencement of construction, the Applicant shall establish a free-call telephone line that operates 24 hours per day 7 days per week on which complaints about the subject development can be registered. The Applicants shall record details of all complaints received and actions taken in response to complaints in an up-to-date log book. The Applicants shall ensure that an initial response to complainants is provided within 24 hours and detailed response within 10 days of the complaint being lodged. The system must also be provided with a complaint verification procedure which correlates potential sources of odours with an operation or activity by assessing relevant meteorological data.
- 161. The complaints register shall be available for inspection upon request by the Director-General, EPA, DLWC, and the CLC.



## **ATTACHMENT A**

### **GENERAL AND MANDATORY CONDITIONS FOR ALL EPA LICENCES**

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#### **Administrative Conditions**

The Applicant must, in the opinion of the EPA, be a fit and proper person to hold a licence under the POEO (POEO) Act 1997, having regard to the matters in S.83 of that Act.

#### **Limit Conditions**

##### Pollution of waters

Except as may be expressly provided by a licence under the POEO Act 1997 in relation to the development, Section 120 of the POEO Act 1997 must be complied with.

#### **Operating Conditions**

##### Activities must be carried out in a competent manner

Licensed activities must be carried out in a competent manner.

This includes:

- (a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and
- (b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.

##### Maintenance of plant and equipment

All plant and equipment installed at the premises or used in connection with the licensed activity:

- (a) must be maintained in a proper and efficient condition; and
- (b) must be operated in a proper and efficient manner.

#### **Waste**

The licensee must not cause, permit or allow any waste generated outside the premises to be received at the premises for storage, treatment, processing, reprocessing or disposal or any waste generated at the premises to be disposed of at the premises, except as expressly permitted by a licence under the POEO Act 1997.

This condition only applies to the storage, treatment, processing, reprocessing or disposal of waste at the premises if it requires an environment protection licence under the POEO Act 1997.

## **MONITORING AND RECORDING CONDITIONS**

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### **Testing Methods – Concentration Limits**

Monitoring for the concentration of a pollutant discharged to waters or applied to a utilisation areas must be done in accordance with:

- the Approved Methods Publication; or
- if there is no methodology required by the Approved Methods Publication or by the general terms of approval or in the licence under the POEO Act 1997 in relation to the development or the relevant load calculation protocol, a method approved by the EPA in writing before any tests are conducted,

unless otherwise expressly provided in the GTAs or Licence Conditions.

### **Monitoring records**

The results of any monitoring required to be conducted by the EPA's general terms of approval (GTAs), or a licence under the POEO Act 1997, in relation to the development or in order to comply with the load calculation protocol must be recorded and retained as set out in GTAs or Licence Conditions.

All records required to be kept by the licence must be:

- in a legible form, or in a form that can readily be reduced to a legible form;
- kept for at least four years after the monitoring or event to which they relate took place; and
- produced in a legible form to any authorised officer of the EPA who asks to see them.

The following records must be kept in respect of any samples required to be collected: the date(s) on which the sample was taken;

- the time(s) at which the sample was collected;
- the point at which the sample was taken; and
- the name of the person who collected the sample.

### **Recording of pollution complaints**

The licensee must keep a legible record of all complaints made to the licensee or any employee or agent of the licensee in relation to pollution arising from any activity to which this licence applies.

The record must include details of the following:

- (a) the date and time of the complaint;
- (b) the method by which the complaint was made;
- (c) any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect;
- (d) the nature of the complaint;
- (e) the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and
- (f) if no action was taken by the licensee, the reasons why no action was taken.

The record of a complaint must be kept for at least 4 years after the complaint was made.

The record must be produced to any authorised officer of the EPA who asks to see them.

### **Telephone complaints line**

The licensee must operate a 24 hour telephone complaints line for the purpose of receiving any complaints from members of the public in relation to activities conducted at the premises or by the vehicle or mobile plant, unless otherwise specified in the licence.

The licensee must notify the public of the complaints line telephone number and the fact that it is a complaints line so that the impacted community knows how to make a complaint.

This condition does not apply until 3 months after this condition takes effect.

## **REPORTING CONDITIONS**

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The Applicant must provide an annual return to the EPA in relation to the development as required by any licence under the POEO Act 1997 in relation to the development. In the return the Applicant must report on the annual monitoring undertaken (where the activity results in pollutant discharges), provide a summary of complaints relating to the development, report on compliance with licence conditions and provide a calculation of licence fees (administrative fees and, where relevant, load based fees) that are payable. If load based fees apply to the activity the Applicant will be required to submit load-based fee calculation work sheets with the return.

### **Annual Return documents**

#### **What documents must an Annual Return contain?**

The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:

- (a) a Statement of Compliance; and
- (b) a Monitoring and Complaints Summary.

A copy of the form in which the Annual Return must be supplied to the EPA accompanies this licence. Before the end of each reporting period, the EPA will provide to the licensee a copy of the form that must be completed and returned to the EPA.

#### **Period covered by Annual Return**

An Annual Return must be prepared in respect of each reporting, except as provided below.

**Note:** The term “reporting period” is defined in the dictionary at the end of this licence. Do not complete the Annual Return until after the end of the reporting period.

Where this licence is transferred from the licensee to a new licensee,

- (a) the transferring licensee must prepare an annual return for the period commencing on the first day of the reporting period and ending on the date the application for the transfer of the licence to the new licensee is granted; and
- (b) the new licensee must prepare an annual return for the period commencing on the date the application for the transfer of the licence is granted and ending on the last day of the reporting period.

**Note:** An application to transfer a licence must be made in the approved form for this purpose.

Where this licence is surrendered by the licensee or revoked by the EPA or Minister, the licensee must prepare an annual return in respect of the period commencing on the first day of the reporting period and ending on:

- (a) in relation to the surrender of a licence – the date when notice in writing of approval of the surrender is given; or
- (b) in relation to the revocation of the licence – the date from which notice revoking the licence operates.

### **Deadline for Annual Return**

The Annual Return for the reporting period must be supplied to the EPA by registered post not later than 60 days after the end of each reporting period or in the case of a transferring licence not later than 60 days after the date the transfer was granted (the 'due date').

### **Licensee must retain copy of Annual Return**

The licensee must retain a copy of the annual return supplied to the EPA for a period of at least 4 years after the annual return was due to be supplied to the EPA.

### **Certifying of Statement of Compliance and Signing of Monitoring and Complaints Summary**

Within the Annual Return, the Statement of Compliance must be certified and the Monitoring and Complaints Summary must be signed by:

- (a) the licence holder; or
- (b) by a person approved in writing by the EPA to sign on behalf of the licence holder.

A person who has been given written approval to certify a Statement of Compliance under a licence issued under the Pollution Control Act 1970 is taken to be approved for the purpose of this condition until the date of first review this licence.

### **Notification of environmental harm**

Note: The licensee or its employees must notify the EPA of incidents causing or threatening material harm to the environment as soon as practicable after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.

Notifications must be made by telephoning the EPA's Pollution Line service on 131 555.

The licensee must provide written details of the notification to the EPA within seven days of the date on which the incident occurred.

### **Written report**

Where an authorised officer of the EPA suspects on reasonable grounds that:

- (a) where this licence applies to premises, an event has occurred at the premises; or
- (b) where this licence applies to vehicles or mobile plant, an event has occurred in connection with the carrying out of the activities authorised by this licence,

and the event has caused, is causing or is likely to cause material harm to the environment (whether the harm occurs on or off premises to which the licence applies), the authorised officer may request a written report of the event.

The licensee must make all reasonable inquiries in relation to the event and supply the report to the EPA within such time as may be specified in the request.

The request may require a report which includes any or all of the following information:

- (a) the cause, time and duration of the event;
- (b) the type, volume and concentration of every pollutant discharged as a result of the event;
- (c) the name, address and business hours telephone number of employees or agents of the licensee, or a specified class of them, who witnessed the event; and
- (d) the name, address and business hours telephone number of every other person (of whom the licensee is aware) who witnessed the event, unless the licensee has been unable to obtain that information after making reasonable effort;
- (e) action taken by the licensee in relation to the event, including any follow-up contact with any complainants;
- (f) details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event;
- (g) any other relevant matters.

The EPA may make a written request for further details in relation to any of the above matters if it is not satisfied with the report provided by the licensee. The licensee must provide such further details to the EPA within the time specified in the request.

#### **GENERAL CONDITIONS**

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Copy of licence kept at the premises or on the vehicle or mobile plant.

A copy of this licence must be kept at the premises or on the vehicle or mobile plant to which the licence applies.

The licence must be produced to any authorised officer of the EPA who asks to see it.

The licence must be available for inspection by any employee or agent of the licensee working at the premises or operating the vehicle or mobile plant.

## ATTACHMENT B

### DEFINITIONS RELEVANT TO EPA LICENCES

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In the EPA GTAs, except in so far as the context or subject matter otherwise indicates or requires:

*“Applicant”* means Collex Waste Management Pty Limited.

*“Approved”* means approved in writing by the EPA or as specified in a condition in a licence.

*“End of Mine Life Steering Committee”* means the steering committee formed from the MREMP process to oversee environmental issues relating to mine closure. The Committee consists of representatives from Denehurst P/L, Price Waterhouse Coopers P/L (Administrators Appointed), NSW Department of Mineral Resources, NSW Department of Land and Water Conservation, NSW Environment Protection Authority and Mulwaree Shire Council. *“EPA Tyre Disposal Specifications”* means the current approved EPA procedure for disposal of tyres. As at 31/8/99, this approved procedure is (for tyres less than 1.2 metres in diameter which originate in the Sydney Metropolitan area) shredding tyres into pieces which measure no more than 250 mm in any direction or removing the walls in tyres prior to disposal.

*“Independent review”* means a review that is undertaken by a suitably qualified Environmental Consultant of monitoring, reporting, testing and the environmental performance of a company in meeting Licence requirements.

*“landfill gas”* means the gas that is generated by the decomposition of waste.

*“Landfill Guidelines”* means the EPA's "Environmental Guidelines: Solid Waste Landfills", or as otherwise amended by the EPA

*“Landfill site”* means a waste facility used for the purposes of disposing of waste to land.

*“Leachate”* means the polluted liquid that is released by or has percolated through waste. Pollutants contained in leachate include dissolved and suspended solids, organic chemicals, and dissolved gases.

*“ $L_{A10}$  T”* means the sound pressure level (A weighted) that is exceeded for 10 percent of the observed time “T”.

*“LEMP”* means landfill environment management plan.

*“Licence”* means an environment protection licence issued under the Protection of the Environment Operations Act 1997

*“MREMP”* means the Mining Rehabilitation Environmental Management Plan prepared by Denehurst P/L for the Woodlawn Mine site to meet mining lease requirements and overseen by the NSW Department of Mineral Resources.

*“mg/L”* means milligrams per litre

*“Offensive odour”* means odour:

- (a) that, by reason of its strength, nature, duration, character or quality, or the time at which it is emitted, or any other circumstances:
  - (i) is harmful to (or is likely to be harmful to) a person who is outside the premises from which it is emitted, or
  - (ii) interferes unreasonably with (or is likely to interfere unreasonably with) the comfort or repose of a person who is outside the premises from which it is emitted, or

- (b) that is of a strength, nature, duration, character or quality prescribed by the regulations or that is emitted at a time, or in other circumstances, prescribed by the regulations.

**It is a defence in proceedings against a person for an offence against this section if the person establishes that:**

- (a) the emission is identified in the relevant environment protection licence as a potentially offensive odour and the odour was emitted in accordance with the conditions of the licence directed at minimising the odour; or
- (b) the person affected by the odour were a person engaged in the management or operation of the premises.

A person who contravenes this section is guilty of an offence.

“*POEO*” means the Protection of the Environment Operations Act 1997

“*Putrescible waste*” has the same meaning as in the *Waste Minimisation and Management Act 1995*, which is waste being food or animal matter (including dead animals or animal parts) or unstable or untreated biosolids.

“*g*” means micrograms

“*g/m<sup>3</sup>*” means micrograms per cubic metre

“*S/cm*” means micro siemens per centimetre

“*Void*” means the former open-cut mine pit at the Woodlawn mine site.

“*waste*” includes:

- (a) any substance (whether solid, liquid or gaseous) that is discharged, emitted or deposited in the environment in such volume, constituency or manner as to cause an alteration in the environment, or
- (b) any discarded, rejected, unwanted, surplus or abandoned substance, or
- (c) any otherwise discarded, rejected, unwanted, surplus or abandoned substance intended for sale or for recycling, reprocessing, recovery or purification by a separate operation from that which produced the substance, or
- (d) any substance prescribed by the regulations to be waste for the purposes of the *Waste Minimisation and Management Act, 1995*.

A substance is not precluded from being waste for the purposes of the *Waste Minimisation and Management Act, 1995* merely because it can be reprocessed, re-used or recycled.

“*Waste Guidelines*” means the EPA's *Environmental Guidelines: Assessment, Classification and Management of Liquid and Non-Liquid Wastes*, or as otherwise amended by the EPA.

“*Woodlawn Waste Management Facility*” means the landfill (mine void), intermodal facility, evaporation dam 3 (ED3) and includes other areas of the Woodlawn Mine site subject to the Development Application.

“*Woodlawn Mine site*” means the area bounded by the Woodlawn Mine property boundary nominated in figure 6.1 of the EIS titled Topography of Landfill Site and Surrounding Area in Woodlawn Waste Management Facility EIS Volume 1-Main Report prepared by Woodward Clyde P/L dated February 1999.

# Notice of Modification

## Section 75W of the *Environmental Planning & Assessment Act 1979*

As delegate of the Minister for Planning under instrument of delegation executed on 25 January 2010, I modify the development consent referred to in Schedule 1, subject to the conditions in schedule 2.



Chris Wilson  
Executive Director  
Major Projects Assessment

Sydney

11.8.10

2010

### SCHEDULE 1

**Development Consent:** (DA-31-02-99) granted by the Minister for Urban Affairs and Planning on 30 November 2000

**For the following:** construction and operation of the Woodlawn Waste Management Facility at 619 Collector Road Tarago, in the Goulburn Mulwaree and Palerang Local Government Areas

**Modification:** Modification No: 1 - to receive up to 50,000 tonnes per annum of waste at the facility by road, from local government areas in the vicinity of the facility

### SCHEDULE 2

The development consent is modified by:

- 1) Inserting a new condition 1 (e) as follows:

(e) Modification Application DA31-02-99 Mod1 and accompanying Environmental Assessment titled "*Modification to DA31-02-99 to Receive Regional Council Waste at the Woodlawn Bioreactor*", prepared by Veolia Environmental Services, dated February 2010 and the associated '*Response to Submissions*' prepared by Veolia Environmental Services dated 12 April 2010.

- 2) Replacing existing Table 1 ( within condition 4) with the following table:

**Table 1: Maximum Input Rates**

Years from date of operational commencement	Maximum Input Rate (Received by Rail from the Sydney region)	Maximum Input Rate (Received by Road from surrounding LGAs)
0-5	400,000 tpa	0
6-10	360,000 tpa	50,000 tpa
11-15	325,000 tpa	50,000 tpa
16-20	290,000 tpa	50,000 tpa



- 3) Replace existing condition 26 with the following:

The applicant shall ensure that:

- a) all waste received by rail at the Woodlawn Waste Management Facility is sourced from the Sydney region; and
- b) All waste received by road at the Woodlawn Waste Management Facility is sourced from local government areas in the vicinity of the site (in accordance with DA31-02-99 Mod1).

- 4) Inserting a new condition 32B as follows:

**TRANSPORT CODE OF CONDUCT**

Prior to the receipt of waste from adjoining local government areas via road outlined in DA31-02-99 Mod1, the Applicant shall prepare and implement a Transport Code of Conduct for the project to the satisfaction of the Director-General. This protocol must:

- (a) be prepared in consultation with the RTA, Goulburn Mulwaree and Palerang Councils, and be submitted to the Director-General for approval prior to the receipt of waste at the facility from adjoining local government areas via road; and
- (b) describe the measures to be implemented to:
  - minimise the impacts of the Development on the local and regional road network including traffic noise; and
  - minimise conflicts with other road users e.g. school bus operators.

# Notice of Modification

## Section 75W of the *Environmental Planning & Assessment Act 1979*

As delegate of the Minister for Planning, I modify the development consent referred to in Schedule 1, subject to the conditions in Schedule 2.



Ben Lusher  
**Acting Executive Director**  
**Key Sites and Industry Assessments**

Sydney

9 SEPTEMBER 2016

### SCHEDULE 1

- Development Consent:** DA 31-02-99 granted by the then Minister for Urban Affairs and Planning on 30 November 2000
- For the following:** Woodlawn Waste Management Facility at 619 Collector Road Tarago, in the Goulburn Mulwaree and Palerang Local Government Areas
- Applicant:** Veolia Environmental Services (Australia) Pty Ltd
- Consent Authority:** Minister for Planning
- The Land:** Lots 4, 5-6 in DP830765, Lots 8-9 in DP534616, Lot 19 in DP827588, Lots 14, 25, 30, **33, 34, 69**, 70, 86, 88, 91, and 92 in DP754919, **Lot 1 DP 241092**, part of the land comprising Lot 10 in DP703260 and part of the land comprising Lot 3 in DP754894.
- Modification:** **DA 31-02-99 MOD 2:** Modification for changing the site water and leachate management to allow the use of:
- ED2 for the mine void storm water storage; and
  - ED3S for treated leachate storage.

### SCHEDULE 2

The above approval is modified as follows:

- (a) Schedule 2 – Abbreviations and Interpretation are amended by the insertion of the **bold and underlined** words / numbers and deletion of ~~struck-out~~ words/numbers in alphabetical order as follows:

The Department                      The Department of Urban ~~Affairs and~~ Planning **and Environment**

<del>The Director-General</del>	<del>The Director-General of the Department of Urban Affairs and Planning</del>
<del>DLWC</del>	<del>Department of Land and Water Conservation</del>
<b>DPI-Water</b>	<b>Department of Primary Industries – Water</b>
<b>ED2</b>	<b>Evaporation Dam No.2, as referred to in MOD 2</b>
<b>ED3N</b>	<b>Evaporation Dam No.3 - North as referred to in MOD 2</b>
<b>ED3S</b>	<b>Evaporation Dam No.3 - South as referred to in MOD 2</b>
<b>ED3S-S</b>	<b>Evaporation Dam No.3 - South (southern lagoon) as referred to in Figure 1 (Appendix A)</b>
<b>EPA</b>	<b>Environment Protection Authority</b>
<b>MOD 2</b>	<b>Modification Application titled “<i>Woodlawn Bioreactor – Modification to surface water and leachate management</i>” prepared by Parsons Brinckerhoff and dated 11 December 2015 and Response to Submissions dated June 2016</b>
<del>NPWS</del>	<del>National Parks and Wildlife Service</del>
<b>OEH</b>	<b>Office of Environment and Heritage</b>
<b>Secretary</b>	<b>Secretary of the Department (or delegate)</b>
<b>Water-NSW</b>	<b>NSW Water Supplier</b>

Delete all references to Director-General and replace with Secretary.

Delete all references to DLWC and replace with DPI-Water.

Delete all references to NPWS and replace with OEH.

- (b) Schedule 2 – Condition 1 is amended by the insertion of the bold and underlined words / numbers as follows:

## **GENERAL CONDITIONS**

### ***Adherence to Terms of DA and EIS***

1. Development shall be carried out in accordance with:
  - (a) DA No. 31-02-99;
  - (b) the EIS prepared by Woodward-Clyde Pty Ltd, dated February 1999;
  - (c) the EIS Supplementary Report prepared by Woodward-Clyde Pty Ltd, dated March 1999;
  - (d) the Amended DA and accompanying information prepared by Woodward-Clyde, dated 12 November 1999,
  - (e) Modification Application DA31-02-99 Mod1 and accompanying Environmental Assessment titled “*Modification to DA31-02-99 to Receive Regional Council Waste at the Woodlawn Bioreactor*”, prepared by Veolia Environmental Services, dated February 2010 and the associated ‘*Response to Submissions*’ prepared by Veolia Environmental Services dated 12 April 2010; and
  - (f) Modification Application DA 31-02-99 MOD 2; and** except as modified by the following conditions.

In the event of an inconsistency between this consent and DA No. 31.02.99 (and accompanying EIS and other supporting documents), this consent shall prevail.

- (c) Schedule 2 is amended by the insertion of the following new Condition 16A, after Condition 16 as shown in **bold and underlined** as follows:

**Consultation with Tarago and District Progress Association Incorporated (TADPAI)**

**16A. The Applicant shall meet quarterly with TADPAI representatives and provide updated information on odour incidents, leachate management and gas extraction and resolution of incidents related to the local community.**

- (d) Schedule 2 – Condition 64 is amended by the insertion of the **bold and underlined** words / numbers as follows:

64. Stormwater in the mine void must only be discharged into **ED3S sump, for transfer via pipeline to ED2,** or otherwise used for operational purposes within the landfill, as approved in writing by the EPA. (EPA GTA)

- (e) Schedule 2 – Condition 65 is amended by the insertion of the bold and underlined words / numbers and deletion of struck-out words/numbers as follows:

65. Stormwater collected in the mine void may only be transferred into **ED3S sump and ED2** provided that:

- a) The Applicant can always comply with condition 58; **and**
- b) ~~the concentration of ammonia in the stormwater to be transferred does not exceed 0.03 mg/L, and the concentration of total organic carbon in the stormwater does not exceed 1 mg/L; and~~
- c) the stormwater to be transferred contains no leachate, unless otherwise approved in writing by the EPA. (EPA GTA)

- (f) Schedule 2 – is amended by the insertion of the following new Condition 66A, after Condition 66 as shown in **bold and underlined** as follows:

**66A. Within two months of the date of the approval of MOD 2 or as otherwise agreed by the Secretary, the Applicant shall submit a revised Stormwater Management Plan to the Secretary for approval. The plan shall be prepared in consultation with the EPA and include the changes to water management in MOD 2, in accordance with the requirements of Condition 66.**

- (g) Schedule 2 – is amended by the insertion of the following new Condition 66B, after Condition 66A as shown in **bold and underlined** as follows:

**66B. Within two months of the date of the approval of MOD 2, or as otherwise agreed by the Secretary, the Applicant shall submit a revised Management Plan for ED3N, ED3S and ED3S-S to the Secretary for approval. The plan shall be prepared in consultation with the EPA and include the changes to water management in MOD 2, in accordance with the requirements of Condition 70.**

- (h) Schedule 2 – Condition 70 is amended by the insertion of the **bold and underlined** words / numbers and deletion of the struck-out words/numbers as follows:

**ED3N, ED3S and ED3S-S – Management**

70. The Applicant must prepare a management plan for **ED3N, ED3S and ED3S-S** to ensure that:

- (a) ~~the~~ **each** dam is **lined and** maintained to prevent leakage of **from the dams** acid mine drainage waters in order to protect groundwater and surface water;

- (b) a monitoring and inspection program is implemented including installation of monitoring bores, a review of monitoring data and six-monthly inspections to evaluate the integrity of the barrier and to assess if leakage from the dam is occurring;
- (c) adequate capacity is retained in **ED3N and ED3S** to meet the environmental performance requirements in condition 58.
- (d) measures are identified to maintain adequate capacity within a suitable time period after receiving water from a rainfall event;
- (e) there is an emergency plan for the management of **leachate** water in excess of the capacity of **ED3N and ED3S**;
- (f) the sources of **leachate** water that are collected or received in **ED3N and ED3S** are identified; and
- (g) the quantity of **leachate** water ~~(in cubic metres per hour)~~ from each source that reports to **ED3N, and ED3S** is monitored and compared in graphical format with rainfall data.

**An updated plan including MOD 2** The plan must be documented in the LEMP.

- (i) Schedule 2 – is amended by the insertion of the following new Condition 70A, after Condition 70 as shown in **bold and underlined** as follows:

#### **Treated Leachate Storage in ED3S-S**

**70A. The Applicant must confirm in writing to the EPA and the Secretary the dam lining is in place (in accordance with Condition 70), prior to the discharge of treated leachate into ED3S-S. From the commencement of MOD 2, the Applicant shall provide quarterly updates to the EPA and the Secretary of the leachate volume in ED3S-S (southern lagoon) and the remaining storage volume.**

- (j) Schedule 2 – is amended by the insertion of the following new Condition 70B, after Condition 70A as shown in **bold and underlined** as follows:

#### **ED2 - Management**

**70B. The Applicant must prepare a management plan for ED2 to ensure that:**

- (a) only mine void stormwater that does not contain leachate and direct rainfall and runoff is received and stored within ED2;
- (b) the dam is lined and maintained to prevent the leakage of stored acid mine drainage waters in order to protect groundwater and surface water;
- (c) a monitoring and inspection program is implemented including installation of monitoring bores, a review of monitoring data and six-monthly inspections to evaluate the integrity of the barrier and to assess if leakage from the dam is occurring;
- (d) adequate capacity is retained in ED2 to meet the environmental performance requirements in condition 58.
- (e) measures are identified to maintain adequate capacity within a suitable time period after receiving water from a rainfall event;
- (f) there is an emergency plan for the management of water in excess of the capacity of ED2;
- (g) the sources of water that are collected or received in ED2 are identified; and
- (h) the quantity of water from each source that reports to ED2 is monitored and compared in graphical format with rainfall data.

The plan must be prepared in consultation with the EPA and submitted to the Secretary for approval within two months of the date of approval for MOD 2 or as otherwise agreed by the Secretary. The revised plan shall be documented in the LEMP.

70C. Seepage or leakage points in ED2 must be identified and repaired to the satisfaction of the Secretary and EPA prior to the transfer of any stormwater from ED3S to ED2.

- (k) Schedule 2 – is amended by the insertion of the following new Condition 70C, after Condition 70B as shown in **bold and underlined** as follows:

#### **Long-term Leachate Management**

70D. The Proponent must develop and implement a Longterm Leachate Management Strategy that:

- Minimises the generation of leachate at the premises;
- Captures, treats and disposes of all leachate generated at the premises;
- Maintains leachate levels in the waste mass to a level that does not inhibit the efficiency of the landfill gas extraction system;
- Progressively removes all treated leachate from ED3; and
- Minimise the emission of offensive odours from leachate treated and stored onsite so that there is no off site impact.

The Longterm Leachate Management Strategy must be submitted to the Secretary and the EPA (for inclusion as a Pollution Reduction Program attached to environment protection licence 11436) for approval within two months of the approval date of MOD 2.

70E. Treated leachate must not be discharged to any part of ED3S, other than ED3S-S, until such time as the Long Term Leachate Management Strategy has been approved by the Secretary and the EPA.

70F. The Longterm Leachate Management Strategy must be operational no later than 20 December 2017, or as otherwise agreed by the Secretary.

- (l) Schedule 2 – Condition 132 is amended by the insertion of the **bold and underlined** words / numbers and deletion of ~~struck-out~~ words/numbers as follows:

#### **Surface Water Monitoring**

132. The Applicant shall prepare and implement a surface water-monitoring program to monitor the environmental performance of the construction, operation and rehabilitation of the development on surface water. The surface water-monitoring program must be documented in the LEMP.

*Note: The specific requirements of the monitoring program will be stipulated in the EPL.*

The program must include details on:

- a. Monitoring locations including:
  - i. Crisps Creek;
  - ii. Allianoyonyiga Creek;
  - iii. ED3N;

- iv. ED3S;
- v. ED3S-S;
- vi. ED2;
- vii. Downstream receiving waters of ED2;
- viii. Treated leachate effluent discharge line,
- ix. Discharge line from ED3S to ED2, and
- x. rainwater collected in the mine void;
- b. monitoring methodologies and standards to be employed;
- c. monitoring frequency based on rainfall events and creek flow assessment;
- d. an assessment of the contribution of surface water pollution from the Woodlawn Waste Management Facility as distinct from the Woodlawn Mine site;
- e. the quantity of water relocated from the mine void into ED3;
- f. the quantity of water relocated from ED3 into the mine void;
- g. the chemical composition of liquids added to the landfilled waste;
- h. the chemical composition of treated leachate in the effluent discharge line;
- i. the chemical composition of leachate within ED3S-S;
- j. the quantity of water that reports to ED3, including its sources;
- k. the quantity of water removed and/or discharged from ED3, including its destination;
- l. the total quantity of water contained in ED3;
- m. the quantity of water transferred from ED3S into ED2;
- n. the quantity of water that reports to ED2, including its sources;
- o. the total quantity of water contained in ED2;
- p. the parameters and substances that are proposed to be monitored, including sampling and analysis frequencies;
- q. reporting and assessment of results; and
- r. opportunities to integrate the monitoring program with other monitoring programs in the vicinity.

*Notes: The EPA will require a broader range of elements and compounds to be monitored for a short period, prior to waste being received at the site. This comprehensive monitoring will then be required to be conducted on an annual basis.*

*The monitoring of ED3 will initially be at weekly intervals and will be reviewed 12 months after commencement of landfilling operations.*

**The Monitoring of ED2 will initially be at weekly intervals once the transfer of stormwater from ED3S to ED2 has commenced and will be reviewed 12 months after commencement of MOD 2.**

- (m) Schedule 2 – is amended by the insertion of the following new Condition 159A, after Condition 159 as shown in **bold and underlined** as follows:

**159A. Within six months of the approval lapse date of MOD 2, or within such further period as the Secretary may agree, the Applicant shall prepare and submit a revised Emergency Management Plan to the Secretary for approval. The plan shall include the site changes in MOD 2, in accordance with the requirements of Condition 159.**

- (n) Schedule 2 – is amended by the insertion of the following new Condition 162, after Condition 161 as shown in **bold and underlined** as follows:

#### **Complaints Handling Procedures**

**162. Within 2 months of the date of the approval of MOD 2, a complaints handling procedure must be submitted to the Secretary for approval. The procedure shall**

be prepared in consultation with the Department, Goulburn-Mulwaree Council, the EPA and the Community Liaison Committee. The complaints handling procedure must include:

- a formal complaint/incident reporting procedure;
- an investigation procedure; and
- a complaint resolution procedure.

A report of the complaint and the response/action taken and timeframe required to resolve the complaint must be made publicly available on the Applicant's website within 7 days of a complaint being made. Note: The level of detail contained in the report of the complaint shall be determined in consultation with the Department, Goulburn- Mulwaree Council, the EPA and the Community Liaison Committee.

- (o) Schedule 2 – is amended by the insertion of the following new Condition 163, after Condition 162 as shown in **bold and underlined** as follows:

**163. The Applicant shall provide a report to the Secretary of the complaints received, the response/action taken and timeframe in accordance with Condition 162, on an annual basis which is to be submitted within the AEMR. The report shall include all the matters required within subsections of Condition 162.**

- (p) Schedule 2 – is amended by the insertion of the following new Condition 164, after Condition 163 as shown in **bold and underlined** as follows:

#### **Access to Information**

**164. From the commencement of MOD 2, the Applicant shall make the following information publicly available on its website as is required by the consent:**

- a) a copy of all current statutory approvals;
- b) a copy of the Environmental Management Plan required under this approval;
- c) a copy of any Annual Environmental Management Report including monitoring results (over the last 5 years);
- d) a copy of any Independent Environmental and Odour Audit, and the Applicant's response to the recommendations in any audit;
- e) report of the complaints and the response/action taken to resolve the complaint as required by Condition 162;
- f) a copy of the minutes of the Community Liaison Committee Meetings; and
- g) any other matter required by the Director-General.

- (q) Schedule 2 – is amended by the insertion of Appendix A – Figure 1 as shown in **bold and underlined** as follows:

**Appendix A – Figure 1 Detail of Evaporation Dam 3 prepared by Veolia Environmental Services (Australia) Pty Ltd – Revision F dated 21 July 2016.**

End of Modifications to DA 31-02-99



# 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 Development Consent referred to in Schedule 1, subject to the conditions outlined in Schedule 2.



Chris Ritchie  
Director  
Industry Assessments

Sydney 22 DECEMBER 2017

### SCHEDULE 1

Development Consent (DA 31-02-99), granted by the then Minister for Urban Affairs and Planning on 30 November 2000 for the Woodlawn Waste Management Facility at 619 Collector Road, Tarago, in the Goulburn Mulwaree and Palerang local government areas.

### SCHEDULE 2

This consent is modified as follows:

#### In Schedule 2: Conditions of Development Consent

1. Insert the following definitions in alphabetical order:

Coffer Dam	means coffer dam in ED1 as referred to in MOD 3
ED1	Evaporation Dam No. 1 as referred to in MOD 3 (the unlined portion of ED1)
LTP	Leachate Treatment Plant as referred to in MOD 3
ML	Megalitres
MOD 3	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</i> , dated May 2017 and Response to Submissions dated October 2017

2. Delete the definition for "Water NSW" and insert the following definition in alphabetical order:

Water NSW	NSW manager and protector of the Sydney Drinking Water Catchment
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3. Delete Condition 1 and replace with the following:

***Adherence to Terms of DA and EIS***

1. The Development shall be carried out in accordance with:
- (a) DA No. 31-02-99;
  - (b) the EIS prepared by Woodward-Clyde Pty Ltd, dated February 1999;
  - (c) the EIS Supplementary Report prepared by Woodward-Clyde Pty Ltd, dated March 1999;
  - (d) the Amended DA and accompanying information prepared by Woodward-Clyde, dated 12 November 1999;
  - (e) Modification Application DA31-02-99 Mod1 and accompanying Environmental Assessment titled "*Modification to DA31-02-99 to Receive Regional Council Waste at the Woodlawn Bioreactor*", prepared by Veolia Environmental Services, dated February 2010 and the associated '*Response to Submissions*' prepared by Veolia Environmental Services dated 12 April 2010;
  - (f) Modification Application DA 31-02-99 MOD 2; and
  - (g) Modification Application DA 31-02-99 MOD 3.

4. Delete Condition 18 and replace with the following:

***Conditions Compliance Reports***

18. The Applicant shall submit to the Secretary, the EPA, DPI Water, Water NSW and Council Conditions Compliance Reports as follows:
- (a) at least one month prior to the commencement of construction works for the purposes of landfilling, or within such period as otherwise agreed to by the Secretary;
  - (b) at least one month prior to the commencement of construction works for the purposes of the intermodal transfer facility, or within such period as otherwise agreed to by the Secretary;
  - (c) every two years following the date of commencement of construction for the purposes of landfilling activity, or within such period as otherwise agreed to by the Secretary.

*Note: the requirements of (a) and (b) above may be satisfied by the same report if appropriate.*

5. Delete Condition 19 and replace with the following:

***Independent Environmental Audits***

19. Every three years following the date of this consent, or at periods otherwise agreed to by the Secretary, and until such time as agreed to by the Secretary, the Applicant shall arrange for an independent audit of the environmental performance of the development. The audits shall:
- (a) be conducted pursuant to ISO 14010 – Guidelines and General Principles for Environmental Auditing, ISO 14011 – Procedures for Environmental Monitoring and any specifications of the Secretary;
  - (b) be conducted by a suitably qualified independent person approved by the Secretary;
  - (c) assess compliance with the requirements of this consent;
  - (d) assess the implementation of the LEMPs and review the effectiveness of the environmental management of the development; and
  - (e) be carried out at the Applicants' expense.

The audits shall be submitted to the Secretary, the EPA, DPI Water, Water NSW, Council and the Community Liaison Committee.

The Applicants shall comply with all reasonable requirements of the Secretary in respect of any measures arising from or recommended by the audits and within such time as agreed to be the Secretary.

6. Delete Condition 55 and replace with the following:

55. The Applicant shall prepare a Leachate Contingency Management Plan (LCMP) that addresses, but not necessarily be limited to the following matters:
- (a) the removal of leachate from the waste and its treatment to remove any metals or compounds at concentrations which may inhibit the biological processes of the bioreactor landfill, prior to discharging the leachate back into the landfilled waste;
  - (b) the storage of leachate external to the landfilled waste in the mine void;



- (c) method/s for removing leachate from the waste and disposing of it to ensure effective operation of the bioreactor landfill and to ensure that the groundwater gradient directs groundwater flows into the mine void;
  - (d) an estimate of the full costs for implementing each aspect of this plan (*EPA GTA*);
  - (e) contingency measures in the event that the leachate storage dams reach capacity sooner than anticipated, this should include the provision for the construction and operation of additional lined coffer dams in ED1 to the satisfaction of the EPA; and
  - (f) contingency measures should the modelling as required by Condition 70G demonstrate that the dams will overflow.
7. Insert new conditions 55A and 55B immediately after Condition 55 as follows:
- 55A. Prior to operation of the LTP, or as otherwise agreed by the Secretary, the Applicant must submit a revised LCMP to the satisfaction of the Secretary. The LTP is not permitted to operate until the revised LCMP is approved by the Secretary. The plan must be prepared in consultation with the EPA and Water NSW and include contingency measures should the leachate dams fill sooner than anticipated.
- 55B. Should additional coffer dam(s) be required to be constructed as part of the LCMP the dam(s) must be designed constructed and maintained in accordance with Condition 70L to 70P.
8. Delete conditions 66A and 66B and replace with the following:
- 66A. Prior to the operation of the LTP or as otherwise agreed by the Secretary, the Applicant must submit a revised Stormwater Management Plan to the satisfaction of the Secretary. The plan must be prepared in consultation with the EPA and Water NSW and include the changes to stormwater management in MOD 2 and MOD 3, in accordance with the requirements of Condition 66.
- 66B. Prior to the operation of the LTP or as otherwise agreed by the Secretary, the Applicant must submit a revised Management Plan for ED3N, ED3S, ED3S-S and the Coffier Dam to the satisfaction of the Secretary. The LTP is not permitted to operate until the revised management plan is approved by the Secretary. The plan must be prepared in consultation with the EPA and Water NSW and include the changes to water and leachate management in MOD 2 and MOD 3, in accordance with the requirements of Condition 70. The plan must be documented in the LEMP.
9. Insert new Condition 66C immediately after Condition 66B as follows:
- 66C. Should any additional coffer dams in ED1 be required, the Applicant must submit revised management plans in accordance with conditions 70 and 70B 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 LEMP.
10. Delete Condition 70 and replace with the following:
- ED3N, ED3S and ED3S-S and Coffier Dam(s) – Management
70. The Applicant must prepare a management plan for ED3N, ED3S, ED3S-S and coffer dam(s), ED1, the LTP and pipeline to ensure that:
- (a) each dam is lined in consultation with Water NSW and to the satisfaction of the EPA and maintained to prevent leakage from the dams in order to protect groundwater and surface water;
  - (b) a monitoring and inspection program is implemented including installation of monitoring bores, a review of monitoring data and six-monthly inspections to evaluate the integrity of the barrier and to assess if leakage from the dam is occurring;
  - (c) adequate capacity is retained in ED3N, ED3S and coffer dam(s) to meet the environmental performance requirements in condition 58;
  - (d) measures are identified to maintain adequate capacity within a suitable time period after receiving water from a rainfall event;
  - (e) there is an emergency plan for the management of leachate in excess of the capacity of ED3N, ED3S and coffer dam(s);
  - (f) the sources of leachate that are collected or received in ED3N, ED3S and coffer dam(s) are identified;
  - (g) the quantity of leachate from each source that reports to ED3 is monitored and compared in graphical format with rainfall data;
  - (h) ED3N is emptied of effluent from the existing leachate system by 31 December 2022;
  - (i) all pipelines which transfer leachate and treated leachate are monitored to ensure leaks do not occur;
  - (j) the operational details of the LTP include:

- (i) the leachate quality targets;
  - (ii) a description of the performance indicators that would be used to judge the performance of the LTP;
  - (iii) a description of the management measures that would be implemented to manage the operational impacts of the LTP including the chemical storage area and sludge skip bin;
  - (iv) contingency measures to manage any unpredicted impacts such as the bioreactor membrane failing; and
  - (v) the roles, responsibility, authority and accountability of all key personnel involved in the environmental management of the LTP.
- (k) An updated plan including MOD 2 and MOD 3 and must be documented in the LEMP.
11. Insert the following note after Condition 70C:
- Note: Conditions pertaining to ED2 will be triggered only in the event of transfer of water from ED3S to ED2.*
12. In Condition 70D, delete the word "Proponent" and replace with the word "Applicant".
13. Delete Condition 70F and replace with the following:
- 70F. The Long-term Leachate Management Strategy must be operational no later than 30 September 2018 or as otherwise agreed by the Secretary.
14. Insert the following new conditions after Condition 70F:

#### Future Modelling

- 70G. Prior to the operation of the LTP, the Applicant must provide modelling which demonstrates that the evaporation dams will not overflow for the period between 2029 to 2058. Should overflow be predicted, the Applicant must provide contingency measures in accordance with Condition 55A.

#### Leachate Treatment Plant

- 70H. The Applicant 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.
- 70I. All run-off during construction must be contained on the site in accordance with Condition 58.
- 70J. 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.
- 70K. The sludge skip bin must be bunded and covered to prevent contaminants entering surface water.

#### Coffer Dam(s)

- 70L. Treated leachate must not be discharged to any part of ED1, other than within lined coffer dam(s).
- 70M. 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.
- 70N. The Applicant 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 70M. The Applicant 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).
- 70O. Prior to the discharge of treated leachate into any coffer dam(s) in ED1, the Applicant 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 Applicant 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.



- 70P. Prior to the discharge of treated leachate to any coffer dam(s), the Applicant must install a leak detection system which monitors flows along all pipelines which carry leachate. Any leaks must be investigated, contained and rectified.
- 70Q. Only treated leachate from the LTP is permitted to be stored within coffer dam(s) in ED1, unless otherwise agreed to by the Secretary.
- 70R. 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 70M to 70P 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 70; 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.
- 70S. No interaction between the treated leachate in the coffer dam(s) and the mine stormwater in ED1 is permitted.
- 70T. Within six months of commissioning the LTP and annually thereafter, unless otherwise agreed to by the Secretary, the Applicant 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

- 70U. The volume of mine water stored in ED1 must be no more than 10 ML by 31 December 2023.

#### ED3N

- 70V. ED3N must be emptied of effluent from the existing leachate system by 31 December 2022.
- 70W. Prior to discharging treated leachate into sections of ED3N from the LTP, the Applicant 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.
- 70X. Should the integrity assessment identified in Condition 70W find that the liner in ED3N is not adequate for treated leachate storage, the Applicant must submit management options to the Secretary, the EPA and Water NSW which will be adopted to rectify any integrity issues.
- 70Y. The Applicant 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 70X are acceptable.

15. Delete Condition 131(a) and replace with the following:

- (a) location of bore holes around the perimeter of the mine void, ED3 and the coffer dam(s) including the depth at which they are screened to enable access of groundwater;

16. Delete Condition 132 and replace with the following:

Surface Water Monitoring

132. The Applicant shall prepare and implement a surface water-monitoring program to monitor the environmental performance of the construction, operation and rehabilitation of the development on surface water. The surface water-monitoring program must be documented in the LEMP.

*Note: The specific requirements of the monitoring program will be stipulated in the EPL.*

The program must include details on:

- (a) Monitoring locations including:
  - (i) Crisps Creek;
  - (ii) Allianoyonyiga Creek;
  - (iii) coffer dam(s);
  - (iv) ED1;
  - (v) ED3N;
  - (vi) ED3S;
  - (vii) ED3S-S;
  - (viii) ED2;
  - (ix) Downstream receiving waters of ED2;
  - (x) All treated leachate effluent discharge lines;
  - (xi) Discharge line from ED3S to ED2;
  - (xii) rainwater collected in the mine void;
- (b) monitoring methodologies and standards to be employed;
- (c) monitoring frequency based on rainfall events and creek flow assessment;
- (d) an assessment of the contribution of surface water pollution from the Woodlawn Waste Management Facility as distinct from the Woodlawn Mine site;
- (e) the quantity of water relocated from the mine void into ED3;
- (f) the quantity of water relocated from ED3 into the mine void;
- (g) the chemical composition of liquids added to the landfilled waste;
- (h) the chemical composition of treated leachate in the effluent discharge line and the coffer dam;
- (i) the chemical composition of leachate within ED3S-S;
- (j) the quantity of water that reports to ED3, including its sources;
- (k) the quantity of water removed and/or discharged from ED3, including its destination;
- (l) the total quantity of water contained in ED3;
- (m) the quantity of water transferred from ED3S into ED2;
- (n) the quantity of water that reports to ED2 from Woodlawn Waste Management Facility, including its sources;
- (o) the total quantity of water contained in ED2;
- (p) the total quantity of treated leachate contained in the coffer dam(s);
- (q) the total quantity of water contained in ED1;
- (r) the parameters and substances that are proposed to be monitored, including sampling and analysis frequencies;
- (s) reporting and assessment of results; and
- (t) opportunities to integrate the monitoring program with other monitoring programs in the vicinity.

*Notes: The EPA will require a broader range of elements and compounds to be monitored for a short period, prior to waste being received at the site. This comprehensive monitoring will then be required to be conducted on an annual basis.*

*The monitoring of ED3 will initially be at weekly intervals and will be reviewed 12 months after commencement of landfilling operations.*

*The Monitoring of ED2 will initially be at weekly intervals once the transfer of stormwater from ED3S to ED2 has commenced and will be reviewed 12 months after commencement of MOD 2.*

*Conditions pertaining to ED2 will be triggered only in the event of transfer of water from ED3S to ED2.*

17. Delete conditions 159 and 159A and replace with the following:

159. In relation to matters identified in Condition 158, as part of the LEMP, the Applicant must prepare an Emergency Management Plan. The Plan shall address, but not necessarily be limited to:
- (a) identification of threats to the environment and/or public health that could arise in relation to the construction and operation of Waste Management Facility and Intermodal Facility including the



- transportation of waste. These threats may include fire (waste transportation or within the landfill), overflow, dam failure, power or other utility failure, natural disaster etc;
- (b) identification of strategies to minimise and ameliorate the effects of any groundwater surface water pollution identified from the groundwater and surface water monitoring programs;
- (c) an estimate of the cost of implementation;
- (d) actions to effectively respond to the disruption of operations so the risk of pollution is minimised;
- (e) a communications strategy for alerting relevant agencies and the potentially affected community in the event of the disruption to operations leading to significant pollution;
- (f) ensuring that all relevant employees are familiar with the emergency management plan; and
- (g) 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'.

The Applicant should regularly review the adequacy of the plan obtaining expert advice as required.

*Note: When developing this emergency plan, opportunities may exist to integrate with the Woodlawn Mine site emergency management plans.*

- 159A. Prior to the operation of the LTP, or within such further period as the Secretary may agree, the Applicant shall prepare and submit a revised Emergency Management Plan to the Secretary for approval. The plan shall include the site changes in MOD 2 and MOD 3, in accordance with the requirements of Condition 159.
18. Insert new conditions 159B and 159C immediately after Condition 159A as follows:

#### **Safety Management System**

- 159B. 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**

- 159C. 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.

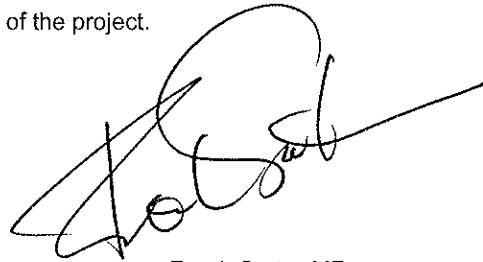
# Project Approval

## Section 75J of the *Environmental Planning and Assessment Act 1979*

I approve the project application referred to in schedule 1, subject to the conditions in schedules 2 to 4.

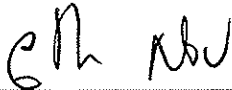
These conditions are required to:

- prevent and/or minimise adverse environmental impacts;
- set standards and performance measures for acceptable environmental performance;
- require regular monitoring and reporting; and
- provide for the ongoing environmental management of the project.



Frank Sartor MP  
Minister for Planning

Sydney



2007

### SCHEDULE 1

**Application No:**

06\_0239

**Proponent:**

Veolia Environmental Services Pty Ltd

**Approval Authority:**

Minister for Planning

**Land:**

The parts of the following lots within the red boundary marked on the figure in Appendix 1:

- Lot 1 DP 241092;
- Lots 33, 34, 69 & 97 DP 754919; and
- Lot 4 DP 830765

**Project:**

Woodlawn Alternative Waste Technology Project

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## TABLE OF CONTENTS

<b>DEFINITIONS</b>	<b>3</b>
<b>ADMINISTRATIVE CONDITIONS</b>	<b>4</b>
Obligation to Minimise Harm to the Environment	4
Terms of Approval	4
Limits on Approval	4
Management Plans/Monitoring Programs	4
Structural Adequacy	4
Demolition	4
Operation of Plant & Equipment	4
<b>SPECIFIC ENVIRONMENTAL CONDITIONS</b>	<b>5</b>
Waste Management	5
Construction, Operation & Rehabilitation	6
Soil, Water & Leachate Management	7
Odour	8
Air Quality	8
Noise	9
Meteorological Monitoring	10
Transport	10
Visual Amenity	11
<b>ENVIRONMENTAL MANAGEMENT, REPORTING &amp; AUDITING</b>	<b>12</b>
Environmental Management Plan	12
Reporting	12
Independent Environmental Audit	13
Access to Information	13
<b>APPENDIX 1: CONCEPTUAL LAYOUT OF PROJECT</b>	<b>14</b>
<b>APPENDIX 2: STATEMENT OF COMMITMENTS</b>	<b>15</b>
<b>APPENDIX 3: MAP WOODLAWN LANDFILL &amp; CRISPS CREEK INTERMODAL TERMINAL</b>	<b>17</b>
<b>APPENDIX 4: CONCEPTUAL WATER MANAGEMENT SYSTEM</b>	<b>18</b>

## DEFINITIONS

AEMR	Annual Environmental Management Report
BCA	Building Code of Australia
Crisps Creek Intermodal Terminal	The intermodal terminal off Bungendore Road near Tarago, approved by the Minister for Urban Affairs and Planning (DA 31-02-99) on 27 November 2000 (see figure in Appendix 3)
Day	The period from 7am to 6pm on Monday to Saturday, and 8am to 6pm on Sundays and public holidays
DECC	Department of Environment and Climate Change
Department	Department of Planning
Director-General	Director-General of the Department of Planning, or delegate
EA	Environmental Assessment titled <i>Woodlawn Alternative Waste Technology Project</i> , dated November 2006, and the Response to Submissions dated May 2007
EP&A Act	<i>Environmental Planning and Assessment Act 1979</i>
EP&A Regulation	<i>Environmental Planning and Assessment Regulation 2000</i>
EPL	Environment Protection Licence issued under the <i>Protection of the Environment Operations Act 1997</i>
Evening	The period from 6pm to 10pm
Garden Waste	Source separated garden or related organic waste
Hazardous Waste	See definition POEO Act
Heavy Vehicle	Any vehicle with a gross vehicle mass of 5 tonnes or more
Industrial Waste	See definition POEO Act
Land	The whole of a lot, or contiguous lots owned by the same landowner, in a current plan registered at the Land Titles Office at the date of this approval
LGA	Local government area
Minister	Minister for Planning, or delegate
Mixed Waste	Municipal solid waste or commercial waste that has been classified as inert or solid waste under schedule 1 of the POEO Act
Night	The period from 10pm to 7am on Monday to Saturday, and 10pm to 8am on Sundays and Public Holidays
POEO Act	<i>Protection of the Environment Operations Act 1997</i>
Privately-owned Land	Land not owned by the Proponent or its related companies, or where a private agreement does not exist between the Applicant and the land owner
Proponent	Veolia Environmental Services Pty Ltd
SCA	Sydney Catchment Authority
Site	Land to which the project application applies (see schedule 1)
Statement of Commitments	Proponent's commitments shown in Appendix 2
Woodlawn Landfill	The waste management facility off Collector Road approved by the Minister for Urban Affairs and Planning (DA 31-02-99) on 27 November 2000 (see figure in Appendix 3)

## **SCHEDULE 2 GENERAL ADMINISTRATIVE CONDITIONS**

### **Obligation to Minimise Harm to the Environment**

1. The Proponent shall implement all practicable measures to prevent and/or minimise any harm to the environment that may result from the construction, operation, and/or rehabilitation of the project.

### **Terms of Approval**

2. The Proponent shall carry out the project generally in accordance with the:
  - (a) EA;
  - (b) statement of commitments; and
  - (c) conditions of this approval.

*Note: The layout of the project is shown in Appendix 1.*

3. If there is any inconsistency between the above, then the conditions of this consent shall prevail to the extent of the inconsistency.
4. The Proponent shall comply with any reasonable requirement/s of the Director-General arising from the Department's assessment of:
  - (a) any reports, plans, programs or correspondence that are submitted in accordance with this approval; and
  - (b) the implementation of any actions or measures contained in these reports, plans, programs or correspondence.

### **Limits on Approval**

5. Waste operations may only take place for 25 years from the commencement of operations on site.

*Note: Under this approval the Proponent is required to decommission the project upon the completion of waste operations, and rehabilitate the site to the satisfaction of the Director-General. Consequently, this approval will continue to apply in all other respects other than the right to conduct waste operations on site until the site has been rehabilitated to a satisfactory standard.*

### **Management Plans/Monitoring Programs**

6. With the approval of the Director-General, the Proponent may submit any management plan or monitoring program required by this approval on a progressive basis.

### **Structural Adequacy**

7. The Proponent shall ensure that any new buildings and structures, and any alterations or additions to existing buildings and structures, are constructed in accordance with the relevant requirements of the BCA.

#### *Notes:*

- Under Part 4A of the EP&A Act, the Applicant is required to obtain construction and occupation certificates for any building works.
- Part 8 of the EP&A Regulation sets out the detailed requirements for the certification of project.

### **Demolition**

8. The Proponent shall ensure that all demolition work is carried out in accordance with AS 2601-2001: *The Demolition of Structures*, or its latest version.

### **Operation of Plant and Equipment**

9. The Proponent shall ensure that the plant and equipment used on site, or in connection with the project, is:
  - (a) maintained in a proper and efficient condition; and
  - (b) operated in a proper and efficient manner.

## SCHEDULE 3 SPECIAL ENVIRONMENTAL CONDITIONS

### WASTE MANAGEMENT

#### Limits on Inputs

1. The Proponent shall only receive waste on site that has been railed to the Crisps Creek Intermodal Terminal from the Sydney Metropolitan Area. However, with the written approval of the Director-General the Proponent may receive waste on site from LGAs outside the Sydney Metropolitan Area. In seeking this approval, the Proponent shall submit a detailed assessment of the potential impacts associated with the receipt of this waste, including the potential traffic and traffic noise impacts.
2. The Proponent shall not receive:
  - (a) more than:
    - 240,000 tonnes of mixed waste a year on site; and
    - 40,000 tonnes of garden waste on site; and
  - (b) waste on site that is:
    - contaminated by chemicals and/or pathogens that would not be rendered harmless by operations on site, or that may constitute a health or environmental risk, including clinical and related waste and diseased carcasses; and
    - classified as hazardous waste or industrial waste.

#### Waste Acceptance & Screening

3. The Proponent shall:
  - (a) implement suitable procedures to:
    - ensure that the site does not accept wastes that are prohibited; and
    - screen incoming waste loads; and
  - (b) ensure that:
    - all waste sludges and wastes that are controlled under a tracking system have the appropriate documentation prior to acceptance at the site; and
    - staff receive adequate training in order to be able to recognise and handle any hazardous or other unapproved waste.

#### Limits on Outputs

4. Except for the following, the Proponent shall dispose of all outputs produced on site to the Woodlawn Landfill:
  - (a) recyclables extracted and delivered off-site for resource recovery purposes;
  - (b) industrial waste and hazardous waste extracted from the input waste stream and lawfully disposed of off-site; and
  - (c) compost output products:
    - approved for use under the POEO Act and Regulations; or
    - for use in mine rehabilitation at the adjoining Woodlawn mine that:
      - have been composted in accordance with *Australian Standard AS 4454-2003: Composts, Soil Conditioners and Mulches*;
      - comply with the limits for physical contaminants set out in Table 3.1 of *Australian Standard AS 4454-2003*; and
      - comply with the chemical acceptance concentration thresholds for Restricted Use (Grade C) in the NSW Environmental Guidelines: *Use and Disposal of Biosolid Products* (1997).

*Note: This approval does not alter the restrictions on input rates in the current approval for the Woodlawn Landfill in any way.*

5. Within 3 years of commissioning the plant on site, or as directed by the Director-General, the Proponent shall:
  - (a) review the criteria in condition 4(c) above in consultation with the DECC with a view to moving to approved criteria under the POEO Act and Regulations or establishing criteria that are specifically appropriate for the use in mine rehabilitation at the adjoining Woodlawn mine; and
  - (b) comply with any revised criteria set under the POEO Act and Regulations or by the Director-General.

## Monitoring

6. The Proponent shall prepare and implement a Waste Monitoring Program for the project to the satisfaction of the Director-General. This program must:
- (a) be prepared in consultation with DECC by a suitably qualified and experienced expert; and
  - (b) include a suitable program to monitor the:
    - quantity, type and source of waste received on site; and
    - quantity, type and quality of the outputs produced on site.

## CONSTRUCTION, OPERATION, & REHABILITATION

### Leachate Management System

7. The Proponent shall:
- (a) ensure the floor of the waste processing building (see figure in Appendix 1) is comprised of a concrete pad that is at least 10cm thick;
  - (b) install a leachate barrier system on any surface to be used for the direct impoundment of leachate, such as the composting and other outdoor areas;
  - (c) ensure that this leachate barrier system:
    - has a re-compacted clay or modified soil layer that is at least 60 centimetres thick and has an in situ coefficient of permeability of less than  $1 \times 10^{-7}$  m/s, or some other suitable liner approved by DECC; and
    - drains to the leachate dams at a minimum gradient of 0.5%;
  - (d) collect all leachate in the leachate dams to prevent it from escaping from the site to surface water, groundwater or subsoil;
  - (e) treat all water from waste storage or handling areas, including the organic waste storage area, or that has been contaminated by leachate, as leachate;
  - (f) ensure that the leachate dams:
    - are capable of accepting a 1 in 10 year, 24 hour duration storm event without overflowing;
    - have a re-compacted clay or modified soil layer that is at least 90 centimetres thick and an in situ coefficient of permeability of less than  $1 \times 10^{-9}$  m/s, or some other suitable liner approved by DECC;
    - have sides with a slope of less than 1 vertical to 3 horizontal; and
    - have a 0.5 metre freeboard at all times.

### Windrow Management

8. The Proponent shall manage windrow composting operations in accordance with AS 4454-2003: *Composts, Soil Conditioners and Mulches*, Appendix N, Best practice guidelines for Composting Systems, or other practices approved by the DECC.

### Litter Control

9. The Proponent shall:
- (a) implement suitable measures to prevent the unnecessary proliferation of litter both on and off site; and
  - (b) inspect and clear the site (and if necessary, surrounding area) of litter on a daily basis.

### Pest, Vermin & Noxious Weed Management

10. The Proponent shall:
- (a) implement suitable measures to manage pests, vermin and declared noxious weeds on site; and
  - (b) inspect the site on a regular basis to ensure that these measures are working effectively, and that pests, vermin or noxious weeds are not present on site in sufficient numbers to pose an environmental hazard, or cause the loss of amenity in the surrounding area.

*Note: For the purposes of this condition, noxious weeds are those species subject to an order declared under the Noxious Weed Act 1993.*

### Fire Management

11. The Applicant shall:
- (a) implement suitable measures to minimise the risk of fire on site;
  - (b) extinguish any fires on site promptly; and
  - (c) maintain adequate fire-fighting capacity on site.

## Rehabilitation & Closure

12. Upon the cessation of waste operations, the Proponent shall decommission the project and rehabilitate the site to the satisfaction of the Director-General.
13. The Proponent shall prepare and implement a Rehabilitation and Closure Plan for the project to the satisfaction of the Director-General. This plan must be:
  - (a) be prepared in consultation with DECC, SCA, Palerang Council and Goulburn Mulwaree Council by a suitably qualified and experienced expert whose appointment has been approved by the Director-General;
  - (b) be submitted to the Director-General for approval at least 6 months prior to the eighth independent environmental audit of the project (see schedule 4), or as directed otherwise by the Director-General;
  - (c) define the objectives and criteria for rehabilitation and closure;
  - (d) investigate options for the future use of the site;
  - (e) describe the measures that would be implemented to achieve the specified objectives and criteria for rehabilitation and closure;
  - (f) calculate the cost of implementing these measures; and
  - (g) describe how the performance of these measures would be monitored over time.

## SOIL, WATER & LEACHATE MANAGEMENT

### Discharge Limits

14. Except as may be expressly provided in an EPL for the project, the Proponent shall comply with section 120 of the *Protection of the Environment Operations Act 1997*.

### Bunding

15. The Proponent shall store all chemicals, fuels and oils used on site in appropriately banded areas, with impervious flooring and sufficient capacity to contain 110% of the largest container stored within the bund. These bunds shall be designed and installed in accordance with the requirements of all relevant Australian Standards, and/or DECC's Environmental Protection Manual *Technical Bulletin Bunding and Spill Management*.

### Soil, Water and Leachate Management Plan

16. The Proponent shall prepare and implement a Soil, Water and Leachate Management Plan for the project to the satisfaction of the Director-General. This plan must:
  - (a) be submitted to the Director-General for approval prior to carrying out any development on site;
  - (b) be prepared by a suitably qualified and experienced expert;
  - (c) be prepared in consultation with the DECC and SCA; and
  - (d) include:
    - a site water balance;
    - an erosion and sediment control plan;
    - a stormwater management scheme;
    - a surface water, groundwater and leachate monitoring program; and
    - a surface water, groundwater and leachate response plan.
17. The site water balance must:
  - (a) identify the source of all water collected or stored on the site, including rainfall, stormwater and groundwater;
  - (b) include details of all water use on site and any discharges;
  - (c) describe the measures that would be implemented to minimise water use on site.
18. The erosion and sediment control plan must:
  - (a) be consistent with the requirements in the latest version of *Managing Urban Stormwater: Soils and Construction* (Landcom);
  - (b) identify the activities on site that could cause soil erosion and generate sediment; and
  - (c) describe what measures would be implemented to:
    - minimise soil erosion and the transport of sediment to downstream waters, including the location, function and capacity of any erosion and sediment control structures; and
    - maintain these structures over time.

19. The stormwater management scheme must:
  - (a) be consistent with the guidance in the latest version of *Managing Urban Stormwater: Council Handbook* (DEC);
  - (b) be capable of capturing and storing all rainfall and stormwater runoff from areas where waste (including organic outputs) is handled up to an including a 1:100 year, 24 hour duration storm event; and
  - (c) include the detailed plans for the proposed surface water management system (shown conceptually in Appendix 4).
20. The surface water, groundwater, and leachate monitoring program must:
  - (a) be generally consistent with the guidance in DECC's *Environmental Guidelines for Composting & Related Organics Processing Facilities*; and
  - (b) include:
    - baseline data;
    - details of the proposed monitoring network; and
    - the parameters for testing and respective trigger levels for action under the surface water, groundwater and leachate response plan (see below).
21. The surface water, groundwater and leachate response plan must:
  - (a) include a protocol for the investigation, notification and mitigation of any exceedances of the respective trigger levels; and
  - (b) describe the array of measures that could be implemented to respond to any surface or groundwater contamination that may be caused by the development.

## ODOUR

22. The Proponent shall not cause or permit the emission of offensive odours at any residence on privately owned land.

*Note: Offensive odour is defined under Section 129 of the POEO Act.*

## AIR QUALITY

### Impact Assessment Criteria

23. The Proponent shall ensure that dust generated by the project does not cause additional exceedances 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 particulate matter*

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

*Table 2: Short term impact assessment criteria for particulate matter*

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

*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 <sup>2</sup> /month	4 g/m <sup>2</sup> /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.*

## Monitoring

24. The Proponent shall prepare and implement an Air Quality Monitoring Program for the project, in consultation with DECC, and to the satisfaction of the Director-General. This program must be submitted to the Director-General for approval prior to construction, and include an air monitoring protocol for evaluating compliance with the air quality impact assessment criteria in this consent.

*Note: Initially, this program may concentrate on monitoring the dust deposition impacts of the project. However, in time, it may be expanded to include other pollutants.*

## NOISE

### Noise Impact Assessment Criteria

25. The Applicant shall ensure that the noise generated by the development does not exceed the limits in Table 4.

Table 4: Noise impact assessment criteria dB(A)

Receiver	Day/Evening/Night L <sub>Aeq</sub> (15 minute)
Residences on privately-owned land (during construction)	40
Residences on privately-owned land (during operations)	35

*Notes:*

- a) Noise from the development is to be measured at the most affected point or within the residential boundary, or at the most affected point within 30 metres of a dwelling (rural situations) where the dwelling is more than 30 metres from the boundary, to determine compliance with the L<sub>Aeq</sub>(15 minute) noise limits in the above table. Where it can be demonstrated that direct measurement of noise from the project is impractical, the DECC may accept alternative means of determining compliance (see Chapter 11 of the NSW Industrial Noise Policy). The modification factors in Section 4 of the NSW Industrial Noise Policy shall also be applied to the measured noise levels where applicable.
- b) The noise emission limits identified in the above table apply under meteorological conditions of:
- wind speeds of up to 3 m/s at 10 metres above ground level; or
  - temperature inversion conditions of up to 3°C/100m, and wind speeds of up to 2 m/s at 10 metres above ground level.

### Road Traffic Noise Impact Assessment Criteria

26. The Proponent shall ensure that the traffic noise generated by the project on the road between the Crisps Creek Intermodal Terminal and the site access road does not exceed 60 dBA L<sub>Aeq</sub>(1 hour) at any residence on privately-owned land.

*Note: Traffic noise generated by the project is to be measured in accordance with the relevant procedures in the DECC's Environmental Criteria for Road Traffic Noise.*

## Operating Hours

27. The Proponent shall comply with the operating hours in Table 5.

Table 5: AWT Site Operating Hours

Activity	Day	Hours
Construction	Monday - Friday	7 am – 6 pm
	Saturday	7 am – 1 pm
	Sunday & Public Holidays	Nil
Waste Receipt	Monday - Saturday	6 am – 7 pm
Indoor Operations	Monday - Saturday	6 am – 10 pm
Outdoor Operations & Product Dispatch	Monday – Friday	6 am – 7 pm
Emergency	Monday - Sunday	Anytime



## Monitoring

28. Within 3 months of the commencement of operations, or as directed by the Director-General, the Proponent shall:
- (a) commission a suitably qualified and experienced expert whose appointment has been approved by the Director-General to audit the noise generated by the project during normal operations against the noise and road traffic noise criteria in this approval;
  - (b) send a copy of the audit report to the Department and DECC within 7 days of the completion of the audit.

## METREOLOGICAL MONITORING

29. For the life of the project, the Proponent shall ensure that there is a suitable meteorological station in the vicinity of the site that complies with the requirements in the *Approved Methods for Sampling of Air Pollutants in New South Wales* guideline.

## TRANSPORT

### Road Works

30. Prior to carrying out any development on site, the Proponent shall:
- (a) construct an BAL/BAR type bitumen sealed intersection at the site entrance; and
  - (b) upgrade Collector Road from the site entrance to the entrance of the Woodlawn Landfill to provide a 9 metre wide sealed pavement and matching formation, to the satisfaction of Palerang Council.

*Note: These road works must comply with the relevant standards in Palerang Council's Aus Spec# Development Specification Series.*

### On-site Parking & Access

31. The Proponent shall:
- (a) provide sufficient car parking on site to accommodate the parking demand of the project;
  - (b) construct a sealed road from Collector Road to the gatehouse/waste reception area; and
  - (c) ensure that the:
    - car parking is constructed in accordance with the relevant requirements of *Australian Standard AS 2890.1-2004*; and
    - internal road network is constructed in accordance with the relevant requirements of *Australian Standard AS 2890.2-2002*.

### Road Maintenance Contributions

32. The Proponent shall contribute to both Palerang Council and Goulburn Mulwaree Council for the maintenance of the relevant sections of Collector and Bungendore Road that are used by the project. These contributions are to be paid quarterly and must be in general accordance with any relevant Section 94 Contributions Plan.

*Note: In the event that one of the Council's does not have a relevant Section 94 Contributions Plan, then the adjoining Council's plan should be used instead.*

### Heavy Vehicle Restrictions

33. Unless the Director-General approves otherwise (see condition 1 in schedule 3), the Proponent shall ensure that:
- (a) all heavy vehicles associated with the project use the designated heavy vehicle route between the site and the Crisps Creek Intermodal Terminal;
  - (b) heavy vehicles entering or leaving the site with loads are suitably covered; and
  - (c) heavy vehicles leaving the site are cleaned of materials that may fall on the road before they are allowed to leave the site.

### **Transport Code of Conduct**

34. The Proponent shall prepare and implement a Transport Code of Conduct for the project to the satisfaction of the Director-General. This protocol must:
- (a) be submitted to the Director-General for approval prior to construction;
  - (b) be prepared in consultation with PC and GMC; and
  - (c) describe the measures that would be implemented to:
    - minimise the impacts of the development on the local and regional road network, including traffic noise; and
    - ensure that no heavy vehicles use the designated heavy vehicle route during school bus operations on the route.

### **VISUAL AMENITY**

#### **Lighting**

35. The Applicant shall ensure that all external lighting associated with the development:
- (a) does not create a nuisance to surrounding properties or roadways; and
  - (b) complies with *AS 4282(INT) 1995 – Control of Obtrusive Effects of Outdoor Lighting*.

## SCHEDULE 4 ENVIRONMENTAL MANAGEMENT, REPORTING & AUDITING

### ENVIRONMENTAL MANAGEMENT PLAN

1. The Proponent shall prepare and implement an Environmental Management Plan for the project to the satisfaction of the Director-General. This plan must:
  - (a) be prepared in consultation with the DECC by a suitably qualified and experienced expert;
  - (b) be submitted to the Director-General for approval prior to commencement of operations;
  - (c) describe in detail the management measures that would be implemented to address:
    - the relevant matters referred to in Section 4 and Appendix B of the DECC's *Environmental Guidelines for Composting & Related Organics Processing Facilities*; and
    - the conditions of this approval;
  - (d) include a copy of:
    - the management plans and monitoring programs required in Schedule 3 of this approval;
    - a quality assurance program for the design and installation of the leachate management system has been developed in accordance with *Australian Standard AS 3905.2*;
  - (e) describe the procedures that would be implemented to:
    - keep the local community and relevant agencies informed about the operation and environmental performance of the project;
    - receive, handle, respond to, and record complaints;
    - resolve any disputes that may arise during the course of the project; and
    - respond to emergencies; and
  - (f) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the project.

### REPORTING

#### Compliance Reporting

2. Prior to carrying out any development on site, and then operations, the Proponent shall certify in writing to the Director-General that it has complied with all the relevant conditions of this approval.

#### Incident Reporting

3. Within 24 hours of detecting an exceedance of the limits/performance criteria in this approval, or the occurrence of an incident that causes (or may cause) harm to the environment, the Proponent shall notify the Department and DECC of the exceedance/incident.
4. Within 6 days of notifying the Department and DECC, the Proponent shall provide a written report to the Department and DECC that:
  - (a) describes the date, time, and nature of the incident;
  - (b) identifies the cause, or likely cause, of the incident; and
  - (c) describes what action has been taken to date address the incident, and what actions are proposed to be implemented in the future to either address the consequences of the incident or avoid a recurrence of the incident.

#### Annual Reporting

5. Every year from the date of this approval, unless the Director-General agrees otherwise, the Proponent shall submit an AEMR to the Director-General and relevant agencies. The AEMR shall:
  - (a) identify the standards and performance measures that apply to the development;
  - (b) include a summary of the complaints received during the past year, and compare this to the complaints received in previous years;
  - (c) include a summary of the monitoring results for the development during the past year;
  - (d) include an analysis of these monitoring results against the relevant:
    - impact assessment criteria;
    - monitoring results from previous years; and
    - predictions in the EIS;
  - (e) identify any trends in the monitoring results over the life of the development;
  - (f) identify any non-compliance during the previous year; and
  - (g) describe what actions were, or are being taken to ensure compliance.

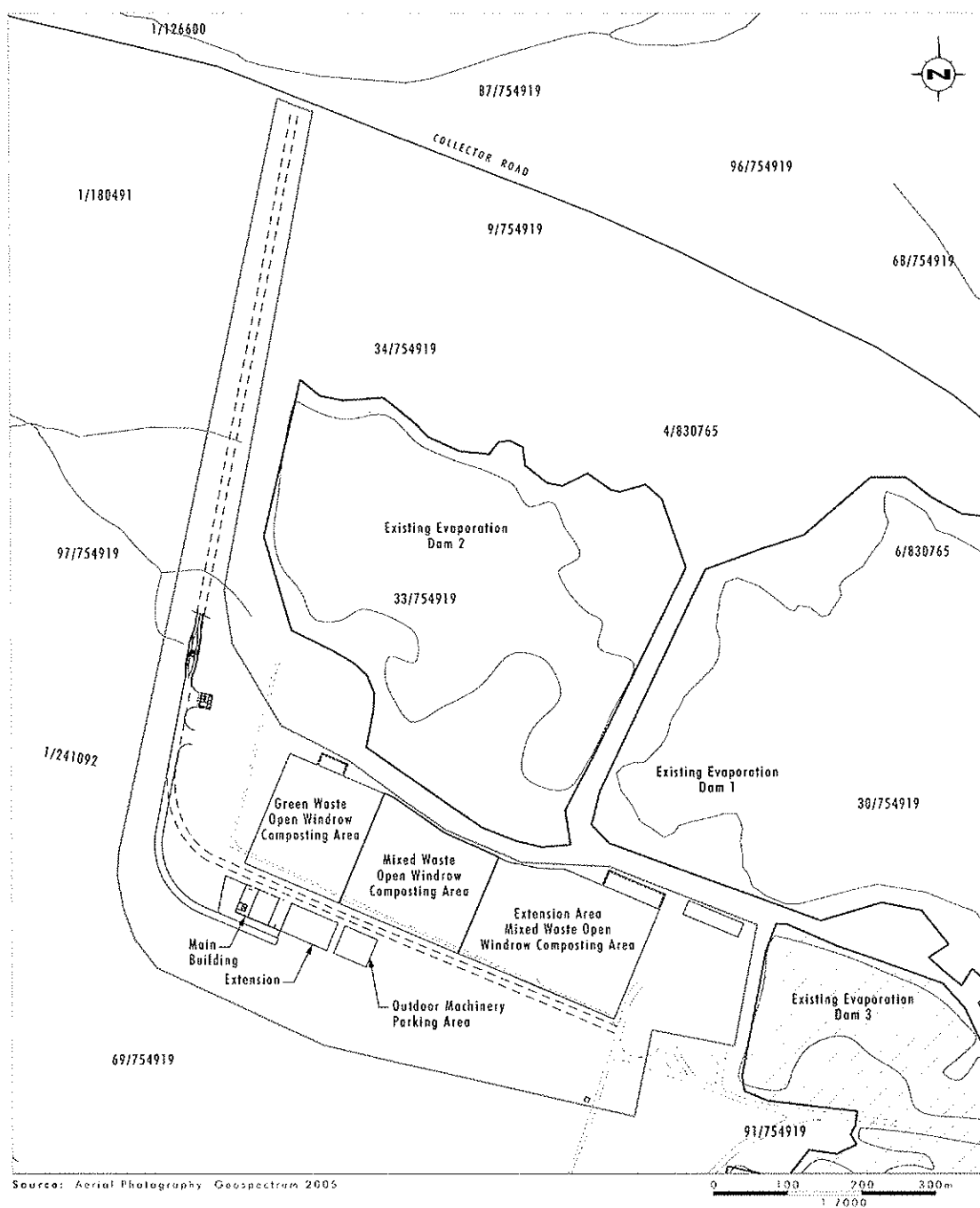
## **INDEPENDENT ENVIRONMENTAL AUDIT**

6. Within 2 years of the commencement of operations, and every 3 years thereafter, unless the Director-General directs otherwise, the Proponent shall commission and pay the full cost of an Independent Environmental Audit of the project. This audit must:
  - (a) be carried out by a suitably qualified, experienced and independent audit team containing a waste management specialist, whose appointment has been endorsed by the Director-General;
  - (b) include consultation with DECC;
  - (c) assess the environmental performance of the project, and its effects on the surrounding environment;
  - (d) determine whether the project is complying with the relevant standards, performance measures and statutory requirements;
  - (e) review the adequacy of the Environmental Management Plan for the project, compliance with the requirements of this approval, and any other licences and approvals; and, if necessary,
  - (f) recommend measures or actions to improve the environmental performance of the project, and/or any plan/program required under this approval.
7. Within 3 months of commissioning this audit, or as otherwise agreed by the Director-General, the Proponent shall submit a copy of the audit report to the Director-General, with a response to any recommendations contained in the audit report.
8. Within 3 months of submitting a copy of the audit report to the Director-General, the Proponent shall review and if necessary revise the plans/programs required under this approval to the satisfaction of the Director-General.

## **ACCESS TO INFORMATION**

9. Within 1 month of the approval of any plan or program required under this consent, or the completion of any independent audit or AEMR required under this approval, the Proponent shall:
  - (a) ensure that a copy of the relevant documents is made publicly available on the Proponent's website; and
  - (b) provide a copy of the relevant document/s to any interested party upon request.

## APPENDIX 1: CONCEPTUAL SITE LAYOUT



### Legend

- Woodlawn AWI Project Development Footprint
- ▨ Bioreactor EP Licence Area
- ▭ Existing Evaporation Dam
- Drainage Lines

Extent of Woodlawn Alternative  
Waste Technology Project

File Name (A4): V1/2022\_091.dgn

## APPENDIX 2: STATEMENT OF COMMITMENTS

(Excluding those commitments which are directly reflected in the conditions of approval)

If development consent for the project is granted and acted upon, Veolia will commit to the following operational controls:

### Waste Received at AWT Facility

- 3.1.1 The AWT facility will only receive Municipal Solid Waste, commercial waste and green waste. Each container of waste delivered to the AWT facility will be weighed, recorded and tipped onto the facility floor where it will be visually inspected prior to being processed in the AWT facility. Any material that is not suitable for recycling, composting or other reuse will be separated from the remainder of the waste stream and stored for subsequent disposal at a suitably approved waste handling facility. The remaining material that is not recycled, composted or otherwise reused will be transported to the Woodlawn Bioreactor for disposal.
- 3.1.2 An approval for the transport of green waste from Sydney to the WOCOG facility will be obtained under the *Plant Diseases Act 1924* prior to green waste from Sydney being received at the WOCOG facility.
- 3.1.3 Prior to applying any compost output from the WASP facility to land:
- Veolia will seek the approval of the DPI through an amendment of the Woodlawn MOP for the application of WASP compost to land as a part of the rehabilitation of Woodlawn mine site; and
  - Veolia will seek an exemption from the landfill levy under the *Protection of the Environment Operations Act 1997* for the application of WASP compost to land as a part of the rehabilitation of Woodlawn mine site. If an exemption cannot be obtained, compost will be applied to land in accordance with the provisions of the *Protection of the Environment Operations Act 1997*, or compost will be landfilled in the Woodlawn Bioreactor.
- 3.1.4 Residual from the WASP facility will not be used as daily cover in the Woodlawn Bioreactor without prior approval from the DECC.
- 3.1.5 Alternative fuel will not be used at any offsite facility without prior approval from the DECC. If approval cannot be granted for the use of alternative fuel, this product will be disposed of in the Woodlawn Bioreactor.
- 3.1.6 Disposal of material from the AWT facility in the Woodlawn Bioreactor will be carried out in accordance with the consent for the Woodlawn Bioreactor.

### Soil and Water Management

- 3.6.1 Prior to commencement of construction, sediment and erosion controls as set out in Section 6.2.1.3 of the EA will be implemented.
- 3.6.2 Clean water diversion drains will be constructed upslope of the AWT facility as shown on Figure 6.4 of the EA.
- 3.6.3 Culverts with sufficient capacity to convey peak discharge from a 1 in 100 year Average Recurrence Interval storm event will be constructed under the access road at location shown on Figure 6.1 of the EA.
- 3.6.4 The stormwater dam to be constructed at the eastern end of the facility will be designed to accept runoff from the 1 in 100 year 24 hour duration Average Recurrence Interval event. The dam will be constructed to discharge to ED 2 as shown Figure 6.1 of the EA during storm events of greater magnitude.
- 3.6.5 Leachate dams will be located as shown on Figure 6.2 of the EA and will be lined with a suitable leachate barrier system. The system will utilise compacted clay, modified soil or other approved liners. If compacted clay or modified soil is used, liners will be a minimum of 900 mm thick and will have a maximum permeability of  $1 \times 10^{-9}$  m/s.

### Site Rehabilitation after Decommissioning

- 3.7.1 At the end of the life of the operation, infrastructure will be removed from the site and the site will be regraded and planted with pasture species unless an alternate and approved use is identified.

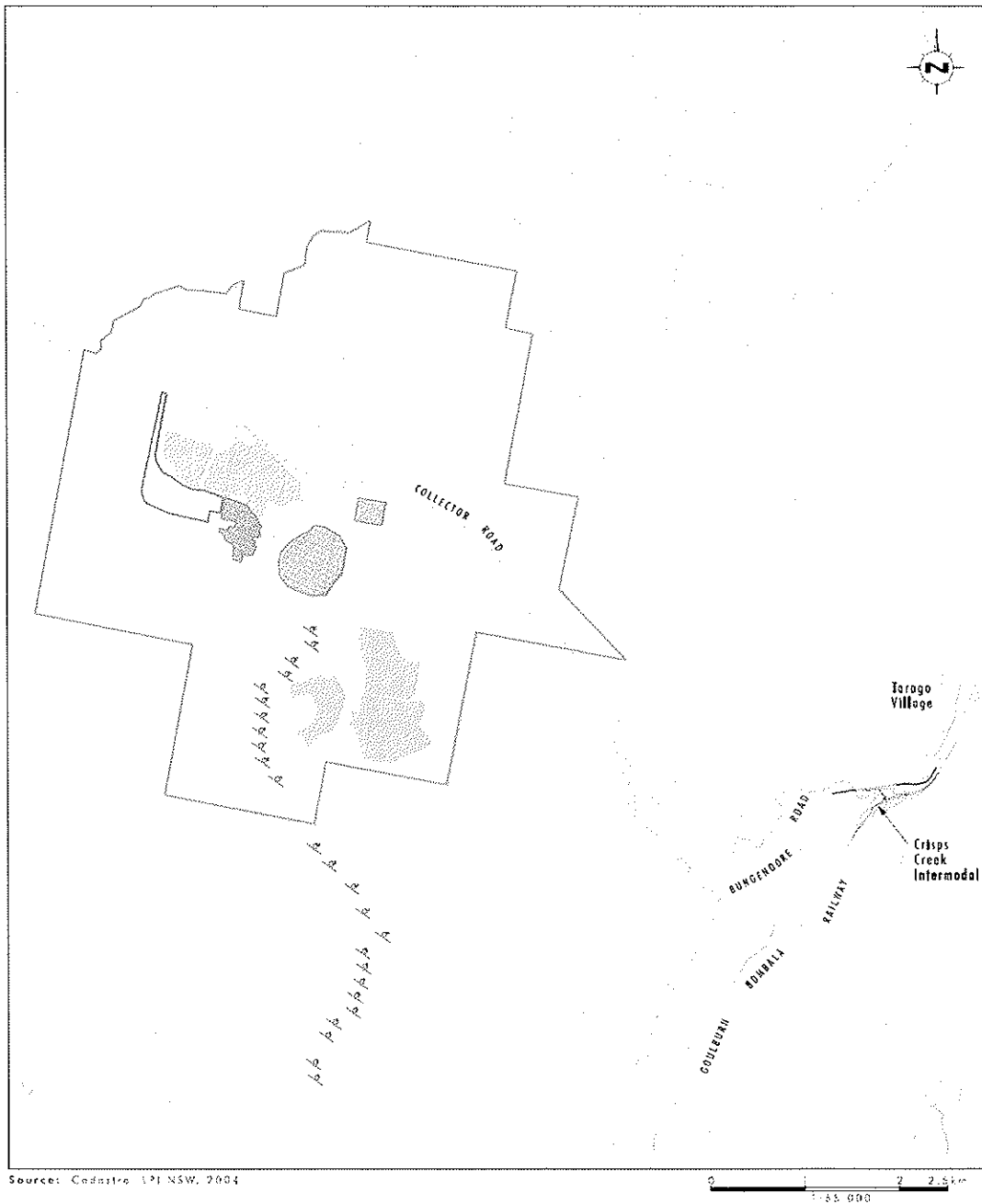
### **Traffic and Road Management**

- 3.8.2 A new access road will be constructed connecting the AWT facility to Collector Road in approximately the location shown on Figure 2.1 of the EA. The road will be surfaced with a two coat seal.
- 3.8.3 The intersection of the AWT facility access road and Collector Road will be constructed to comply with the requirements of a RTA's Road Design Guide Type BA intersection as described in Section 6.7.3 of the EA. These works will be undertaken prior to the commencement of haulage of waste from Crisps Creek Intermodal facility to the AWT facility.

### **Reporting**

- 3.9.4 Veolia will prepare and circulate an annual community newsletter providing an overview of the AWT facility operation and the Company's performance against its commitments as stated in the EA.

### APPENDIX 3: MAP SHOWING THE WOODLAWN LANDFILL & CRISPS CREEK INTERMODAL TERMINAL



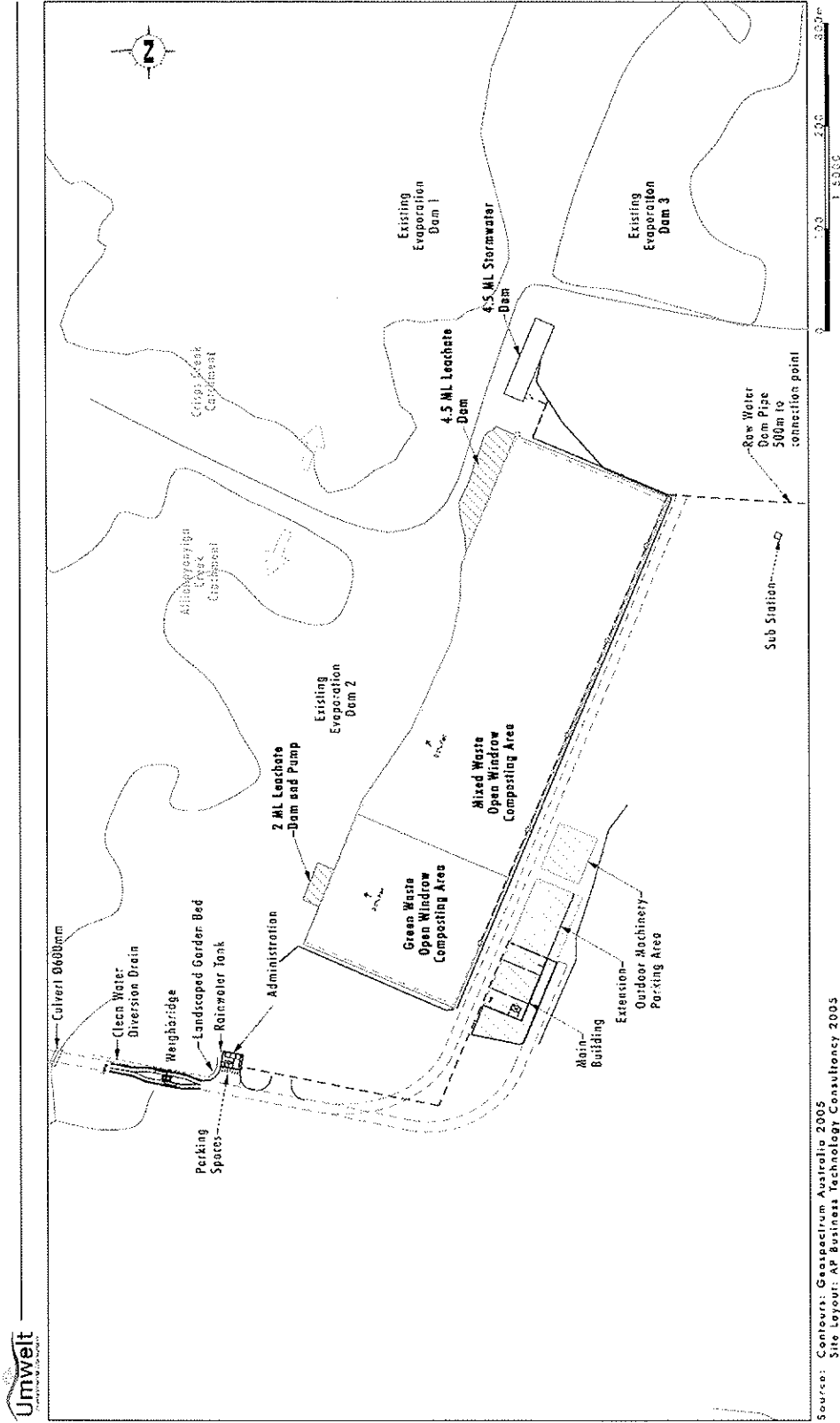
#### Legend

- Woodlawn AWE Project Development Footprint
- Bioreactor EP Licence Area
- SWE 20 Boundary
- Windfarm
- Evaporation Dam
- Raw Water Dam
- Boilings Dam

Location of Woodlawn Bioreactor  
and Crisps Creek Intermodal



# APPENDIX 4: CONCEPTUAL WATER MANAGEMENT SYSTEM



Sources: Contours: Geospectrum Australia 2005  
 Site Layout: AP Business Technology Consultancy 2005

## Legend

- Proposed Access Road
- Clean Water Diversion Drain
- Raw Water Pipe
- Leachate Rectification Pipe
- Bunding
- Open Window Wastewater Connection Pumps
- Pumps
- Concrete Pad
- Clay liner (X=120mm/s)
- Clay liner (X=150mm/s)

## Conceptual Water Management System

# Notice of Modification

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

As delegate of the Minister for Planning under delegation executed on 14 September 2011, the Planning Assessment Commission of New South Wales (the Commission) hereby approve the modification of the project application referred to in Schedule 1, subject to the conditions outlined in Schedule 2.



**Joe Woodward PSM**  
Member of the Commission

Sydney

17 June 2014

### SCHEDULE 1

<b>Application No:</b>	Project Approval (MP 06_239), granted by then Minister for Planning on 6 November 2007
<b>Proponent:</b>	Veolia Environmental Services (Australia) Pty Ltd
<b>Approval Authority:</b>	Minister for Planning
<b>Land:</b>	- Lot 1 DP 241092; - Lots 33, 34, 69 & 97 DP 754919; and - Lot 4 DP 830765.
<b>Project:</b>	Woodlawn Alternative Waste Technology Project
<b>Modification:</b>	MP 06_0239 MOD 1 to amend: - site layout and infrastructure; - waste processing technology; and - hours of operation.

### SCHEDULE 2

This project approval is modified by:

1. Replacing the definitions of 'Department' and 'EA' in the definitions list after Schedule 1 as follows:

Department	Department of Planning and Environment
EA	Environmental Assessment titled <i>Woodlawn Alternative Waste Technology Project</i> , dated November 2006, and the Response to Submissions dated May 2007, as modified by MP 06_0239 MOD 1

2. Deleting the definitions of 'DECC' and 'Director-General' in the definitions list after Schedule 1.
3. Inserting new definitions of 'EPA' and 'Secretary' in the definitions list after Schedule 1 in alphabetical order as follows:

EPA	Environment Protection Authority
-----	----------------------------------

Secretary the Secretary of the Department, or nominee

4. Replacing all references to 'DECC' in the approval with 'EPA'.
5. Replacing all references to 'Director-General' in the approval with 'Secretary'.
6. Replacing Condition 2 in Schedule 2 with the following:

#### **Terms of Approval**

2. The Proponent shall carry out the project generally in accordance with the:
  - (a) EA;
  - (b) Statement of Commitments;
  - (c) modification application MP 06\_0239 MOD 1, accompanying Environmental Assessment dated 20 January 2014 and Response to Submissions dated 6 March 2014 prepared by Veolia Environmental Services (Australia) Pty Ltd; and
  - (d) conditions of this approval.

*Note: The layout of the project is shown in Appendix 1.*

7. Replacing Condition 4 after Condition 3 in Schedule 3 with the following:

#### **Limits on Outputs**

4. Except for the following, the Proponent shall dispose of all outputs produced on site to the Woodlawn Landfill:
  - (a) recyclables extracted and delivered off-site for resource recovery purposes;
  - (b) restricted solid waste and hazardous waste extracted from the input waste stream and lawfully disposed of off-site; and
  - (c) compost output products approved for use under the POEO Act and Regulations.

*Note: This approval does not alter the restrictions on input rates in the current approval for the Woodlawn Landfill in any way.*

8. Replacing Condition 22 after Condition 21 in Schedule 3 with the following:

22. The Applicant shall ensure that the project does not cause or permit the emission of any offensive odour (as defined in the POEO Act).

9. Replacing Condition 27 after Condition 26 in Schedule 3 with the following:

27. The Proponent shall comply with the operating hours in Table 5, unless otherwise agreed by the Secretary.

*Table 5: AWT Site Operating Hours*

<b>Activity</b>	<b>Day</b>	<b>Hours</b>
<i>Construction</i>	Monday - Friday	7 am – 6 pm
	Saturday	7 am – 1 pm
	Sunday & Public Holidays	Nil
<i>Operations</i>	Monday - Saturday	6 am – 10 pm
<i>Emergency</i>	Monday - Sunday	Anytime

*Note: Operation of BRS Drums and associated infrastructure is permitted to occur over 24 hours*

10. Replacing the heading before Condition 29 after Condition 28 in Schedule 3 with the following:

**Meteorological Monitoring**

11. Deleting Condition 30 after Condition 29 in Schedule 3 and inserting the words 'Deleted'.
12. Replacing Condition 31 after Condition 30 in Schedule 3 with the following:
31. The Proponent shall:
- (a) provide sufficient car parking on site to accommodate the parking demand of the project;
  - (b) ensure that the:
    - car parking is constructed in accordance with the relevant requirements of *Australian Standard AS 2890.1-2004*; and
    - internal road network is constructed in accordance with the relevant requirements of *Australian Standard AS 2890.2-2002*.
13. Replacing Condition 32 after Condition 31 in Schedule 3 with the following:

**Road Maintenance Contributions**

32. The Proponent shall contribute to both Palerang Council and Goulburn Mulwaree Council for the maintenance of the relevant sections of Collector and Bungendore Road that are used by the project. These contributions are to be paid quarterly, are subject to indexation and must be in general accordance with any relevant Section 94 Contributions Plan.

*Notes:*

- *In the event that one of the Council's does not have a relevant Section 94 Contributions Plan, then the adjoining Council's plan should be used instead.*
  - *Goulburn Mulwaree Council's current applicable contributions plan (at 4 April 2014) is the 'Goulburn Mulwaree Section 94 Development Contributions Plan 2009 Amendment No. 2'. This plan is subject to indexation each year and is available on Council's website.*
  - *Contributions which are directly associated with the local road network shall be separate (in addition to) any royalties Veolia Trust contributes to local community projects.*
14. Inserting a new Condition 34A after Condition 34 in Schedule 3 as follows:
- 34A. The Proponent shall prepare and implement a Waste Receipt and Vehicle Control Plan for the project to the satisfaction of the Secretary. The plan shall:
- (a) be approved by the Secretary prior to the commencement of operation;
  - (b) be prepared in consultation with the EPA;
  - (c) include details of the infrastructure, systems and procedures, that will be implemented to ensure compliance with the requirements of Section 88 of the POEO Act and Clauses 12 and 15 of the *Protection of the Environment (Waste) Regulation 2005*;
  - (d) include details of all vehicle entry and exit points, including emergency exits; and
  - (e) be incorporated into the Operational Environmental Management Plan for the project.
15. Inserting a new Condition 36 after Condition 35 in Schedule 3 as follows:
36. The Proponent shall construct all new buildings associated with the project using materials and colours that complement the surrounding landscape.

16. Inserting a new Condition 37 after Condition 36 in Schedule 3 as follows:

**Landscaping Management**

37. The Proponent shall prepare and implement a Landscaping Management Plan for the project to the satisfaction of the Secretary. The plan shall:
- (a) be approved by the Secretary prior to the commencement of construction;
  - (b) detail landscaping and vegetation treatments for the project with particular attention to minimising the visibility of the project from residences and public vantage points including Collector Road; and

- (c) describe the on-going measures that would be implemented to maintain landscaping and vegetation on the site for the life of the project.

17. Replacing Appendix 1 and Appendix 2 with the following:

[illegible]

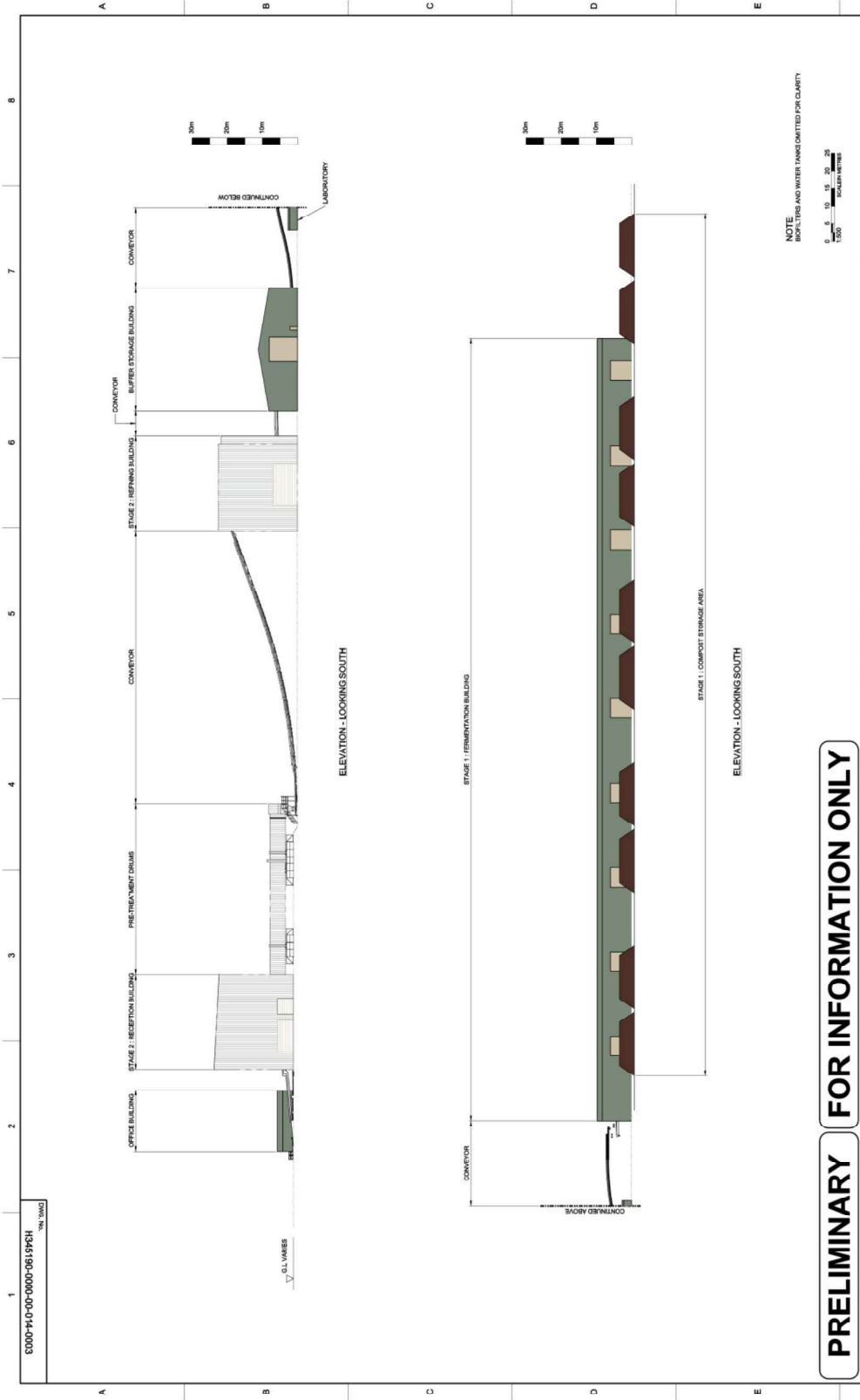
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**PRELIMINARY FOR INFORMATION ONLY**

VEOLIA WASTEWATER SERVICES		HATCH		WOODLAWN MBT FACILITY	
PROJECT WIDE SITE LAYOUT		ELEVATION LOOKING SOUTH		SCALE: 1:500 (AS SHOWN)	
DRAWING No. H345190-0000-00-014-0003		DATE: 2013/11/11		PROJECT No. H345190-0000-00-014-0003	
PROJECT WIDE SITE LAYOUT		ELEVATION LOOKING SOUTH		SCALE: 1:500 (AS SHOWN)	
DRAWING No. H345190-0000-00-014-0003		DATE: 2013/11/11		PROJECT No. H345190-0000-00-014-0003	
PROJECT WIDE SITE LAYOUT		ELEVATION LOOKING SOUTH		SCALE: 1:500 (AS SHOWN)	
DRAWING No. H345190-0000-00-014-0003		DATE: 2013/11/11		PROJECT No. H345190-0000-00-014-0003	
PROJECT WIDE SITE LAYOUT		ELEVATION LOOKING SOUTH		SCALE: 1:500 (AS SHOWN)	
DRAWING No. H345190-0000-00-014-0003		DATE: 2013/11/11		PROJECT No. H345190-0000-00-014-0003	







## APPENDIX 2 – STATEMENT OF COMMITMENTS

Reference No.	Environmental and Operational Controls
<b>Waste Received at the Development</b>	
1	The Development will only receive Municipal Solid Waste, commercial waste and green waste. Each container of waste delivered to the Development will be weighed, recorded and tipped into the Development's receival area where it will be visually inspected prior to being processed in the MBT facility. Any material that is not suitable for recycling, composting or other reuse will be separated from the remainder of the waste stream and stored for subsequent disposal at a suitably approved waste handling facility. The remaining material that is not recycled, composted or otherwise reused will be transported to the Woodlawn Bioreactor for disposal.
2	Veolia will maintain a permit issued by Department of Primary Industries (DPI), under Section 16 of the Plant Disease Act1924, allowing the movement of solid waste (including source segregated green waste) from Sydney to the Woodlawn Bioreactor and the Development and the use of compost for mine rehabilitation.
3	Compost derived from mix waste will be produced to satisfy the physical and chemical contaminant thresholds specified in the General and Site Specific Resource Recovery Exemptions, in accordance with Clause 51 and 51A of the POEO (Waste) Regulations for the application of any compost output from the Development to land.  Veolia has an agreement with TriAusMin regarding the use of compost for mine site rehabilitation and will continue to work with TriAusMin to ensure relevant amendments are made to the Woodlawn Mining Operations Plan (MOP) with respect to the use of compost for mine rehabilitation.
4	Residual from the Development will not be used as daily cover in the Woodlawn Bioreactor without prior approval from the EPA.
5	Alternative fuel derived from the Development will not be used at any offsite facility without prior approval from the EPA.
6	Disposal of material from the Development in the Woodlawn Bioreactor will be carried out in accordance with the consent for the Woodlawn Bioreactor.
<b>Soil and Water Management</b>	
7	Prior to commencement of construction, sediment and erosion controls as set out in Section 6.2.1.3 of the original EA (Unwelt, 2006) will be implemented.
8	Clean water diversion drains will be constructed to achieve the revised drainage requirements for the Development, as shown in Figure 2.1.2 of the modification EA (Veolia, 2013).
9	A stormwater dam will be constructed to accept runoff from the 1 in 100 year 24 hour duration Average Recurrence Interval event, as shown in Figure 2.1.2 of the modification EA (Veolia, 2013).
10	A single leachate aeration pond will be sized to store run off from a storm of magnitude 1 in 10 year Average Recurrence Interval (ARI) 24-hour duration rainfall event, located as shown in Figure 2.1.2 of the modification EA (Veolia, 2013).
<b>Site Rehabilitation after Decommissioning</b>	
11	At the end of the life of the operation, infrastructure will be removed from the site and the site will be regraded and planted with pasture species unless an alternate and approved use is identified.
<b>Traffic and Road Management</b>	
12	The Development would utilise the existing Woodlawn Bioreactor site access intersection on Collector Road, as shown in Figure 2.1.1 of the modification EA (Veolia, 2013).
<b>Reporting</b>	
13	Veolia will prepare and circulate an annual community newsletter providing an overview of the Development's operation and the Company's performance against its statement of commitments.
<b>Air Quality</b>	

14	<p>Veolia will incorporate the following odour control measures within the Development:</p> <ul style="list-style-type: none"> <li>▪ prepare enclosed processing areas</li> <li>▪ Odour control system (biofilters)</li> </ul> <p>Additional odour control measures shall also include:</p> <ul style="list-style-type: none"> <li>▪ automated aeration technology for accelerating the process of fermentation to achieve stability of organic matter; and</li> <li>▪ technology for enhancing fermentation and treating odour emissions from compost with the use of a cover system.</li> </ul>
<b>Greenhouse Gas</b>	
15	<p>Where practical, Veolia shall utilise the following control measures to minimise greenhouse gas emissions:</p> <ul style="list-style-type: none"> <li>▪ Regularly servicing all stationary plant and machinery within the Development.</li> <li>▪ Purchasing green power to offset electricity usage for the site.</li> <li>▪ Using sensor lighting and high efficiency lighting.</li> <li>▪ Turning off vehicles and/or plant and machinery when not in use.</li> <li>▪ Using B5 and E10 fuels within onsite vehicles and B5 blended diesel for stationary plant and equipment.</li> </ul>
<b>Visual Amenity</b>	
16	<p>Veolia shall endeavour to maintain the visual amenity of the local area with the following design measures:</p> <ul style="list-style-type: none"> <li>▪ Construction of new buildings using material and colours that complement the surrounding rural landscape.</li> <li>▪ Installation of external lighting associated with the Development that will not create nuisance to surrounding receivers and/or roadways and which complies with 'Control of Obstructive Effects of Outdoor Lighting' in accordance with the Project Approval visual amenity condition.</li> </ul>



# 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.



Anthea Sargeant  
Executive Director  
Key Sites and Industry Assessments

Sydney 9 April 2019

File: OBJ17/08916

### SCHEDULE 1

Project Approval (MP 06\_0239), granted by the former Minister for Planning on 6 November 2007 for Woodlawn Alternative Waste Technology Project at 619 Collector Road, Tarago in the Goulburn Mulwaree local government area.

### SCHEDULE 2

This approval is modified as follows:

1. Delete the definitions for DPI Water, Secretary and Sydney Catchment Authority and insert the following definitions in alphabetical order:

AQMP	Air Quality Management Plan
CEMP	Construction Environmental Management Plan
Conditions of this Approval	Conditions contained in Schedule 2 to 6 of this approval
Construction	The demolition and removal of buildings or works, the carrying out of works for the purpose of the development, including bulk earthworks, and erection of buildings and other infrastructure permitted by this approval
Council	Goulburn Mulwaree Council and Queanbeyan-Palerang Council
Department	Department of Planning and Environment
Development Layout	The plans at Appendices 1 and 5 of this approval
DoI L&W	Department of Industry – Lands & Water Division
EA	Environmental Assessment titled <i>Woodlawn Alternative Waste Technology Project dated November 2005</i> , and the Response to Submissions dated May 2007 as modified by MP 06_0239 MOD 1 and MOD 2
Earthworks	Bulk earthworks, site levelling, import and compaction of fill material, excavation for installation of drainage and services, to prepare the site for construction
ENM	Excavated Natural Material

Environment	Includes all aspects of the surroundings of humans, whether affecting any human as an individual or in his or her social groupings
EP&A Act	<i>Environmental Planning and Assessment Act 1979</i>
FRNSW	Fire & Rescue NSW
Incident	An occurrence or set of circumstances that causes or threatens to cause material harm and which may or may not be or cause a non-compliance. Note: "material harm" is defined in this approval
Land	Has the same meaning as the definition of the term in section 1.4 of the EP&A Act
Material Harm	Harm that: <ul style="list-style-type: none"> <li>a) involves actual or potential harm to the health or safety of human beings or to the environment that is not trivial, or</li> <li>b) results in actual or potential loss or property damage of an amount, or amounts in aggregate, exceeding \$10,000 (such loss includes the reasonable costs and expenses that would be incurred in taking all reasonable and practicable measures to prevent, mitigate or make good harm to the environment)</li> </ul>
MBT	Mechanical Biological Treatment
MBT Facility	The Woodlawn Mechanical Biological Treatment Facility off Collector Road approved by the Minister for Planning (MP 06_0239) on 6 November 2007
Minister	NSW Minister for Planning (or delegate)
Mitigation	Activities associated with reducing the impacts of the development prior to or during those impacts occurring
MOD 1	Modification application MP 06_0239 MOD 1, accompanying <i>Environmental Assessment</i> dated 20 January 2014 and <i>Response to Submissions</i> dated 6 March 2014 prepared by Veolia Environmental Services (Australia) Pty Ltd
MOD 2	Modified application titled <i>Modification of MP 06_0239 and MP 10_0012 to enable the construction and operation of a Solid Recovered Fuel (SRF) Processing Area within the Woodlawn Eco Precinct</i> prepared by SG Haddad Advisory and CW Strategic Planning Services dated July 2018 and <i>Response to Submissions</i> prepared by Veolia Environmental Services (Australia) Pty Ltd dated November 2018
Monitoring	Any monitoring required under this approval must be undertaken in accordance with section 9.40 of the EP&A Act
OEH	NSW Office of Environment and Heritage
OEMP	Operational Environmental Management Plan
Planning Secretary	Planning Secretary under the EP&A Act, or nominee
Project	Woodlawn Alternative Waste Technology Facility approved under MP 06_0239 and Woodlawn Solid Recovered Fuel Processing Area approved under MP 06_0239 MOD 1 and MP 06_0239 MOD 2
SRF	Solid Recovered Fuel
SRF Processing Area	The Woodlawn SRF Processing Area off Collector Road approved by the Executive Director, Key Sites and Industry Assessments (MP 06_0239 MOD 2)
VENM	Virgin Excavated Natural Material
Year	a period of 12 consecutive months

2. Delete all references to "Secretary" and replace with "Planning Secretary".

#### **In Schedule 2: General Administrative Conditions**

3. Delete Condition 2 and replace with the following:
  2. The Proponent shall carry out the project in accordance with the:
    - (a) Statement of Commitments;
    - (b) all written directions of the Planning Secretary;

- (c) MOD 1;
  - (d) MOD 2;
  - (e) the Development Layout in Appendices 1, 4 and 5; and
  - (f) conditions of this approval.
3. Insert new Condition 10 immediately after Condition 9 as follows:
    10. Schedule 4 of this approval continues to apply to the MBT Facility until the commencement of operation of the SRF Processing Area at which time Schedule 6 will apply to both the MBT Facility and the SRF Processing Area.
  4. Insert new Condition 11 immediately after Condition 10 as follows:
    11. Schedule 5 of this approval applies to construction and operation of the SRF Processing Area only.

#### **In Schedule 3: Specific Environmental Conditions**

5. Delete title of Schedule 3 Specific Environmental Conditions and replace with title of Schedule 3 Specific Environmental Conditions – Woodlawn Mechanical Biological Treatment Facility.

#### **In Schedule 4: Environmental Management, Reporting & Audit**

6. Delete title of Schedule 4 Environmental Management, Reporting & Auditing and replace with title of Schedule 4 Environmental Management, Reporting & Auditing – Woodlawn Mechanical Biological Treatment Facility.

#### **Insert new Schedule 5: Specific Environmental Conditions – Solid Recovered Fuel Facility**

7. Insert new Schedule 5: Specific Environmental Conditions – Solid Recovered Fuel Facility immediately after Schedule 4 as follows:

#### **SCHEDULE 5 SPECIFIC ENVIRONMENTAL CONDITIONS – SOLID RECOVERED FUEL PROCESSING AREA TRAFFIC AND ACCESS**

##### **Operating Conditions**

1. The Proponent must ensure:
  - (a) internal roads, driveways and parking (including grades, turn paths, sight distance requirements, aisle widths, aisle lengths and parking bay dimensions) associated with the Solid Recovered Fuel (SRF) Processing Area are constructed and maintained in accordance with the latest version of AS 2890.1:2004 Parking facilities Off-street car parking (Standards Australia, 2004) and AS2890.2:2002 Parking facilities Off-street commercial vehicle facilities (Standards Australia, 2002);
  - (b) the swept path of the longest vehicle entering and exiting the site, as well as manoeuvrability through the site, is in accordance with the relevant AUSTROADS guidelines;
  - (c) the SRF Processing Area does not result in any vehicles queuing on the public road network;
  - (d) heavy vehicles associated with the SRF Processing Area are not parked on local roads or footpaths in the vicinity of the site;
  - (e) all vehicles are wholly contained on site before being required to stop;
  - (f) all loading and unloading of materials is carried out on-site;
  - (g) all trucks entering or leaving the site with loads have their load covered and do not track dirt onto the public road network; and
  - (h) the proposed turning areas in the car park are kept clear of any obstacles, including parked cars, at all times.

#### **SOILS, WATER AND HYDROLOGY**

##### **Imported Soil**

2. The Proponent must:
  - (a) ensure that only VENM, ENM, or other material approved in writing by EPA is brought onto the site;
  - (b) keep accurate records of the volume and type of fill to be used; and
  - (c) make these records available to the Department upon request.

##### **Erosion and Sediment Control**

3. Prior to the commencement of any construction or other surface disturbance associated with the SRF Processing Area, the Proponent must install and maintain suitable erosion and sediment control measures on-site, in



accordance with the relevant requirements of the Managing Urban Stormwater: Soils and Construction – Volume 1: Blue Book (Landcom, 2004) guideline and the Erosion and Sediment Control Plan included in the CEMP required by Condition 30 of Schedule 4.

#### **Discharge Limits**

4. The SRF Processing Area must comply with section 120 of the POEO Act, which prohibits the pollution of waters; except as expressly provided for in an EPL.

#### **Stormwater Management System**

5. Prior to the commencement of construction, the Proponent must design a stormwater management system for the SRF Processing Area. The system must:
  - (a) be designed by a suitably qualified and experienced person(s) whose appointment has been endorsed by the Planning Secretary;
  - (b) be generally in accordance with the conceptual design in the EA and RTS for MP 06\_0239 MOD 2;
  - (c) be in accordance with applicable Australian Standards;
  - (d) ensure that the system capacity has been designed in accordance with Australian Rainfall and Runoff (Engineers Australia, 2016) and Managing Urban Stormwater: Council Handbook (EPA, 1997) guidelines;
  - (e) divert existing clean surface water around operational areas of the SRF Processing Area.

#### **AIR QUALITY**

##### **Dust Minimisation**

6. The Proponent must take all reasonable steps to minimise dust generated during all works authorised by this consent.
7. During construction, the Proponent must ensure that:
  - (a) exposed surfaces and stockpiles are suppressed by regular watering;
  - (b) all trucks entering or leaving the site with loads have their loads covered;
  - (c) trucks associated with the SRF Processing Area do not track dirt onto the public road network; and
  - (d) land stabilisation works are carried out progressively on-site to minimise exposed surfaces.
8. Trucks transporting waste to and from the SRF Processing Area must be covered at all times, except for when they are loading or unloading.

##### **Air Quality Discharges**

9. The SRF Processing Area is limited to process 50,000 tonnes per annum of residual waste from the MBT facility.
10. The SRF Processing Area must be designed and constructed so as not to preclude the retrofit of odour controls to the processing building and dryer exhaust.
11. The Proponent must install and operate equipment in line with best practice to ensure that the development complies with all load limits, air quality criteria/air emission limits and air quality monitoring requirements as specified in the EPL applicable to the site.

##### **Air Quality Management Plan**

12. Prior to the commencement of operation, the Proponent must prepare an Air Quality Management Plan (AQMP) for the SRF Processing Area to the satisfaction of the Planning Secretary. The AQMP must form part of the OEMP required by Condition 5 of Schedule 6. The AQMP must:
  - (a) be prepared by a suitably qualified and experienced person(s) whose appointment has been endorsed by the Planning Secretary;
  - (b) detail and rank all emissions from all sources of the development, including particulate emissions;
  - (c) describe a program that is capable of evaluating the performance of the operation and determining compliance with key performance indicators;
  - (d) identify the control measures that will be implemented for each emission source; and
  - (e) nominate the following for each of the proposed controls:
    - (i) key performance indicator;
    - (ii) monitoring method;
    - (iii) location, frequency and duration of monitoring;

- (iv) record keeping;
- (v) complaints register;
- (vi) response procedures; and
- (vii) compliance monitoring.

13. The Proponent must:

- (a) not commence operation until the Air Quality Management Plan required by Condition 12 is approved by the Planning Secretary; and
- (b) implement the most recent version of the Air Quality Management Plan approved by the Planning Secretary for the duration of development of the SRF Processing Area.

### Odour Management

14. The Proponent must carry out an Air Quality and Odour Audit of the SRF Processing Area within 3 months of the commencement of operation. The audit must:
- (a) be carried out by a suitably qualified and experienced expert;
  - (b) validate the emissions from the SRF Processing Area against air quality and odour emissions predictions made in the modification application;
  - (c) should the Proponent install dryer exhaust(s), assess particulate matter emissions from the dryer exhaust against limits set out in the Protection of the Environment Operations (Clean Air) Regulation 2010;
  - (d) review design and management practices of the SRF Processing Area against industry best practice for air emissions and odour management; and
  - (e) assess the need for any additional mitigation measures based on the findings of the audit and provide recommendations for their implementation.
15. Within 6 weeks of the completion of an Air Quality and Odour Audit, the Proponent shall submit a copy of the audit report to both the EPA and the Department with a response to any recommendations contained in the audit report.

### Air Quality and Odour Management

16. The Proponent must ensure that SRF Processing Area does not cause or permit the emission of any offensive odour (as defined in the POEO Act).
17. The Proponent must ensure that all SRF product is stored in a manner that maintains it in a dry state. If stored outside the processing building, storage must prevent water ingress.
18. SRF product must not be used as fuel on the premises.

### NOISE

#### Hours of Work

19. The Proponent must comply with the hours detailed in Table 6, unless otherwise agreed in writing by the Planning Secretary.

Table 6: Hours of Work

Activity	Day	Time
Earthworks and construction	Monday – Friday	7 am to 6 pm
	Saturday	8 am to 1 pm
	Sunday and Public Holidays	Nil
Operation	Monday – Saturday	6 am to 10 pm
	Sunday, Christmas Day and Good Friday	Nil

20. Works outside of the hours identified in Condition 19 may be undertaken in the following circumstances:
- (a) works that are inaudible at the nearest sensitive receivers;
  - (b) for the delivery of materials required outside these hours by the NSW Police Force or other authorities for safety reasons; or
  - (c) where it is required in an emergency to avoid the loss of lives, property or to prevent environmental harm.

### **Construction Noise Limits**

21. The development must be constructed to achieve the construction noise management levels detailed in the Interim Construction Guideline (DECC, 2009) (as may be updated or replaced from time to time). All feasible and reasonable noise mitigation measures must be implemented and any activities that could exceed the construction noise management levels must be identified and managed in accordance with the management and mitigation measures in the Appendix 6.

### **Road Traffic Noise**

22. Prior to the commencement of construction, the Proponent must prepare a Driver Code of Conduct and induction training for the development to minimise road traffic noise. The Proponent must update the Driver Code of Conduct and induction training for construction and operation and must implement the Code of Conduct for the life of the SRF Processing Area.

### **FIRE MANAGEMENT**

23. Prior to the commencement of construction, the final design of the development must be finalised in consultation with and to the satisfaction of Fire and Rescue (FRNSW) and include suitable provisions for special hazards by specifically addressing Clauses E1.10 and E2.3 of Volume One of the National Construction Code (NCC) Series.

### **WASTE MANAGEMENT**

#### **Waste Monitoring Program**

24. From the commencement of operation, the Proponent must implement a Waste Monitoring Program for the SRF Processing Area. The program must:
  - (a) be prepared by a suitably qualified and experienced person(s) prior to the commencement of operation;
  - (b) include suitable provision to monitor the:
    - (i) quantity, type and source of waste received on site; and
    - (ii) quantity, type and quality of the outputs produced on site; and
  - (c) ensure that:
    - (i) all waste that is controlled under a tracking system has the appropriate documentation prior to acceptance at the site; and
    - (ii) staff receive adequate training in order to be able to recognise and handle any hazardous or other prohibited waste including asbestos.

### **ENVIRONMENTAL MANAGEMENT**

#### **Waste receipt and Vehicle Flow Control Plan**

25. Prior to the commencement of construction of the SRF Processing Area, the Proponent must prepare a Waste Receipt and Vehicle Flow Control Plan in consultation with the EPA to the satisfaction of the Planning Secretary and the EPA. The Plan must show all vehicle entry and exit points, including emergency exits, where waste is transported into, out of, and between (a) the SRF Processing Area and (b) the adjoining Woodlawn Mechanical Biological Treatment facility and (c) the Woodlawn Bioreactor.

#### **Construction Environmental Management Plan**

26. The Proponent must prepare a Construction Environmental Management Plan (CEMP) for the SRF Processing Area in accordance with the requirements of Condition 1 of Schedule 6 and to the satisfaction of the Planning Secretary.
27. As part of the CEMP required under Condition 26 of Schedule 4 of this approval, the Proponent must include the following:
  - (i) Erosion and Sediment Control Plan; and
  - (ii) Community Consultation and Complaints Handling.
28. The Proponent must:
  - (a) not commence construction of the SRF Processing Area until the CEMP is approved by the Planning Secretary; and
  - (b) carry out the construction of the SRF Processing Area in accordance with the CEMP approved by the Planning Secretary and as revised and approved by the Planning Secretary.

#### **Insert new Schedule 6: Environmental Management, Reporting and Auditing – Site Wide**

8. Insert new Schedule 6: Environmental Management, Reporting and Auditing – Site Wide immediately after Schedule 5 as follows:

## SCHEDULE 6 ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING – SITE WIDE

### ENVIRONMENTAL MANAGEMENT

#### Management Plan Requirements

1. Management plans required under this approval must be prepared in accordance with relevant guidelines, and include:
  - (a) detailed baseline data where applicable;
  - (b) details of:
    - the relevant statutory requirements (including any relevant approval, licence or lease conditions);
    - any relevant limits or performance measures and criteria; and
    - the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the development or any management measures;
  - (c) a description of the measures to be implemented to comply with the relevant statutory requirements, limits, or performance measures and criteria;
  - (d) a program to monitor and report on the:
    - impacts and environmental performance of the development; and
    - effectiveness of the management measures set out pursuant to paragraph (c) above;
  - (e) a contingency plan to manage any unpredicted impacts and their consequences and to ensure that ongoing impacts reduce to levels below relevant impact assessment criteria as quickly as possible;
  - (f) a program to investigate and implement ways to improve the environmental performance of the development over time;
  - (g) a protocol for managing and reporting any:
    - incident and any non-compliance (specifically including any exceedance of the impact assessment criteria and performance criteria);
    - complaint;
    - failure to comply with statutory requirements; and
  - (h) a protocol for periodic review of the plan.

*Note: The Planning Secretary may waive some of these requirements if they are unnecessary or unwarranted for particular management plans.*

#### Revision of Strategies Plans and Programs

2. Within three months of:
  - (a) the submission of a Compliance Report under Condition 13 of Schedule 6;
  - (b) the submission of an incident report under Condition 8 of Schedule 6;
  - (c) the submission of an Independent Audit under Condition 16 of Schedule 6;
  - (d) the approval of any modification of the conditions of this approval; or
  - (e) the issue of a direction of the Planning Secretary under Condition 2(b) of Schedule 2 which requires a review.
3. The strategies, plans and programs required under this approval must be reviewed, and the Department must be notified in writing that a review is being carried out.
4. If necessary to either improve the environmental performance of the development, cater for a modification or comply with a direction, the strategies, plans and programs required under this approval must be revised, to the satisfaction of the Planning Secretary. Where revisions are required, the revised document must be submitted to the Planning Secretary for approval within six weeks of the review.

**Note:** *This is to ensure strategies, plans and programs are updated on a regular basis and to incorporate any recommended measures to improve the environmental performance of the development.*

#### Operational Environmental Management Plan – Site Wide

5. The Proponent must prepare an Operational Environmental Management Plan (OEMP) for the site in accordance with the requirements of Condition 1 of Schedule 6 and to the satisfaction of the Planning Secretary.

6. As part of the OEMP required under Condition 5 of Schedule 6 of this approval, the Proponent must include the following:
  - (a) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the site;
  - (b) describe the procedures that would be implemented to:
    - (i) keep the local community and relevant agencies informed about the operation and environmental performance of the development;
    - (ii) receive, handle, respond to, and record complaints;
    - (iii) resolve any disputes that may arise;
    - (iv) respond to any non-compliance;
    - (v) respond to emergencies; and
  - (c) incorporate the content of the Environmental Management Plans for the MBT Facility and the SRF Processing Area including:
    - (i) Rehabilitation and Closure Plan (RCP) for Woodlawn Mechanical Biological Treatment Facility (see Condition 13 of Schedule 3);
    - (ii) Soil, Water and Leachate Management Plan (SWLMP) for Woodlawn Mechanical Biological Treatment Facility (see Condition 16 of Schedule 3);
    - (iii) Environmental Management Plan for Woodlawn Mechanical Biological Treatment Facility (see Condition 1 of Schedule 4); and
    - (iv) Air Quality Management Plan (AQMP) for Solid Recovered Fuel Processing Area (see Condition 15 of Schedule 5);
    - (v) Operational Traffic Management Plan (OTMP) for Solid Recovered Fuel Processing Area; and
  - (d) Operational Waste Management Plan for the site.
7. The Proponent must operate the site in accordance with the OEMP approved by the Planning Secretary.

## **REPORTING AND AUDITING**

### **Incident Notification, Reporting and Response**

8. The Department must be notified in writing to [compliance@planning.nsw.gov.au](mailto:compliance@planning.nsw.gov.au) immediately after the Applicant becomes aware of an incident. The notification must identify the development (including the development application number and the name of the development if it has one) and set out the location and nature of the incident. Subsequent notification requirements must be given, and reports submitted in accordance with the requirements set out in Appendix 7.

### **Non-Compliance Notification**

9. The Department must be notified in writing to [compliance@planning.nsw.gov.au](mailto:compliance@planning.nsw.gov.au) within seven days after the Applicant becomes aware of any non-compliance.
10. A non-compliance notification must identify the development and the application number for it, set out the condition of approval that the development is non-compliant with, the way in which it does not comply and the reasons for the non-compliance (if known) and what actions have been, or will be, undertaken to address the non-compliance.
11. A non-compliance which has been notified as an incident does not need to also be notified as a non-compliance.

### **Compliance Reporting**

12. No later than 6 weeks before the date notified for the commencement of operation, a Compliance Monitoring and Reporting Program prepared in accordance with the Compliance Reporting Post Approval Requirements (Department 2018) must be submitted to the Department.
13. Compliance Reports of the project must be carried out in accordance with the Compliance Reporting Post Approval Requirements (Department 2018).
14. The Applicant must make each Compliance Report publicly available no later than 60 days after submitting it to the Department and notify the Department in writing at least 7 days before this is done.

### **Independent Audit**

15. No later than 4 weeks before the date notified for the commencement of operation, an Independent Audit Program prepared in accordance with the Independent Audit Post Approval Requirements (Department 2018) must be submitted to the Department.

16. Independent Audits of the development must be carried out in accordance with:
  - (a) the Independent Audit Program submitted to the Department under Condition 15 of this approval; and
  - (b) the requirements for an Independent Audit Methodology and Independent Audit Report in the Independent Audit Post Approval Requirements (Department 2018).
17. In accordance with the specific requirements in the Independent Audit Post Approval Requirements (Department 2018), the Applicant must:
  - (a) review and respond to each Independent Audit Report prepared under Condition 16 of this approval;
  - (b) submit the response to the Department; and
  - (c) make each Independent Audit Report and response to it publicly available no later than 60 days after submission to the Department and notify the Department in writing at least 7 days before this is done.

#### **Monitoring and Environmental Audits**

18. Any condition of this approval that requires the carrying out of monitoring or an environmental audit, whether directly or by way of a plan, strategy or program, is taken to be a condition requiring monitoring or an environmental audit under Division 9.4 of Part 9 of the EP&A Act. This includes conditions in respect of incident notification, reporting and response, non-compliance notification, compliance reporting and independent auditing.

**Note:** For the purposes of this condition, as set out in the EP&A Act, "monitoring" is monitoring of the development to provide data on compliance with the approval or on the environmental impact of the development, and an "environmental audit" is a periodic or particular documented evaluation of the development to provide information on compliance with the approval or the environmental management or impact of the development.

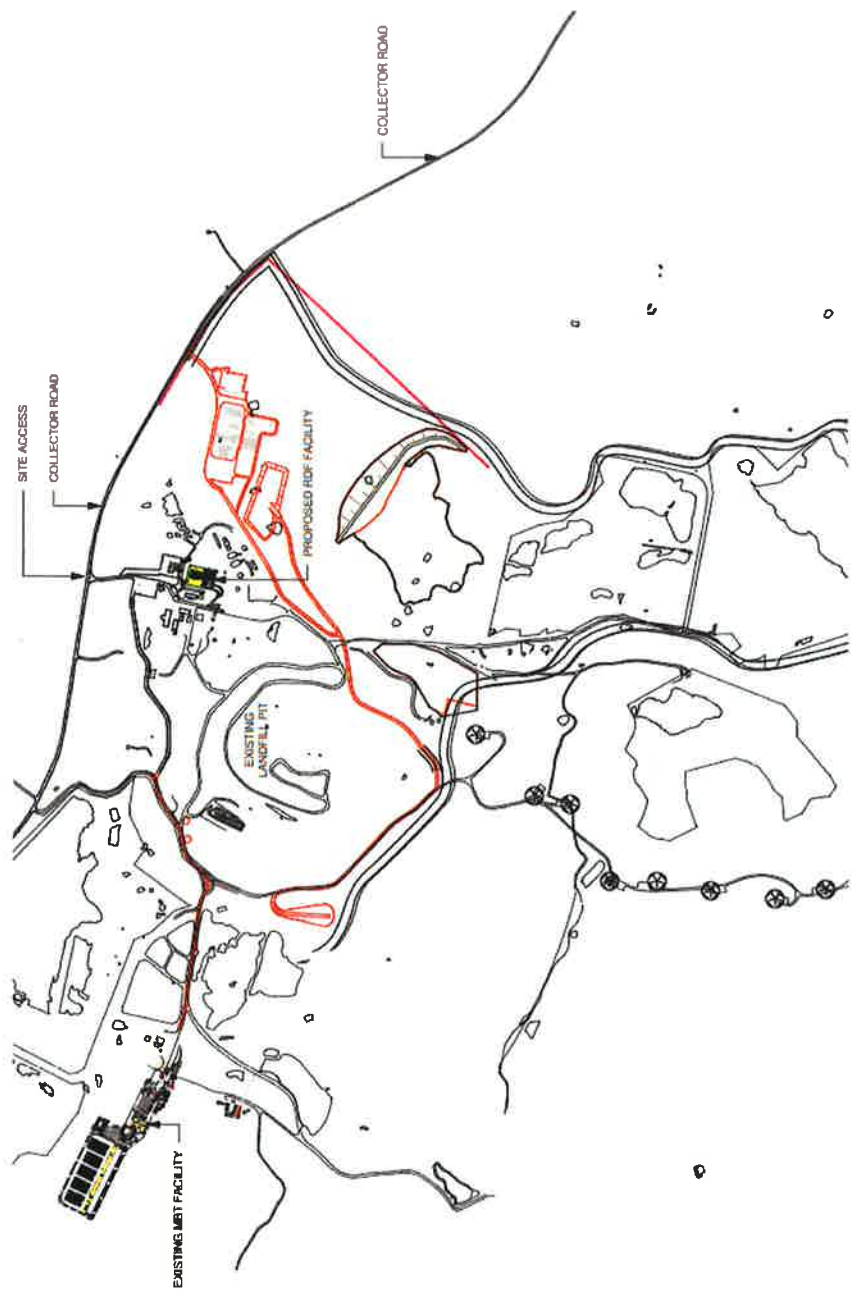
#### **ACCESS TO INFORMATION**

19. At least 48 hours before the commencement of construction until the completion of all works under this approval, including rehabilitation and remediation, the Applicant must:
  - (a) make the following information and documents (as they are obtained or approved) publicly available on its website:
    - the documents referred to in Condition 2 of Schedule 2 of this approval;
    - all current statutory approvals for the development;
    - all approved strategies, plans and programs required under the conditions of this approval;
    - all proposed staging plans for the development if the construction, operation or decommissioning of the development is to be staged;
    - regular reporting on the environmental performance of the development in accordance with the reporting requirements in any plans or programs approved under the conditions of this approval;
    - a comprehensive summary of the monitoring results of the development, reported in accordance with the specifications in any conditions of this approval, or any approved plans and programs;
    - a summary of the current stage and progress of the development;
    - contact details to enquire about the development or to make a complaint;
    - a complaints register, update monthly;
    - the Compliance Report of the development;
    - audit reports prepared as part of any Independent Audit of the development and the Applicant's response to the recommendations in any audit report;
    - any other matter required by the Planning Secretary; and
  - (b) keep such information up to date, to the satisfaction of the Planning Secretary.

#### **In the Appendices**

9. Insert new Appendix 4: Map Showing the SRF Processing Area immediately after Appendix 3 as below.
10. Insert new Appendix 5: Development Plans – SRF Processing Area immediately after Appendix 4 as below.

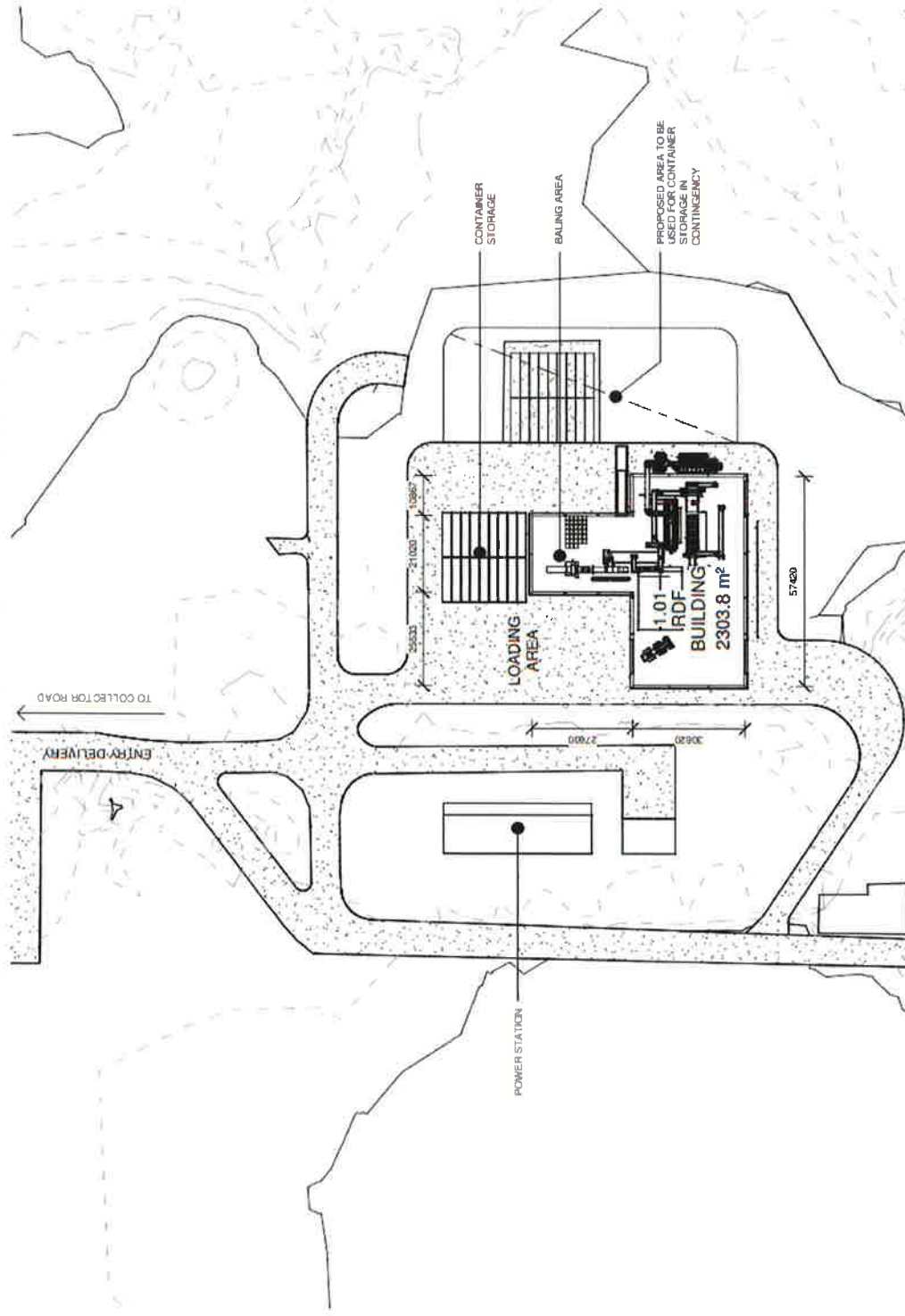
APPENDIX 1: Map Showing the SRF Processing Area



REV: T5	DETAILS	DATE: 30/04/2018	BY: AIS	PROJECT: WOODLAWN RDF	PROJECT NUMBER: 1702	DRAWING NUMBER: A010 TP	REVISION: T5
A3 SHEETS				CLIENT:  VEOLIA	DRAWING NAME: LOCALITY PLAN		
				DRAWING STATUS: TENDER ISSUE	SCALE: 1:15000 @ A3	DATE: 30/04/18	DRAWN: AIS
<small>ALL WORKS TO FOLLOW MATTER OF RECORD. CONTRACT SCALE. DIMENSIONS UNDER ANY CIRCUMSTANCES. USE THE 1:15000 SCALE FOR DIMENSIONS OF THE SITE.</small>							
<small>drawn architecture 270 Kerr Street Fitzroy 3065 0415 12 67 66 ASN: 29 600 077 487 ARBV Registration 51 488 NSW Notified Architect ANDREW DAVENPORT 5045</small>							



## APPENDIX 2: DEVELOPMENT PLANS – SRF PROCESSING AREA



REV	DETAILS	DATE	BY	PROJECT	PROJECT NUMBER	DRAWING NUMBER	REVISION
T5	A3 SHEETS	30/04/18	AKS	WOODLAWN RDF	1702	A100 TP	T7
T6	CONTAINER STORAGE	29/5/18	AD	CLIENT	DRAWING NAME		
T7	CONTINGENCY CONTAINERS ADDED	14/6/18	AD		SITE PLAN		
				DRAWING STATUS	SCALE	DATE	DRAWN
				TENDER ISSUE	1:1000 @ A3	30/04/18	AKS
				ALL DIMENSIONS TO FACE UNLESS OTHERWISE SPECIFIED. ALL DIMENSIONS ARE IN METRES. DIMENSIONS TO FACE UNLESS OTHERWISE SPECIFIED.			
				THIS DRAWING IS THE PROPERTY OF VEOLIA. IT IS TO BE USED ONLY FOR THE PROJECT AND NOT TO BE REPRODUCED OR COPIED IN ANY FORM OR BY ANY MEANS WITHOUT THE WRITTEN PERMISSION OF VEOLIA.			
				DAVIDSON ARCHITECTURE 2770 Kerr Street, Epping, NSW 1502 0415 12 67 86 ABN 29 600 077 487 AFBV Registration 51488 NSW NATURAL RESOURCES Andrew Davidson 9345			

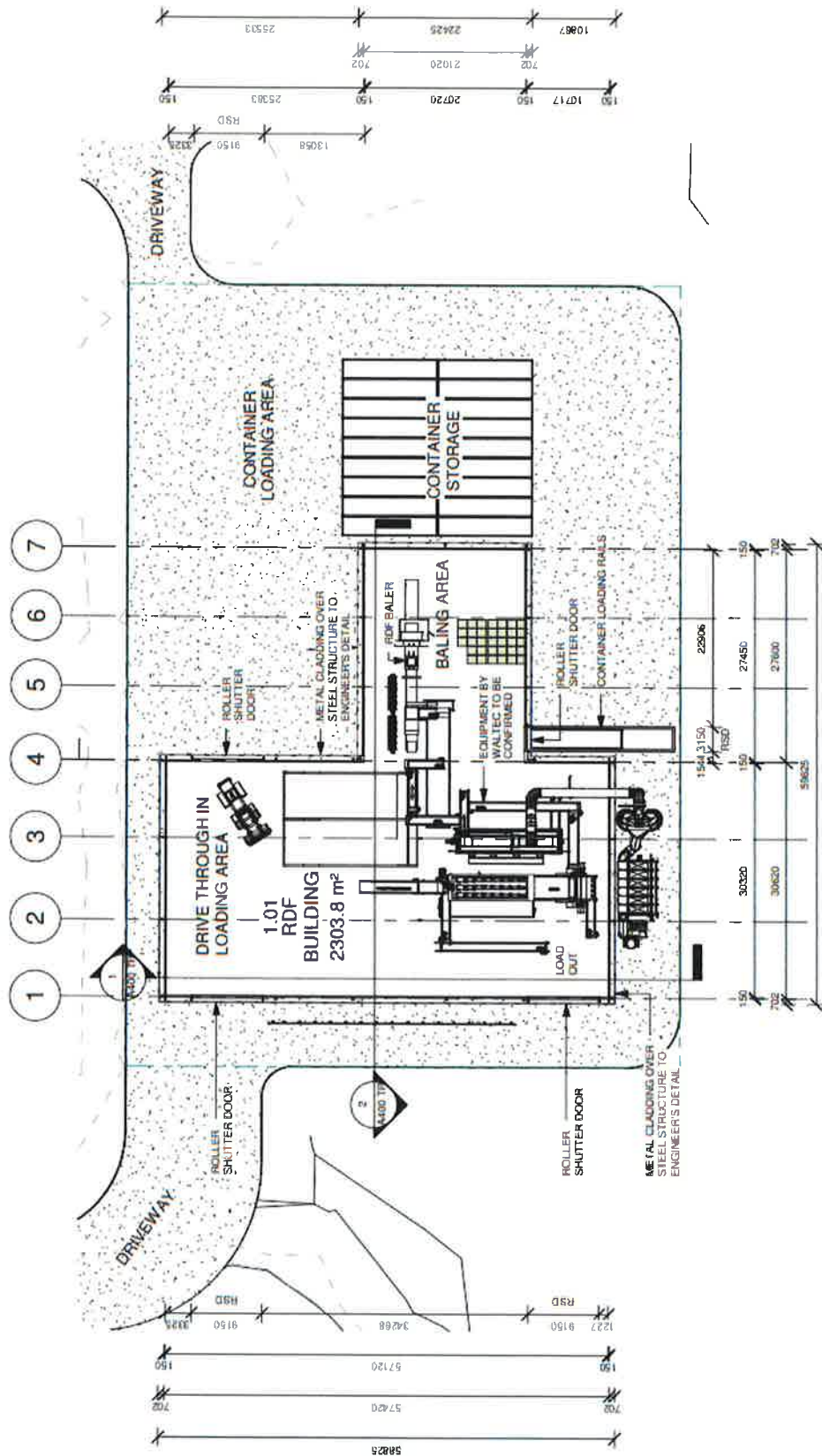


**LEGEND**

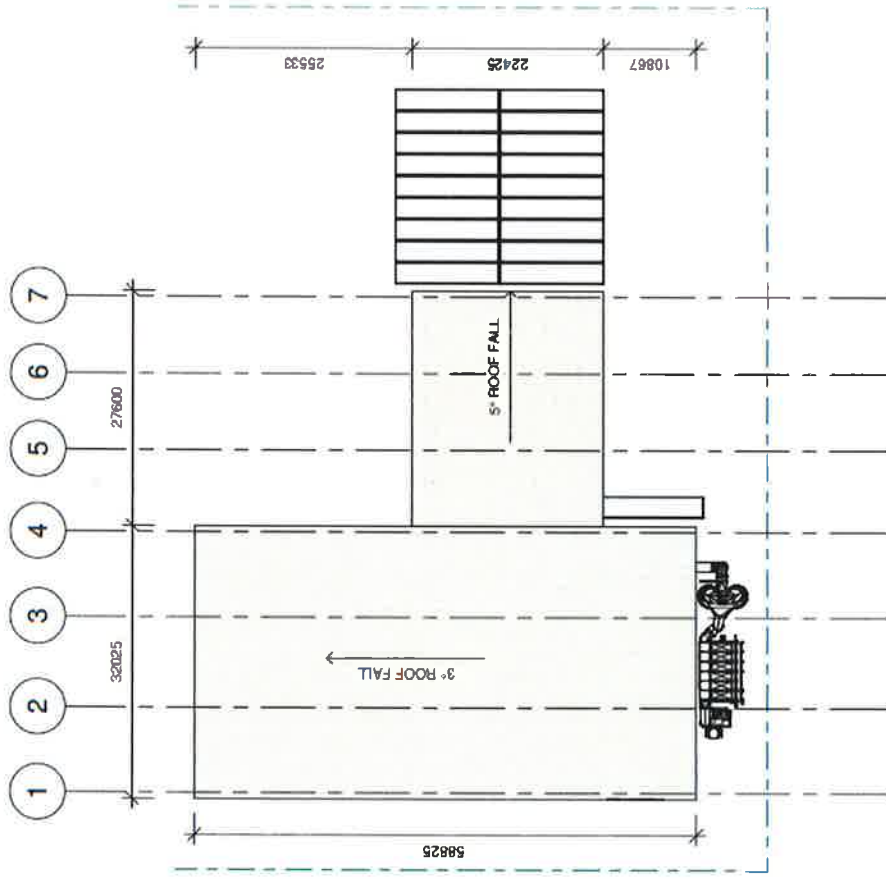
- TRUCKS TRANSFERRING WASTE TO AND FROM RDF
- TRUCKS TRANSFERRING CONTAINERS TO INTERMODAL


REV: DETAILS T5	DATE 30/04/2018	BY AIS	PROJECT WOODLAWN RDF	PROJECT NUMBER 1702	DRAWING NUMBER A110 TP	REVISION T5
			CLIENT WOODLAWN RDF	DRAWING NAME TRAFFIC FLOW		
			SCALE 1:1000 @ A3			
DRAWING STATUS TENDER ISSUE			DATE 30/04/18			
DRAWN AIS			DATE 30/04/18			

2/70 Keri Street Fitzroy 3065  
 0415 12 67 66  
 AEN 29 600 077 487  
 AENV Registration 51488  
 NSW Nominated Architect  
 Andrew Davidson SC45



REV	DETAILS	DATE	BY	PROJECT	PROJECT NUMBER	DRAWING NUMBER	REVISION
T2	TENDER ISSUE	18/12/17	MC	WOODLAWN RDF	1702	A120 TP	T5
T5	A3 SHEETS	30/04/2018	AIS	CLIENT	DRAWING NAME		
					GROUND FLOOR PLAN		
				DRAWING STATUS	SCALE		
				TENDER ISSUE	1: 500 @ A3		
					DATE		
					30/04/2018		
					DRAWN		
					MC		
				<p>Davidson Architecture 2/70 Key Street, Sydney 3005 0415 12 57 56 ABN 29 600 077 487 A/BV Registration 51488 NSW Notifiable Architect Andrew Davidson 9345</p>			

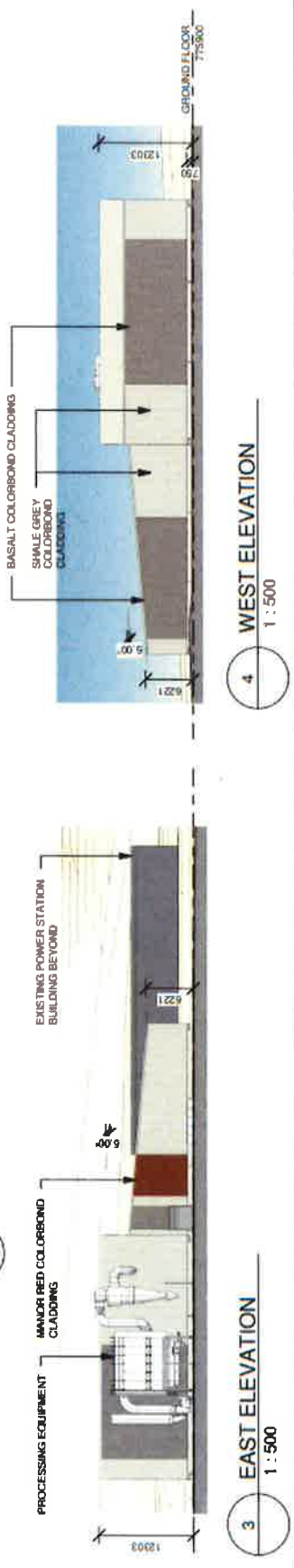
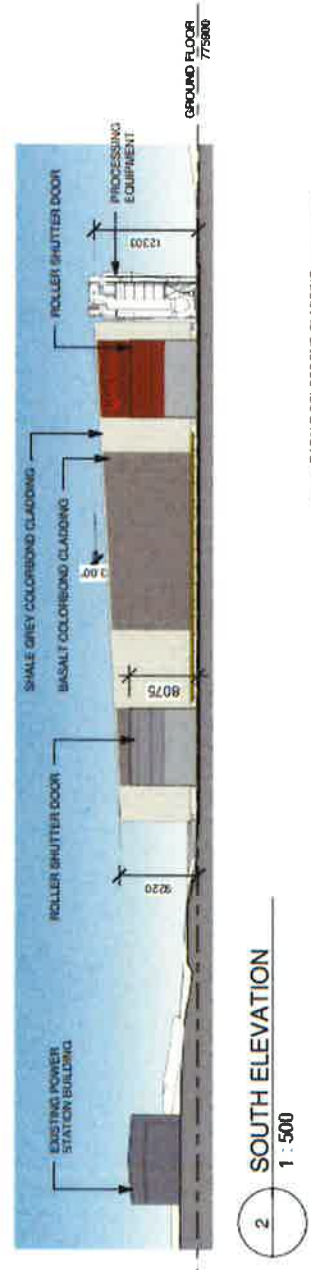
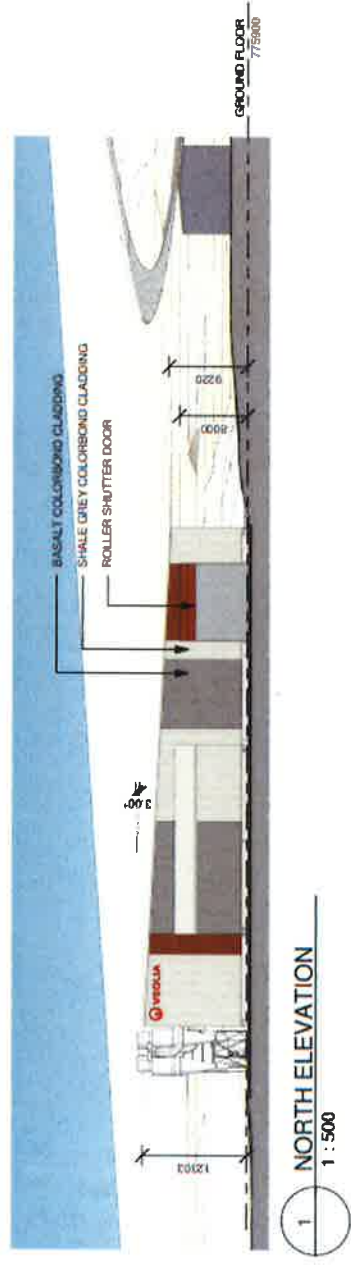


REV	DETAILS	DATE	BY	PROJECT	PROJECT NUMBER	DRAWING NUMBER	REVISION
15	A3 SHEETS	30/06/2018	AUS	WOODLAWN RDF	1702	A140 TP	T5
 <b>VEOLIA</b>				DRAWING NAME			
				ROOF PLAN			
				SCALE			
				1 : 500 @ A3			
DRAWING STATUS				DATE			
TENDER ISSUE				30/04/18			
DRAWN				AUS			

davidson architecture  
 2/70 Kent Street Fitzroy 3065  
**0415 12 57 00**  
 ABN 29 600 077 487  
 ARBV Registration 51488  
 NSW Nominated Architect  
 Andrew Davidson 93415

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REV: T5	DETAILS	A3 SHEETS	DATE: 30/04/2018	BY: AUS	PROJECT: WOODLAWN RDF	CLIENT: 	PROJECT NUMBER: 1702	DRAWING NUMBER: A300 TP	REVISION: T5
							DRAWING NAME: ELEVATIONS		
							SCALE: 1 : 500 @ A3	DATE: 30/04/18	DRAWN: AUS
							DRAWING STATUS: TENDER ISSUE		
							<small>ALL WORKING TO FOLLOW VEOLIA'S DIMENSIONS, TOLERANCES, SCALE, DIMENSIONS, UNLESS ANY OTHERWISE SPECIFIED.</small>		
							<small>VEOLIA IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS IN THIS DOCUMENT.</small>		
							<small>THIS DRAWING IS THE PROPERTY OF VEOLIA. IT IS NOT TO BE REPRODUCED OR USED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF VEOLIA.</small>		
							<small>DAWSON ARCHITECTURE 2/70 Kent Street Fitzroy 3066 0415 12 57 56 ABN 29 600 077 487 ABBY Registration 51488 NSW Registered Architect Andrew Davidson 5545</small>		



1 SECTION 01  
1 : 500



2 SECTION 02  
1 : 500

REV	DETAILS	DATE	BY	PROJECT	PROJECT NUMBER	DRAWING NUMBER	REVISION
T5	AS SHEETS	30/04/2018	AS	WOODLAWN RDF	1702	A400 TP	T5
				CLIENT	DRAWING NAME		
					SECTIONS		
				DRAWING STATUS	SCALE	DATE	DRAWN
				TENDER ISSUE	1 : 500 @ A3	30/04/18	AS
				ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED TO SCALE DIMENSIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED			
				DESIGN AND CONSTRUCTION BY VEOLIA ENVIRONMENTAL SERVICES			
				27/0 Kent Street Fitzroy 3065			
				0415 12 67 06			
				ASN 29 600 077 487			
				ARBV Registration 51488			
				NSW Notified Architect			
				Audrey Davidson 9345			

# Project Approval

## **Section 75J of the Environmental Planning and Assessment Act 1979**

As delegate of the Minister for Planning and Infrastructure under delegation dated 14 September 2011, we the Planning Assessment Commission of New South Wales (the Commission) approve the application referred to in Schedule 1, subject to the conditions in Schedules 2 to 8.

These conditions are required to:

- Prevent and minimise adverse environmental impacts;
- set standards and performance measures for acceptable environmental performance;
- require regular monitoring and reporting; and
- provide for the ongoing environmental management of the Project.

Member of the Commission

Member of the Commission

Sydney 16 March 2012

***The Department has prepared a consolidated version of the consent which is intended to include all modifications to the original determination instrument.***

***The consolidated version of the consent has been prepared by the Department with all due care. This consolidated version is intended to aid the consent holder by combining all consents relating to the original determination instrument but it does not relieve a consent holder of its obligation to be aware of and fully comply with all consent obligations as they are set out in the legal instruments, including the original determination instrument and all subsequent modification instruments.***

### **SCHEDULE 1**

**Application No:** 10\_0012

**Proponent:** Veolia Environmental Services (Australia) Pty Ltd

**Approval Authority:** Minister for Planning and Infrastructure

**Land:** Woodlawn Bioreactor site: Lot 19 DP 827588, Lots 25, 30, 33, 34, 69, 88 & 91 DP 754919, Lot 4 and 5 DP 830765, Lot 1 DP 241092

Crisps Creek Intermodal Facility site: Lot 1 DP 1045652

**Project:** Woodlawn Waste Expansion Project

Woodlawn Solid Recovered Fuel Processing Area Project: Construction and operation of a Solid Recovered Fuel processing area and associated infrastructure and changes to Crisps Creek Intermodal facility to transport SRF products to Port Kembla or Port Botany



## SUMMARY OF MODIFICATIONS

Application Number	Determination Date	Decider	Modification Description
MP 10_0012 MOD-1	9 September 2016	Acting Executive Director, Key Sites and Industry Assessments	Changes to on-site stormwater and treated leachate management
MP 10_0012 MOD-2	22 December 2027	Director, Industry Assessments	Construction of a leachate plant and associated infrastructure and changes to regional waste limits and operating hours
MP 10_0012 MOD-3	9 April 2019	Executive Director, Key Sites and Industry Assessments	Construction and operation of a Solid Recovered Fuel (SRF) processing area within the Woodlawn Eco Precinct
MP 10_0012 MOD-4	16 March 2020	Director, Industry Assessments	Temporary increase to waste receival rates to accept waste from bushfire impacted areas

## TABLE OF CONTENTS

<b>SCHEDULE 2 - DEFINITIONS</b>	<b>3</b>
<b>SCHEDULE 3 - ADMINISTRATIVE CONDITIONS</b>	
Obligation to Minimise Harm to the Environment	4
Terms of Approval	4
Limits of Approval	4
Structural Adequacy	5
Transitional Arrangements	5
Demolition	5
Operation of Plant and Equipment	5
Staged Submission of Plans or Programs	5
Compliance	5
<b>SCHEDULE 4 - SPECIFIC ENVIRONMENTAL CONDITIONS – LANDFILL SITE</b>	<b>6</b>
Waste Management	6
Air	6
Soil and Water	8
Noise	8
Flora and Fauna	9
Fire and Emergency Management	10
Visual Amenity	10
Security	10
Landfill Closure and Rehabilitation	10
<b>SCHEDULE 5 - SPECIFIC ENVIRONMENTAL CONDITIONS – CRISPS CREEK IMF SITE</b>	<b>11</b>
Waste Management	11
Air	11
Soil and Water	11
Noise	12
Visual Amenity	13
Security	13
Rail Traffic	13
<b>SCHEDULE 6 – TRAFFIC AND ROAD UPGRADES</b>	<b>14</b>
Traffic and Transport	14
Road Upgrades	14
Road Maintenance Contributions	15
<b>SCHEDULE 7 - ENVIRONMENTAL MANAGEMENT, REPORTING &amp; AUDITING</b>	<b>16</b>
Community Liaison Committee	16
Environmental Management	16
Independent Environmental Audit	17
Incident Reporting	17
Access to Information	17
<b>APPENDIX 1: STATEMENT OF COMMITMENTS</b>	<b>18</b>

<b>APPENDIX 2: SITE LAYOUT</b>	<b>20</b>
<b>APPENDIX 3: FINAL LANDFORM</b>	<b>22</b>
<b>APPENDIX 4: TRUCK HAULAGE ROUTES FOR REGIONAL WASTE</b>	<b>23</b>

For Information

## DEFINITIONS

BCA	Building Code of Australia
CEMP	Construction Environmental Management Plan
Conditions of this Approval	Conditions contained in Schedules 2 to 6 of this approval
Construction	The demolition and removal of buildings or works, carrying out of works for the purposes of the development, including bulk earthworks, and erection of buildings and other infrastructure covered by this approval
Councils	Goulburn Mulwaree and Queanbeyan-Palerang Councils
Crisps Creek IMF	Crisps Creek Intermodal Facility (see definition of site)
Department	Department of Planning and Environment Infrastructure
<del>Director-General</del>	<del>Director-General of the Department (or delegate)</del>
DPI	Department of Primary Industries – Minerals and Petroleum
<del>DPI Water</del>	<del>Department of Primary Industries – Water</del>
DoI L&W	Department of Industry – Lands & Water Division
EA	Environmental assessment titled Environmental Assessment - Woodlawn Expansion Project dated August 2010 and the associated response to submissions, dated March 2011 as modified by MP 10_0012 MOD 1, MOD 2 and MOD 3.
Earthworks	Bulk earthworks, site levelling, import and compaction of fill material, excavation for installation of drainage and services, to prepare the site for construction
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)
ED2	Evaporation Dam No. 2 as referred to in MOD 1
ED3	Evaporation Dam No. 3 as referred to in the EA
ED3N	Evaporation Dam No. 3 – North as referred to in MOD 1
ED3S	Evaporation Dam No. 3 – South as referred to in MOD 1
ED3S-S	Evaporation Dam No. 3 – South (southern lagoon) as referred to in Appendix 6
EPA	Environment Protection Authority <del>of OEH</del>
EP&A Act	Environmental Planning & Assessment Act 1979
EP&A Regulation	Environmental Planning & Assessment Regulation 2000
EPL	Environmental Protection Licence
Expanded operations	The point at which waste input at the Landfill exceeds 500,000 tonnes per annum
Feasible	Feasible relates to engineering considerations and what is practical to build
FRNSW	Fire & Rescue NSW
Heavy Vehicle	Any vehicle with a gross vehicle mass of 5 tonnes or more
Incident	<del>An incident causing or threatening material harm to the environment, and/or an exceedance of the limits or performance criteria in this approval</del>  An occurrence or set of circumstance that causes or threatens to cause material harm and which may or may not be or cause a non-compliance.  Note: “material harm” is defined in this approval
Land	<del>In general, the definition of land is consistent with the definition in the EP&amp;A Act</del>  Has the same meaning as the definition of the term in section 1.4 of the EP&A Act
Landfill	The Woodlawn Bioreactor (see definition of site)
LEMP	Landfill Environmental Management Plan

LGA	Local Government Area
LTP	Leachate Treatment Plant
Material Harm to the environment	Is harm that: <ul style="list-style-type: none"> <li>a) involves actual or potential harm to the health or safety of human beings or to the environment that is not trivial, or</li> <li>b) results in actual or potential loss or property damage of an amount, or amounts in aggregate, exceeding \$10,000, (such loss includes the reasonable costs and expenses that would be incurred in taking all reasonable and practicable measures to prevent, mitigate or make good harm to the environment)</li> </ul>
Minister	NSW Minister for Planning (or delegate) <del>and Infrastructure</del>
Mitigation	<del>Activities associated with reducing the impacts of the Project</del> Activities associated with reducing the impacts of the development prior to or during those impacts occurring
ML	Megalitre
<del>MOD 1</del>	<del>Modification Environmental assessment titled "Woodlawn Bioreactor, Modification to surface water and leachate management" dated 11 December 2015 and the Response to Submissions, dated June 2016</del>
<del>MOD 2</del>	<del>Modification Application titled 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</del>
<del>MOD 3</del>	<del>Modification Application titled Modification of MP 06_0239 and MP 10_0012 to enable the construction and operation of a Solid Recovered Fuel (SRF) processing area within the Woodlawn Eco Precinct prepared by SG Haddad Advisory and CW Strategic Planning Services dated July 2018 and Response to Submissions prepared by Veolia Environmental Services (Australia) Pty Ltd dated November 2018</del>
Modification Application	The document assessing the environmental impact of a proposed modification of this consent and any other information submitted with the following modification applications made under the EP&A Act: <ul style="list-style-type: none"> <li>(a) MOD 1 – Modification Environmental assessment titled 'Woodlawn Bioreactor, Modification to surface water and leachate management' dated 10 December 2015 and the Response to Submissions, dated June 2016</li> <li>(b) MOD 2 – Modification Application titled Modification of DA 31-02-99 and MP 10_0012 for the construction and of a leachate treatment plant and associated infrastructure and charges 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;</li> <li>(c) MOD 3 – Modification Application titled Modification to enable the construction and operation of a Solid Recovered Fuel (SRF) processing area within the Woodlawn Eco Precinct prepared by SG Haddad Advisory and CW Strategic Planning Services dated July 2018 and Response to Submissions dated November 2018; and</li> <li>(d) MOD 4 – Modification Application titled Modification Application for the Woodlawn Bioreactor (SSD 10_0012) to accept waste from bushfire impacted areas prepared by Veolia Environmental Services (Australia) Pty Ltd dated March 2020.</li> </ul>
Monitoring	Any monitoring required under this approval must be undertaken in accordance with section 9.40 of the EP&A Act
Night	The period from 10pm to 7am on Monday to Saturday, and 10pm to 8am on Sundays and Public Holidays
<del>NOW</del>	<del>Department of Primary Industries – NSW Office of Water</del>
OEH	NSW Office of Environment and Heritage
OEMP	Operational Environmental Management Plan
Operations	Operations are triggered by the receipt of waste on site

Planning Secretary	Planning Secretary under the EP&A Act, or nominee
Regional waste	Waste from Goulburn Mulwaree, Palerang, Queanbeyan, Bega Valley, Upper Lachlan, Yass Valley, Eurobodalla and the Australia Capital Territory, or other interested regional LGAs
POEO Act	Protection of the Environment Operations Act 1997
Privately owned land	Land not owned by the Proponent or a related party
Private residential receiver	Residence in Privately owned land
Project	The development described in the EA
Proponent	Veolia Environmental Services (Australia) Pty Ltd, or its successor
Reasonable	Reasonable relates to the application of judgment in arriving at a decision, taking into account: mitigation benefits, costs of mitigation versus benefits provided, community views, and the nature and extent of potential improvements
Rehabilitation	The treatment or management of land disturbed by the project for the purpose of establishing a safe, stable and non-polluting environment
RMS	Roads and Maritime Services
Site	Both the Woodlawn Bioreactor Site and the Crisps Creek Intermodal Facility Site as described in Schedule 1, unless referred to separately
Secretary	<del>Secretary of the Department (or delegate)</del>
SRF	Solid Recovered Fuel
SRF Processing Area	The Woodlawn SRF Processing Area off Collector Road approved by the Executive Director, Key Sites and Industry Assessments (MP 10_0012 MOD 3)
Statement of Commitments	The Proponent's Statement of Commitments in Appendix 1
tpa	Tonnes per annum
VENM	Virgin Excavated Natural Material
Water NSW	<del>NSW Water Supplier</del> NSW manager and protector of the Sydney Drinking Water Catchment
Year	A period of 12 consecutive months

## SCHEDULE 2 GENERAL ADMINISTRATIVE CONDITIONS

### OBLIGATION TO MINIMISE HARM TO THE ENVIRONMENT

1. The Proponent shall implement all reasonable and feasible measures to prevent and/or minimise any harm to the environment that may result from the construction, operation or decommissioning of the Project.

### TERMS OF APPROVAL

2. The Proponent **may only carry out the Project** in accordance with:
  - (a) EA;
  - (b) statement of commitments (see Appendix 1);
  - (c) **all written directions of the Planning Secretary**;
  - (d) site layout plans and drawings in the EA (see Appendix 2); **and**
  - ~~(e) Modification Application MP 10\_0012 MOD 1;~~
  - ~~(f) Modification Application MP 10\_0012 MOD 2;~~
  - ~~(g) Modification Application MP 10\_0012 MOD 3;~~
  - (e) **Modification Assessments**;
  - (f) conditions of this approval.
3. If there is any inconsistency between the above documents, the most recent document shall prevail to the extent of the inconsistency. However, the conditions of this approval shall prevail to the extent of any inconsistency.
4. The Proponent shall comply with any reasonable requirement/s of the Planning Secretary arising from the Department's assessment of:
  - (a) any reports, plans, strategies, programs or correspondences that are submitted in accordance with this approval; and
  - (b) the implementation of any actions or measures contained in these reports, plans, strategies, programs or correspondences.

### LIMITS OF APPROVAL

#### Woodlawn Bioreactor

5. The Proponent shall not exceed the maximum annual input rates in Table 1 for the Landfill, unless otherwise agreed to by the **Planning Secretary** in accordance with condition 6 below.

Table 1: Maximum waste input rates at the Landfill

Putrescible waste received by rail from Sydney	Received as residual waste from Woodlawn AWT	Putrescible regional waste received by road
900,000 tpa	100,000 tpa	50,000 tpa

6. Prior to the receipt of more than 5,000 tpa of regional waste by road at the Landfill, the Proponent shall obtain approval in writing from the **Planning Secretary** to vary the limit for the receipt of regional waste not exceeding 130,000 tpa at the Landfill. Any such request must demonstrate to the satisfaction of the **Planning Secretary** that the receipt of the additional regional waste from each LGA, state or territory government:
  - would result in a net environmental benefit, including but not limited to:
    - the permanent closure of a smaller municipal landfill facility with poor environmental performance;
  - is not inconsistent with and would not undermine any resource recovery strategy, target/s or initiative of the source local, state or territory government; and
  - would not significantly impact on the capacity of the Landfill and its primary purpose to accept waste from Sydney.

Note: this condition is linked to condition 3 in Schedule 6 of this approval which restricts the haulage of regional waste by road to certain routes (see Appendix 4), unless otherwise approved by the **Planning Secretary**.

7. In any event, no more than 1.13 million tpa of waste shall be accepted at the Landfill.



- 7A. Irrespective of conditions 5, 6 and 7 of Schedule 3, the Proponent may receive up to 200,000 cubic metres of bushfire impacted waste material from regional areas of NSW between March and September 2020, unless otherwise agreed to in writing by the Planning Secretary. The regional waste received from bushfire impacted areas is to be excluded from the maximum annual input rates in conditions 5, 6 and 7 of Schedule 2.

*Note: Road maintenance contributions outlined in Condition 10 of Schedule 6 also applies to the bushfire impacted waste referred to in Condition 7A above.*

#### **Crips Creek IMF**

8. The Proponent shall not exceed the annual throughput rates in Table 2 for the Crips Creek IMF.

*Table 2: Maximum waste throughput rates at the Crips Creek IMF*

Received by rail from Sydney	Received by rail from Sydney for processing at the Woodlawn AWT	Received by road from SRF facility for transporting to Port Kembla/Port Botany
900,000 tpa	280,000 tpa	37,400 tpa

#### **STRUCTURAL ADEQUACY**

9. The Proponent shall ensure that all new buildings and structures, and any alterations or additions to existing buildings and structures are constructed in accordance with the relevant requirements of the BCA.

Notes:

- Under Part 4A of the EP&A Act, the Proponent is required to obtain construction and occupation certificates for the proposed building works.

#### **TRANSITIONAL ARRANGEMENTS**

10. This approval does not affect the rights or obligations under DA No. 31-02-99 except in the event of any inconsistency between DA No. 31-02-99 and this approval, this approval shall prevail.
11. The Proponent shall ensure that the receipt of waste at the Landfill is restricted to 500,000 tpa until all conditions of this approval relating to the commencement of expanded operations have been satisfied.
12. All existing environmental management plans that apply to the site under DA No. 31-02-99 shall continue to be fully applied until replaced under this approval.

#### **DEMOLITION**

13. The Proponent shall ensure that all demolition work is carried out in accordance with Australian Standard AS 2601:2001: The Demolition of Structures, or its latest version.

#### **OPERATION OF PLANT AND EQUIPMENT**

14. The Proponent shall ensure that all plant and equipment used for the Project is:

- a) maintained in a proper and efficient condition; and
- b) operated in a proper and efficient manner.

#### **STAGED SUBMISSION OF PLANS OR PROGRAMS**

15. With the approval of the Planning Secretary, the Proponent may submit any plan or program required by this approval on a progressive basis.

#### **COMPLIANCE**

16. The Proponent must assess and manage project-related risks to ensure that there are no exceedances of the criteria and/or performance measures in Schedules 3, 4, 5 and 6. Any exceedance of these criteria and/or performance measures constitutes a breach of this approval and may be subject to penalty or offence provisions under the EP&A Act or EP&A Regulation. Where any exceedance of these criteria and/or performance measures has occurred, the Proponent must, at the earliest opportunity:
- a) take all reasonable and feasible steps to bring the operation back into compliance;
  - b) ensure that the exceedance does not recur;
  - c) consider all reasonable and feasible options for remediation (where relevant) and how to prevent a recurrence and submit a report to the Department describing those options and any preferred remediation measures or other course of action; and
  - d) implement remediation and prevention measures as directed by the Planning Secretary, to the satisfaction of the Planning Secretary.

## SCHEDULE 4

### SPECIFIC ENVIRONMENTAL CONDITIONS – LANDFILL SITE

#### WASTE MANAGEMENT

##### Restrictions of the Receipt, Storage, Handling and Disposal of Waste

1. The Proponent shall only receive waste on site that is authorised for receipt by an EPL.

##### Cover Material

2. The Proponent shall ensure that all waste cover material used on site is virgin excavated natural material and/or alternative daily cover, as approved in writing by the ~~OE~~ EPA.

##### Litter Control

3. The Proponent shall:
  - (a) implement suitable measures to prevent the unnecessary proliferation of litter both on and off site, including the installation and maintenance of a mesh fence of not less than 1.8 metres high around the landfill; and
  - (b) inspect daily and clear the site (and if necessary, surrounding area) of litter on at least a weekly basis.

#### AIR

##### Landfill Gas Limits

4. The Proponent shall ensure that landfill gas engine (LGE) emissions at the Bioreactor comply with the requirements of the POEO (Clean Air) Regulation 2010.

##### Greenhouse Gas

5. The Proponent shall implement all reasonable and feasible measures to minimise:
  - (a) energy use on site; and
  - (b) the greenhouse gas emissions produced on site,to the satisfaction of the ~~Planning~~ Secretary.

##### Odour

##### Discharge Limits

6. The Proponent shall not cause or permit the emission of offensive odours from the site, as defined under Section 129 of the POEO Act.

##### Independent Odour Audit

7. Within 3 months of the date of this project approval, and annually thereafter, unless otherwise agreed to by the ~~Planning~~ Secretary pursuant to Condition 8 of this Schedule, the Proponent shall commission and pay the full cost of an Independent Odour Audit of the project. This audit must be conducted by a suitably qualified, experienced and independent expert whose appointment has been endorsed by the ~~Planning~~ Secretary. During the audit, this expert must:
  - (a) consult with ~~OE~~ EPA and the Department;
  - (b) audit the effectiveness of the odour controls on site in regard to protecting receivers against offensive odour;
  - (c) review the Proponent's production data (that are relevant to the odour audit) and complaint records;
  - (d) review the relevant odour sections of the Air Quality and Greenhouse Gas Management Plan for the project and assess the effectiveness of the odour controls;
  - (e) measure all key odour sources on site including:
    - i. consideration of wet weather conditions providing all raw sampling data used in this analysis;
    - ii. consideration of (but not limited to) all liquid storage areas, active tipping faces, waste cover area, aged waste areas and recirculation of leachate onto waste in the void; and
    - iii. a comparison of the results of these measurements against the predictions in the EA;
  - (f) determine whether the project is complying with the requirements in this approval to protect receivers against offensive odour;

- (g) outline all reasonable and feasible measures (including a cost/benefit analysis, if required) that may be required to improve odour control at the site; and
  - (h) recommend and prioritise (mandatory and non-mandatory) recommendations for their implementation.
8. The **Planning Secretary** may vary the frequency of the audit after 5 years depending on the performance of the project and demonstrated compliance with Condition 6 of Schedule 4. This condition is linked to condition 9 in Schedule 5.
  9. Within 6 weeks of the completion of an odour audit, the Proponent shall submit a copy of the audit report to both OEHL and the Department with a response to any recommendations contained in the audit report.
  10. Unless otherwise directed by the **Planning Secretary**, the Proponent shall implement all the mandatory odour controls and recommendations of any Independent Odour Audit/s. Recommendations of the **preceding first** Independent Odour Audit/s required under this approval shall be implemented prior to the commencement of expanded operations.

This audit must be documented in the Landfill EMP (see condition 3 in schedule 7).

### Dust Limits

11. The Proponent shall ensure that dust generated by the project does not exceed the criteria listed in Tables 3 to 5 at any private residential receiver, or on more than 25 percent of any privately-owned land surrounding the site.

*Table 3: Long term criteria for particulate matter*

Pollutant	Averaging period	<sup>d</sup> Criterion
Total suspended particulate (TSP) matter	Annual	<sup>a</sup> 90 µg/m <sup>3</sup>
Particulate matter < 10 µm (PM <sub>10</sub> )	Annual	<sup>a</sup> 30 µg/m <sup>3</sup>

*Table 4: Short term criterion for particulate matter*

Pollutant	Averaging period	<sup>d</sup> Criterion
Particulate matter < 10 µm (PM <sub>10</sub> )	24 hour	<sup>a</sup> 50 µg/m <sup>3</sup>

*Table 5: Long term criteria for deposited dust*

Pollutant	Averaging period	Maximum increase in deposited dust level	Maximum total <sup>1</sup> deposited dust level
<sup>c</sup> Deposited dust	Annual	<sup>b</sup> 2 g/m <sup>2</sup> /month	<sup>a</sup> 4 g/m <sup>2</sup> /month

Notes for Tables 3 -5:

- <sup>a</sup> Total impact (i.e. incremental increase in concentrations due to the project plus background concentrations due to other sources);
- <sup>b</sup> Incremental impact (i.e. incremental increase in concentrations due to the project on its own);
- <sup>c</sup> Deposited dust is to be assessed as insoluble solids as defined by Standards Australia, AS/NZS 3580.10.1:2003: Methods for Sampling and Analysis of Ambient Air - Determination of Particulate Matter - Deposited Matter - Gravimetric Method; and
- <sup>d</sup> Excludes extraordinary events such as bushfires, prescribed burning, dust storms, fire incidents or any other activity agree to by the **Planning Secretary** in consultation with OEHL.

### Air Quality Monitoring, Management and Validation

12. The Proponent shall prepare and implement an Air Quality and Greenhouse Gas Management Plan for the Landfill to the satisfaction of the **Planning Secretary**. This plan must:
  - (a) be prepared in consultation with **OEHL EPA** by a suitably qualified and experienced expert whose appointment has been endorsed by the **Planning Secretary**;
  - (b) be approved by the **Planning Secretary** prior to the commencement of expanded operations;

- (c) describe in detail the measures that would be implemented on site to manage the air quality (particularly odour) and greenhouse gas impacts of the project to ensure compliance with this approval and other relevant statutory controls;
- (d) include a program for monitoring the air quality impacts of the project, in particular:
  - LGE specifications and monitoring of LGE emissions against the requirements of the POEO (Clean Air) Regulation 2010 including measures that would be taken to ensure compliance with this regulation;
- (e) be revised to consider mandatory odour controls and recommendations of any Independent Odour Audit required by this approval; and
- (f) detail the remedial actions to be taken in the event that a non-compliance is identified.

This plan must be documented in the Landfill EMP (see condition 3 in schedule 7).

## **SOIL AND WATER**

### **Pollution of Waters**

13. Except as may be expressly provided in the EPL for the site, the Proponent shall comply with Section 120 of the POEO Act.

### **Soil**

14. The Proponent shall:
  - (a) minimise any soil loss through erosion on site;
  - (b) where possible, set aside any topsoil won on site for the proposed revegetation and rehabilitation of the site; and
  - (c) ensure that any topsoil stockpiles on site are suitably managed to ensure that the topsoil in these stockpiles can be beneficially used in the proposed revegetation and rehabilitation of the site.

### **Bunding**

15. The Proponent shall store all chemicals, fuels and oils used on site in appropriately banded areas, with impervious flooring and sufficient capacity to contain 110% of the largest container stored within the bund, unless double-skinned tanks are used. Any bunds shall be designed and installed in accordance with the requirements of all relevant Australian Standards, and/or OEH's Environmental Protection Manual: Technical Bulletin Bunding and Spill Management.

### **Erosion and Sediment Control**

16. During the construction, the Proponent shall implement suitable erosion and sediment control measures on site, in accordance with the relevant requirements in the latest version of the Managing Urban Stormwater: Soils and Construction guideline.

### **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 **Planning Secretary**. This plan must:
  - (a) be prepared in consultation with **EPA**, **Water NSW** ~~OEH~~ and ~~DPI Water~~ **Dol Lands & Water** by a suitably **qualified** and experienced expert whose appointment has been endorsed by the **Planning Secretary**;
  - (b) be approved by the **Planning 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**, **MOD 2** and **MOD 3**. 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 **Planning 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.

### **Leachate Management**

18. The Proponent shall prepare and implement a Leachate Management Plan for the Landfill to the satisfaction of the Planning Secretary. This plan must:

- (a) be prepared in consultation with EPA OEH, Water NSW and DPI Water by a suitably qualified and experienced expert whose appointment has been endorsed by the Planning Secretary;
- (b) be approved by the Planning 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 Planning Secretary.

### **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 Planning 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.

### **Long-term Leachate Management**

18B. The Proponent must develop and implement a Long-term Leachate Management Strategy that:

- Minimises the generation of leachate at the premises;
- Captures, treats and disposes of all leachate generated at the premises;
- Maintains leachate levels in the waste mass to a level that does not inhibit the efficiency of the landfill gas extraction system;
- Progressively removes all treated leachate from ED3; and
- Minimise the emission of offensive odours from leachate treated and stored onsite so there is no offsite impact.

The Long-term Leachate Management Strategy must be submitted to the Secretary and the EPA (for inclusion as a Pollution Reduction Program attached to environment protection licence 11436) for approval within two months of the approval date of MOD 1.

18C. Treated leachate must not be discharged to any part of ED3S, other than ED3S-S, until such time as the Long-term Leachate Management Strategy has been approved by the Secretary and the EPA.

18D. Seepage or leakage points in ED2 must be identified and repaired to the satisfaction of the Secretary and EPA prior to the transfer of any stormwater from ED3S to ED2.

18E. The Long-term Leachate Management Strategy must be operational no later than 30 September 2018 or as otherwise agreed by the Secretary.

### **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.

### **NOISE**

#### **Limits**

- 19. The Proponent shall ensure that the noise generated by the operations on-site does not exceed the limits in Table 6 at any private residential receiver.

*Table 6: Noise impact assessment criteria dB(A)*

Receiver	6am – 10pm	10pm – 6am	
	L <sub>Aeq</sub> (15 minute)	L <sub>Aeq</sub> (15 minute)	L <sub>Amax</sub>
Any private residential receiver	35	35	45

Noise generated by the project is to be measured in accordance with the relevant procedures and exemptions (including certain meteorological conditions) of the NSW Industrial Noise Policy.

#### **Operating Hours**

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

#### **Monitoring and Management**

- 21. The Proponent shall prepare and implement a Noise Monitoring and Management Plan for the Landfill to the satisfaction of the ~~Planning~~ Secretary. This Plan must:
  - (a) be prepared in consultation with the EPA by a suitably qualified and experienced expert whose appointment has been endorsed by the ~~Planning~~ Secretary;
  - (b) be approved by the ~~Planning~~ Secretary prior to the commencement of expanded operations;



- (c) include a noise monitoring protocol for evaluating compliance with the noise impact assessment criteria in this approval;
- (d) details all reasonable and feasible measures to minimise noise at the site;
- (e) consider road traffic noise management and include a revised road traffic noise protocol;
- (f) describe mitigation measures that would be implemented in the event that a non-compliance is identified with the noise impact assessment criteria in this approval.

This plan must be documented in the Landfill EMP (see condition 3 in schedule 7).

### **Meteorological Monitoring**

- 22. During the life of the project, the Proponent shall ensure that there is a suitable meteorological station in the vicinity of the site that complies with the requirements in the latest version of Approved Methods for Sampling of Air Pollutants in New South Wales guideline.

### **FLORA AND FAUNA**

#### **Vegetation Management Plan**

- 23. The Proponent shall prepare and implement a Landscaping and Vegetation Management Plan for the Landfill. This plan must:
  - (a) be prepared in consultation with OEH and ~~DPI Water~~ **Dol Lands & Water** by a suitably qualified and experienced expert;
  - (b) be approved by the **Planning Secretary** prior to the commencement of expanded operations;
  - (c) include measures to minimise such vegetation loss and additional tree planting to offset this loss;
  - (d) detail any landscaping treatments at the Landfill, with particular attention to minimising the visibility of the site/s from residences and public vantage points;
  - (e) describe the on-going maintenance regime for rehabilitation and vegetation management in the rehabilitation area/s.

This plan must be documented in the Landfill EMP (see condition 3 in schedule 7).

#### **Pest, Vermin & Noxious Weed Management**

- 24. The Proponent shall:
  - (a) implement suitable measures to manage pests, vermin and declared noxious weeds on site; and
  - (b) inspect the site on a regular basis to ensure that these measures are working effectively, and that pests, vermin or noxious weeds are not present on site in sufficient numbers to pose an environmental hazard or cause the loss of amenity in surrounding area.

*Note: For the purposes of this condition, noxious weeds are those species subject to an order declared under the Noxious Weed Act 1993.*

These measures must be documented in the Landfill EMP (see condition 3 in schedule 7).

### **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 **Planning 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);
    - measures to minimise the risk of fire on site, including in the landfill area;
    - actions to extinguish any fires on site promptly;
    - 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 and the SRF facility, the Fire and Emergency Management Plan must be revised and approved by the Planning Secretary.

### **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.

### **VISUAL AMENITY**

#### **Lighting**

26. The Proponent shall ensure that the lighting associated with the project:
- (c) complies with the latest version of AS 4282(INT) - Control of Obtrusive Effects of Outdoor Lighting; and
  - (d) is mounted, screened and directed in such a manner that it does not create a nuisance to surrounding properties or the public road network.

### **SECURITY**

27. The Proponent shall:
- (a) install and maintain a perimeter stock fence and security gates on the site; and
  - (b) ensure that the security gates on site are locked whenever the site is unattended.

### **LANDFILL CLOSURE AND REHABILITATION**

28. The Proponent shall prepare and implement a Closure Plan for the Landfill to the satisfaction of the Planning Secretary. This plan must:
- (a) be prepared in consultation with the OEHL, EPA, Water NSW and other relevant agencies by suitably qualified and experienced experts whose appointment has been endorsed by the Planning Secretary;
  - (b) be submitted to the Planning Secretary for approval within six (6) months of the date of this approval;
  - (c) ensure that the final landform of the site is consistent with the figure in Appendix 3 of this approval; and
  - (d) include details of the post closure management measures for all aspects of the Project.

This plan must be documented in the Landfill EMP (see condition 3 in schedule 7).

29. The Proponent shall prepare and implement a Rehabilitation Management Plan for the Landfill to the satisfaction of the Planning Secretary. This plan must:
- (a) be prepared in consultation with the OEHL, EPA, Water NSW and other relevant agencies by a suitably qualified and experienced expert;
  - (b) be submitted to the Planning Secretary for approval within six (6) months of the date of this approval;
  - (c) be undertaken in a manner which is complementary with the rehabilitation of the Woodlawn mine site; and
  - (d) must ensure rehabilitation of the site does not impede or limit the rehabilitation works on any part of the Woodlawn Mine site.

This plan must be documented in the Landfill EMP (see condition 3 in schedule 7).

## SCHEDULE 5

### SPECIFIC ENVIRONMENTAL CONDITIONS – CRISPS CREEK IMF SITE

#### WASTE MANAGEMENT

##### Restrictions of the Receipt, Storage, Handling and Disposal of Waste

1. The Proponent shall only receive waste on site that is authorised for receipt by an EPL.
2. The Proponent shall ensure that any contaminated stormwater and sludges collected at the Crisps Creek IMF are disposed of at the landfill site, unless otherwise approved by OEH.
3. The Proponent shall ensure that there is no storage of sludges or overnight storage of containerised waste, on the Crisps Creek IMF site, unless otherwise approved by the OEH.

##### Waste Transportation

4. The Proponent shall ensure that all waste containers are designed, constructed and maintained to prevent the emission of offensive odour and be water-tight to prevent the leakage of leachate during transport and handling activities.

##### Litter Control

5. The Proponent shall inspect daily and clear the site (and if necessary, surrounding area) of litter on at least a weekly basis.

##### Pest, Vermin & Noxious Weed Management

6. The Proponent shall:
  - (a) implement suitable measures to manage pests, vermin and declared noxious weeds on site; and
  - (b) inspect the site on a regular basis to ensure that these measures are working effectively, and that pests, vermin or noxious weeds are not present on site in sufficient numbers to pose an environmental hazard or cause the loss of amenity in surrounding area.

These measures must be documented in the Crisps Creek IMF EMP (see condition 4 in schedule 7).

*Note: For the purposes of this condition, noxious weeds are those species subject to an order declared under the Noxious Weed Act 1993.*

#### AIR

##### Greenhouse Gas

7. The Proponent shall implement all reasonable and feasible measures to minimise:
  - (a) energy use on site; and
  - (b) the greenhouse gas emissions produced on site,to the satisfaction of the **Planning Secretary**.

##### Odour

##### Discharge Limits

8. The Proponent shall not cause or permit the emission of offensive odours from the site, as defined under Section 129 of the POEO Act.

##### Independent Odour Audit

9. The Proponent shall include consideration of the Crisps Creek IMF site in any Independent Odour Audit required by condition 7 in schedule 4.

#### SOIL AND WATER

##### Pollution of Waters

10. Except as may be expressly provided in the EPL for the site, the Proponent shall comply with Section 120 of the POEO Act.

##### Wastewater Management

11. The Proponent shall ensure that there is no vehicle or container wash down at the Crisps Creek IMF.
12. The Proponent shall ensure that:
  - (a) the on-site sewage treatment system at the Crisps Creek IMF is operated in accordance with a Network Operator's Licence under the *Water Industry Competition Act 2006*, if required;

- (b) the design of the sewerage system is consistent with Council's DCP (if applicable); and
- (c) the disposal and irrigation of treated sewage is consistent with the Environmental Guidelines Use of Effluent by Irrigation (DECC) and the Australian guidelines for water recycling: managing health and environmental risks (phase1) – 2006.

### Bunding

13. The Proponent shall store all chemicals, fuels and oils used on site in appropriately bunded areas, with impervious flooring and sufficient capacity to contain 110% of the largest container stored within the bund, unless double-skinned tanks are used. Any bunds shall be designed and installed in accordance with the requirements of all relevant Australian Standards, and/or OEH's Environmental Protection Manual: Technical Bulletin Bunding and Spill Management.

### Erosion and Sediment Control

14. During the construction, the Proponent shall implement suitable erosion and sediment control measures on site, in accordance with the relevant requirements in the latest version of the Managing Urban Stormwater: Soils and Construction guideline.

### NOISE

#### Limits

15. The Proponent shall ensure that the noise generated by the operations on-site, other than freight train activities, does not exceed the limits in Table 8 at any private residential receiver.

Table 8: Noise impact assessment criteria dB(A)

Receiver	6am – 10pm	10pm – 6am	
	L <sub>Aeq</sub> (15 minute)	L <sub>Aeq</sub> (15 minute)	L <sub>Amax</sub>
Any private residential receiver	35	35	45

Noise generated by the project is to be measured in accordance with the relevant procedures and exemptions (including certain meteorological conditions) of the NSW Industrial Noise Policy.

16. Noise emissions from freight trains entering and leaving the site must not exceed the noise limit of 45 dB(A) L<sub>Aeq</sub> (15 minute) prior to 7:00 am and 50 dB(A) L<sub>Aeq</sub> (15 minute) after 7:00 am.

Noise generated by the project is to be measured in accordance with the relevant procedures and exemptions (including certain meteorological conditions) of the NSW Industrial Noise Policy.

### Operating Hours

17. The Proponent shall comply with the operating hours in Table 9 for the site, unless otherwise agreed in writing by the [OEH 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
	<a href="#">Sunday, Christmas Day and Good Friday</a>	Nil

### VISUAL AMENITY

#### Lighting

18. The Proponent shall ensure that the lighting associated with the project:
  - (a) complies with the latest version of AS 4282(INT) - Control of Obtrusive Effects of Outdoor Lighting; and

- (b) is mounted, screened and directed in such a manner that it does not create a nuisance to surrounding properties or the public road network.

## SECURITY

19. The Proponent shall:

- (a) install and maintain a perimeter stock fence and security gates on the site; and
- (b) ensure that the security gates on site are locked whenever the site is unattended.

## RAIL TRAFFIC

- 20. The Proponent ~~shall~~ must ensure that only 2 trains (4 movements) in total are permitted to ingress and egress from the Crisps Creek IMF per day from Monday to Saturday.
- 21. The tonnage of waste delivered to the IMF by train must not exceed 780,000 tpa, until the electronic signalling system has been implemented so as to eliminate the need for waste trains to stop across the road crossing at Tarago.
- 22. The tonnage of SRF Processing Area dispatched from the Crisps Creek IMF by train must not exceed 37,400 tpa.
- 23. The Proponent shall prepare and implement a Rail Transport Code of Conduct for the Crisps Creek IMF in consultation with ARTC and Countrylink and to the satisfaction of the Planning Secretary. This Plan must:
  - (a) be submitted to the Planning Secretary for approval prior to the commencement of expanded operations;
  - (b) detail operational rail traffic management measures including driver code of conduct, locomotive arrival and departure procedures (e.g. reduced locomotive speed);
  - (c) outline measures to minimise rail traffic noise; and
  - (d) detail measures to minimise rail traffic related conflicts with existing rail operations.

## SCHEDULE 6

### TRAFFIC AND ROAD UPGRADES

#### TRAFFIC AND TRANSPORT

##### Delivery of Waste from the IMF to the Landfill

1. The Proponent shall ensure that at all times heavy vehicles transporting waste from the Crisps Creek IMF to the Landfill travel via the Crisps Creek IMF site access road, onto Bungendore Road, onto Collector Road and then onto the Landfill site access road.
2. The Proponent shall ensure that the reverse of the route specified in condition 1 of this schedule above is used to egress from the Landfill site at all times.

##### Delivery of Regional Waste by Road

3. The Proponent shall ensure that all regional waste is transported to the Landfill by road along those routes specified in Appendix 4 of this approval, unless otherwise approved by the **Planning Secretary**. Alternative transport routes may be considered where they can be shown to be more efficient, if new roads are constructed in the region, where suitable upgrades occur along other transport routes to the Landfill or where they are required to allow waste to be delivered from a new locality.

Note: this condition is linked to condition 6 in schedule 3.

##### Transport Code of Conduct

4. Prior to the receipt of more than 50,000 tpa of regional waste by road at the Landfill, the Proponent shall prepare and implement a Transport Code of Conduct for the project to the satisfaction of the **Planning Secretary**. This protocol must:
  - (a) be prepared in consultation with the RMS, Goulburn Mulwaree Council, **Queanbeyan-Palerang Council** and the Community Liaison Committee, and be submitted to the **Planning Secretary** for approval;
  - (b) describe the measures to be implemented to:
    - minimise the impacts of the project on the local and regional road network including traffic noise;
    - ensure truck drivers only use road shoulders to encourage overtaking at locations where it is acceptable to do so (i.e. in terms of safety and pavement strength), as determined by Council;
    - minimise conflicts with other road users e.g. school bus operators; and
  - (c) include measures to ensure truck drivers are aware of the approved routes for the transport of waste by road.

#### ROAD UPGRADES

##### Queanbeyan-Palerang LGA

5. Within 12 months of the date of this approval, the Proponent shall undertake a detailed pavement analysis/road safety audit of the section of Main Road 268 (Bungendore/Tarago Road) to the south of the intersection of Collector Road and Main Road 268 (Bungendore/Tarago Road) where the bitumen seal of the road is currently less than 7 metres wide. The audit shall:
  - (a) be prepared by a suitably independent and qualified expert whose appointment has been endorsed by the **Planning Secretary**;
  - (b) be prepared in consultation with **Queanbeyan-Palerang Council** and the RMS;
  - (c) establish the mandatory road upgrades and traffic management measures required to address all road pavement and safety issues associated with the project on this section of road; and
  - (d) determine the full cost of undertaking any upgrades, and the Proponent's proportional contribution to these works based on heavy vehicle usage along Main Road 268 (Bungendore/Tarago Road).

Note: the Proponent must submit a copy of this audit to the Department within 2 weeks of its completion. See Appendix 4 for reference to the intersection of Collector Road and Main Road 268.
6. Prior to the receipt of more than 30,000 tpa of regional waste at the Landfill by road from the south of the intersection of Collector Road and Main Road 268 (Bungendore/Tarago Road), the Proponent shall:
  - (a) implement all mandatory pavement and traffic management measures required to address all road pavement/safety issues associated with the project on Main Road 268 (Bungendore/Tarago Road) recommended by the audit required by condition 5 of this schedule; and

- (b) forward fund the full cost of and provide (on Main Road 268 - Bungendore/Tarago Road) any mandatory road upgrades recommended by the audit required by condition 5 of this schedule, to the satisfaction of the **Planning Secretary**.

Note: a mechanism for recovering a proportion of the costs for undertaking any of the above measures is provided in condition 11 of this schedule. See Appendix 4 for reference to the intersection of Collector Road and Main Road 268.

7. In any case, the Proponent shall ensure that all mandatory road upgrades measures provided as part of condition 6 of this schedule are completed prior to the receipt of more than 30,000 tpa of regional waste at the Landfill by road from the south of the intersection of Collector Road and Main Road 268 (Bungendore/Tarago Road).

Note: the Proponent must notify the Department within 2 weeks of the completion of all road upgrades required as part of this condition. See Appendix 4 for reference to the intersection of Collector Road and Main Road 268.

#### Goulburn Mulwaree LGA

8. Prior to the commencement of expanded operations, the proponent shall assess the need for road upgrades, on the section of Main Road 268 (Bungendore/Tarago Road) between the Crisps Creek IMF site access and the intersection of Collector Road and Bungendore/Tarago Road. This assessment shall:

- a) be prepared to the satisfaction of the **Planning Secretary**;
- b) be prepared by a suitably independent and qualified expert whose appointment has been endorsed by the **Planning Secretary** in consultation with RMS;
- c) evaluate the suitability of the provision of a climbing lane or other suitable road upgrade alternative/s on this section of road in terms of road traffic safety and the safety of the Proponent's truck drivers negotiating the right-hand turn into Collector Road;
- d) based on the above, identify the most suitable road upgrade option for this section of road; and, if identified as the most suitable road upgrade option by this condition 8(d)
- e) assess the need for a climbing lane against Austroads Guide to Road Design Part 3: Geometric Design based on heavy vehicle usage associated with the Bioreactor on this section of road.

*Note: Within 2 weeks of its completion, a report on this assessment shall be submitted to the Department for review. See Appendix 4 for reference to the intersection of Collector Road and Main Road 268.*

9. Depending on which road upgrade option is identified as most suitable under condition 8(d) above, prior to the commencement of expanded operations, or a time otherwise agreed to by the **Planning Secretary**, the Proponent shall provide that road upgrade on the above section of Main Road 268 (Bungendore/Tarago Road), to the satisfaction of Goulburn Mulwaree Council.

Note: these works must be provided at no cost to Goulburn Mulwaree Council or RMS.

#### **ROAD MAINTENANCE CONTRIBUTIONS**

10. From the date of this approval, the Proponent shall pay a minimum quarterly contribution of 4.1 cents per kilometre per tonne to:

- (a) **Queanbeyan**-Palerang Council for waste hauled to the Landfill along Palerang Council maintained roads; and
- (b) Goulburn Mulwaree Council for waste hauled to the Landfill along Goulburn Mulwaree Council maintained roads.

The contribution rate shall be adjusted every year from the date of this approval to account for the effects of inflation (RMS Road Cost Index).

11. The Proponent shall receive a reduction in road maintenance contributions paid to **Queanbeyan**-Palerang Council (in cents per kilometre per tonne of waste hauled) as required by condition 10 of this schedule based on the difference between the full cost of undertaking any mandatory road upgrades along Main Road 268 (Bungendore/Tarago Road) and what the Proponent's proportional contribution should be (as determined by the audit required by condition 5 (d) of this schedule) unless other arrangements are made with **Queanbeyan**-Palerang Council, to the satisfaction of the **Planning Secretary**.

Note: at any time either party may refer the matter to the **Planning Secretary** for dispute resolution.



## SCHEDULE 7

### ENVIRONMENTAL MANAGEMENT, REPORTING & AUDITING

#### COMMUNITY LIASON COMMITTEE

1. The Proponent shall continue to operate a Community Liaison Committee (CLC) comprising representatives of the Proponent, the local community, Council and Supervisory Licensee. Representatives of relevant government agencies may be invited to attend meetings of the Committee as required.  
  
The Chairperson and procedures for the Committee including frequency of meetings shall be determined by the Committee.
2. Within six (6) months of the date of this approval, the Proponent must submit details of the CLC members including the Chairperson and frequency of meetings to the Department for the Planning Secretary's endorsement.

#### ENVIRONMENTAL MANAGEMENT

3. The Proponent shall prepare and implement an Environmental Management Plan (EMP) for the Landfill to the satisfaction of the Planning Secretary. This plan must:
  - a) be submitted to the Planning Secretary for approval prior to the commencement of expanded operations;
  - b) be prepared in consultation with the OEH EPA and other relevant agencies by a suitably qualified and experienced expert/s;
  - c) provide the strategic framework for environmental management of the Landfill including all plans specified for inclusion in schedule 4;
  - d) identify the statutory approvals that apply to the Landfill;
  - e) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the Landfill;
  - f) include procedures to keep the local community informed about the operation and environmental management of the Landfill;
  - g) describe the procedure for stakeholder consultation and complaints handling; and
  - h) include a clear plan depicting all the monitoring currently being carried out within and around the Landfill.
4. The Proponent shall prepare and implement an Environmental Management Plan (EMP) for the Crisps Creek IMF to the satisfaction of the Planning Secretary. This plan must:
  - a) be submitted to the Planning Secretary for approval prior to the commencement of expanded operations;
  - b) be prepared in consultation with the OEH EPA and other relevant agencies by a suitably qualified and experienced expert/s;
  - c) provide the strategic framework for environmental management of the Crisps Creek IMF including:
    - i. water management including any surface and groundwater monitoring programs, measures to minimise water use, control soil erosion, prevent groundwater contamination, and comply with any surface water discharge limits;
    - ii. noise management and monitoring protocols for evaluating compliance with the noise impact assessment criteria in this approval;
    - iii. landscaping treatment at the Crisps Creek IMF to minimise visibility of the site from residences and public vantage points;
    - iv. details of the on-going maintenance regime ('Works Plan') for riparian stream rehabilitation and vegetation management along the Mulwaree River;
    - v. identify all threats to the environment and public health that could arise from the operation of the Crisps Creek IMF, measures to minimise these risks and notify the relevant government agencies and community in the event of an emergency;
  - d) identify the statutory approvals that apply to the Crisps Creek IMF;
  - e) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the Crisps Creek IMF;

- f) include procedures to keep the local community informed about the operation and environmental management of the Crisps Creek IMF;
- g) describe the procedure for stakeholder consultation and complaints handling; and
- h) include a clear plan depicting all the monitoring currently being carried out within and around the Crisps Creek IMF.

#### **Annual Environmental Management Review**

5. One (1) year after the commencement of expanded operations, and annually thereafter, the Proponent shall prepare an Annual Environmental Management Report (AEMR) to review the environmental performance of the project to the satisfaction of the **Planning Secretary**. This review must:
  - a) describe the operations that were carried out in the past year;
  - b) analyse the monitoring results and complaints records of the Project over the past year, which includes a comparison of these results against the
    - relevant statutory requirements, limits or performance measures/criteria;
    - monitoring results of previous years; and
    - relevant predictions in the EA;
  - c) identify any non-compliance over the last year, and describe what actions were (or are being) taken to ensure compliance;
  - d) identify any trends in the monitoring data over the life of the Project; and
  - e) describe what measure will be implemented over the next year to improve the environmental performance of the Project.

#### **INDEPENDENT ENVIRONMENTAL AUDIT**

6. Every three (3) years after the first Independent Odour Audit required under condition 7 of schedule 4 of this approval, unless the **Planning 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 a suitably qualified, experienced, and independent team of experts, including both traffic and odour experts, whose appointment has been endorsed by the **Planning Secretary**;
  - b) incorporate and consider the findings/mandatory recommendations of any Independent Odour Audit required by this approval;
  - c) assess the environmental performance of the Project, and its effects on the surrounding environment;
  - d) assess whether the Project is complying with the relevant standards, performance measures, and statutory requirements;
  - e) review the adequacy of any strategy/plan/program required under this approval; and, if necessary,
  - f) recommend measures or actions to improve the environmental performance of the Project, and/or any strategy/plan/program required under this approval.

#### **COMPLAINTS HANDLING PROCEEDURE**

7. Within 6 months of the date of this approval, a Complaints Handling Procedure must be submitted to the **Planning Secretary** for approval. The procedure shall be prepared in consultation with the Department, Goulburn-Mulwaree Council, the EPA and the Community Liaison Committee. The complaints handling procedure must include:
  - a formal complaint/incident reporting procedure;
  - an investigation procedure; and
  - a complaint resolution procedure.

A report of the complaint and the response/action taken to resolve the complaint must be made publicly available on the proponent's website within 7 days of a complaint being made. Note: The level of detail contained in the report of the complaint shall be determined in consultation with the Department, Goulburn-Mulwaree Council, the EPA and the Community Liaison Committee.

- 7A. The Proponent shall provide a report to the Secretary of the complaints received, the response/action taken and timeframe in accordance with Condition 7, on an annual basis which is to be submitted within the AEMR. The report shall include all the matters required within subsections of Condition 7.

## INCIDENT REPORTING

8. Upon detecting an exceedance of the limits/performance criteria in this approval or the occurrence of an incident that causes (or may cause) material harm to the environment, the Proponent shall immediately (or as soon as practical thereafter) notify the Department and other relevant agencies of the exceedance/incident. Within 7 days of the date of the incident, the Proponent shall provide the **Secretary** and any relevant agencies with a detailed report on the incident, and such further reports as may be requested.

## Revision of Plans & Programs

9. Within three (3) months of the submission of any:

- a) audit required under this approval;
- b) incident report under condition 8 of this schedule; or
- c) annual review under condition 5 of this schedule,

The Proponent shall review, and if necessary revise the plans and programs required under this approval to the satisfaction of the **Planning Secretary**.

Note: This is to ensure the plans and programs are updated on a regular basis and incorporate any recommended measures to improve the environmental performance of the Project.

## ACCESS TO INFORMATION

10. From the commencement of expanded operations, the Proponent shall make the following information publicly available on its website as it is progressively required by the approval:
  - a) a copy of all current statutory approvals;
  - b) a copy of the Environmental Management Plan required under this approval;
  - c) a copy of any Annual Environmental Management Report including monitoring results (over the last 5 years);
  - d) a copy of any Independent Environmental **and** ~~or~~ Odour Audit, and the Proponent's response to the recommendations in any audit;
  - e) **report of the complaints and the response/action taken to resolve the complaint as required by Condition 7 of Schedule 7;**
  - f) **a copy of the minutes of the Community Liaison Committee Meetings;** and
  - g) any other matter required by the **Planning Secretary**.