



Appendix B7


Waste and Energy Management Sub-plan

Albion Park Rail bypass (Stage 2 – Princes Motorway between Yallah and Oak Flats)

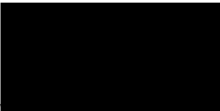
March 2020

Document control

Approval and authorisation

Title	Waste and Energy Management Sub-plan Albion Park Rail bypass (Stage 2 – Princes Motorway between Yallah and Oak Flats)
Accepted on behalf of Transport for NSW by	Peter Chudleigh
Signed	
Dated	31 March 2020

Endorsement

Endorsed by the Environmental Representative	Toby Hobbs
Signed	
Dated	30 March 2020

Document status

Revision	Date	Description	Approval
			
			
			
			
			
			

Distribution of controlled copies

This WEMP as part of the CEMP is available to all personnel and sub-contractors via the Project document control management system. An electronic copy can be found on the Project website.

The document is uncontrolled when printed. One controlled hard copy of the WEMP as part of the CEMP and supporting documentation will be maintained by the Quality Manager at the Project office and on the project website.

Copy number	Issued to	Version

Contents

Contents	1
Glossary/ Abbreviations	0
1 Introduction	2
1.1 Context	2
1.2 Background and project description	2
1.3 Environmental management systems overview	2
1.4 Consultation for preparation of this WEMP	2
2 Purpose and objectives	4
2.1 Purpose	4
2.2 Objectives	4
2.3 Targets	4
2.4 Environmental performance outcomes	4
3 Environmental requirements	6
3.1 Relevant legislation and guidelines	6
3.2 Minister's Conditions of Approval	8
3.3 Revised Environmental Management Measures	10
4 Environmental aspects and impacts	11
4.1 Construction waste streams and energy use	11
4.2 Impacts	12
5 Waste and energy management	13
5.1 Waste management hierarchy	13
5.2 Classification of waste streams	15
5.3 Waste exemptions	15
5.4 Classification of potential waste streams	21
6 Environmental mitigation measures	30
7 Compliance management	32
7.1 Roles and responsibilities	32
7.2 Training	32
7.3 Monitoring and inspections	32
7.4 Auditing	33
7.5 Reporting	33
8 Review and improvement	34
8.1 Continuous improvement	34
8.2 WEMP update and amendment	34

Tables

Table 2-1 Environmental performance outcomes	4
Table 5-1 Resource recovery exemptions	15
Table 5-2 Classification of potential waste streams and targets	22
Table 6-1 Waste and energy management mitigation measures	30
Table 7-1 Monitoring and inspections.....	32

Figures

Figure 5-1 The waste hierarchy.....	13
-------------------------------------	----

Appendices

Appendix A Waste Facilities

Appendix B Waste register (example)

Appendix C Waste Facility Environment Protection Licence Details

Glossary/ Abbreviations

Abbreviations	Expanded text
AQMP	Air Quality Management Sub-plan
CEMP	Construction Environmental Management Plan
CoA	Conditions of approval (state or federal). State CoA are the NSW Minister for Planning's conditions of approval. Federal CoA are the federal Conditions of Approval under the EPBC Act
DP&E	NSW Department of Planning and Environment (now known as Department of Planning, Industry and Environment)
DPIE	Department of Planning, Industry and Environment (DPIE) - All references to DP&E should be interpreted as DPIE (formerly known as DP&E).
EIS	Environmental Impact Statement
ENM	Excavated Natural Material, as defined in The excavated natural material exemption
EPA	NSW Environment Protection Authority
EPI	Environmental Planning Instrument
EPL	Environment Protection Licence
ER	Environmental Representative
EWMS	Environmental work method statement
Non-conformance	Failure to conform to the requirements of Project system documentation including this CEMP or supporting documentation.
POEO Act	Protection of the Environment Operations Act 1997 (NSW)
Project, the	Albion Park Rail bypass
REMM	Revised Environmental Management Measures
RRE	NSW EPA Resource Recovery Exemption
RRO	NSW EPA Resource Recovery Order
Roads and Maritime	Roads and Maritime Services – All references to Roads and Maritime should be interpreted as Transport for NSW (formerly Roads and Maritime Services)
Secretary	Secretary of NSW Department of Planning, Industry and Environment
SPIR	Submissions and Preferred Infrastructure Report - A report developed to respond to submissions raised during the exhibition of the EIS and assess changes from the EIS
SWMP	Soil and Water Management Sub-plan
TfNSW	Transport for NSW
VENM	Virgin Excavated Natural Material
WARR Act	Waste Avoidance and Resource Recovery Act 2001

Abbreviations	Expanded text
WEMP	Waste and Energy Management Sub-plan
WRAPP	Waste Reduction and Purchasing Policy

1 Introduction

1.1 Context

This Waste and Energy Management Sub-plan (WEMP or Plan) forms part of the Construction Environmental Management Plan (CEMP) for the Albion Park Rail bypass (Stage 2 – Princes Motorway between Yallah and Oak Flats) (the Project).

This WEMP has been prepared to address the requirements of the Ministers' Conditions of Approval (CoA), the Albion Park Rail Bypass Environmental Impact Statement (EIS), as amended by the Submissions and Preferred Infrastructure Report (SPIR), including the revised environmental management measures (REMM) listed in the SPIR and all applicable legislation.

1.2 Background and project description

Transport for NSW (formerly Roads and Maritime Services) is extending the M1 Princes Motorway between Yallah and Oak Flats to bypass Albion Park Rail. The motorway completes the 'missing link' for a high standard road between Sydney and Bomaderry. The project is known as the Albion Park Rail bypass. The Albion Park Rail bypass Environmental Impact Statement (2015) assessed the impacts of construction in terms of waste generation/management and energy use, within chapters 19 and 20.

The EIS identified the various waste streams that would be generated during the construction of the Project. These include:

- Timber and green waste
- Demolition waste
- Excavation waste
- Construction waste
- Waste from maintenance activities
- Sewerage and general waste from construction compounds
- Drilling mud
- Greenhouse gases.

The mismanagement of the above waste streams has the potential to result in the following impacts

- Excessive waste being directed to landfill
- Various types of waste being generated and stored on site, with the potential for misclassification or mishandling
- Contaminated waste being incorrectly disposed of
- Pollution of air, land or waters.

The overall impact of construction waste is considered to be manageable and acceptable. Waste would be managed in accordance with statutory, and NSW and Roads and Maritime requirements and procedures.

1.3 Environmental management systems overview

The overall Environmental Management System for the Project is described in Chapter 3 of the CEMP.

The WEMP is part of the Fulton Hogan environmental management framework for the Project, as described in Chapter 4 of the CEMP. Management measures identified in this Plan will be incorporated into site or activity specific Environmental Work Method Statements (EWMS).

EWMS will be developed and signed off by environment and management representatives prior to associated works and construction personnel will be required to undertake works in accordance with the identified mitigation and management measures.

Used together, the CEMP, strategies, procedures and EWMS form management guides that clearly identify required environmental management actions for reference by Fulton Hogan personnel and contractors.

The review and document control processes for this Plan are described in Section 1.6 of the CEMP.

1.4 Consultation for preparation of this WEMP

This WEMP has been developed in consultation with the NSW Environment Protection Authority (EPA). The EPA had no comment on the WEMP.

A summary of consultation undertaken during preparation of this Plan, including copies of all correspondence, is provided in Appendix A5 of the CEMP.

2 Purpose and objectives

2.1 Purpose

The purpose of this Plan is to describe how Fulton Hogan proposes to minimise the amount of waste for disposal, manage waste and reduce energy consumption during construction of the Project.

2.2 Objectives

The key objective of the WEMP is to ensure that waste for disposal and energy use are minimised. To achieve this objective, Fulton Hogan will undertake the following:

- Ensure measures are identified and implemented to minimise waste, manage waste and conserve energy throughout the construction of the project
- Ensure the preferred waste management hierarchy of avoidance, minimisation, reuse, recycling and finally disposal is followed
- Provide staff with an increased level of understanding and awareness of waste and resource use management issues
- Ensure appropriate measures are implemented to address the relevant CoA and revised environmental management measures (REMM) outlined in Table 3-1 and Table 3-2 respectively
- Ensure appropriate measures are implemented to comply with all relevant legislation and other requirements as described in Chapter 3 of this Plan.

2.3 Targets

The following targets have been established for the management of waste and energy consumption during the project:

- Avoid the unnecessary production of waste where practical to do so
- Dispose of waste materials in accordance with legislative requirements
- Minimise / reduce the quantities of resources to be used
- Achieve the waste re-use / recycling targets nominated in Table 5-2.

2.4 Environmental performance outcomes

Table 2-1 identifies the construction-related environmental performance outcomes identified in the EIS as amended by the SPIR and how these will be achieved.

Table 2-1 Environmental performance outcomes

EIS reference	Environmental performance outcome	How achieved
Section 20.2.1 p559	All waste would be managed in accordance with the NSW Waste Classification Guidelines	Section 5.2 Chapter 6 mitigation measure ID WEMM8, WEMM9.
Section 20.2.1 p557	Reuse of vegetation removed as mulch would be prioritised when undertaking landscaping.	Chapter 6 mitigation measure ID WEMM14
Section 20.2.1 p557	Reuse of existing road pavement would be prioritised over offsite disposal.	Chapter 6 mitigation measure ID WEMM17
Section 20.2.1 p557	Recycling of office and construction compound wastes would be prioritised over disposal to landfill.	Chapter 6 mitigation measure ID WEMM11, WEMM16, WEMM18.

EIS reference	Environmental performance outcome	How achieved
Section 20.1 p555	Waste would be managed in accordance with the NSW Waste Avoidance and Resource Recovery Act 2001 and the NSW Protection of the Environment Operations Act 1997.	Section 5.1.5 Section 5.2 Chapter 6 mitigation measure ID WEMM1, WEMM3, WEMM8, WEMM9.

3 Environmental requirements

3.1 Relevant legislation and guidelines

3.1.1 Legislation

Legislation and regulations relevant to waste and energy management includes:

- *Protection of the Environment Operations Act 1997* (POEO Act)
- *Protection of the Environment Operations (General) Regulation 2009*
- *Protection of the Environment Operations (Waste) Regulation 2014*
- *Waste Avoidance and Resource Recovery Act 2001* (WARR Act)
- *Contaminated Land Management Act 1997*
- *National Greenhouse and Energy Reporting Act 2007*
- *Environmentally Hazardous Chemicals Act 1985*

Relevant provisions of the above legislation are explained in the register of legal and other requirements included in Appendix A1 of the CEMP.

3.1.2 Guidelines and standards

The main guidelines, specifications and policy documents relevant to this Plan include:

- Best Practice Waste Reduction Guidelines for the Construction and Demolition Industry (tools for Practice), Natural Heritage Trust, 2000
- Waste Avoidance and Resource Recovery Strategy 2007 (DECC, 2007)
- NSW Government Resource Efficiency Policy (Office of Environment and Heritage, 2014c)
- Greenhouse Gas Protocol – A Corporate Accounting and Reporting Standard, Revised Edition (World Resources Institute / World Business Council for Sustainable Development, 2004)
- National Greenhouse and Energy Reporting (Measurement) Determination 2008 (Department of Environment, 2014a)
- National Greenhouse and Energy Reporting System Measurement: Technical Guidelines for the Estimation of Greenhouse Gas Emissions by Facilities in Australia (Department of the Environment, 2014b)
- National Greenhouse Accounts Factors (Department of the Environment, 2014c)
- Environmental Procedure – Management of Waste on Roads and Maritime Service Land (Roads and Maritime, 2014c)
- Waste Management Guide for Road Construction and Maintenance (Roads and Maritime, unpublished)
- Waste Classification Guidelines (Environment Protection Authority, 2014).

In addition the following EPA resource recovery exemptions may apply:

- The excavated natural material exemption 2014
- The excavated public road material exemption 2014
- The mulch exemption 2016
- The recovered aggregate exemption 2014
- The stormwater exemption 2014
- The treated drilling mud exemption 2014.

Any specific resource recovery exemptions that may apply to the project 's lawful reuse under the NSW *Protection of the Environment Operations (Waste) Regulation 2014*.

3.2 Minister's Conditions of Approval

The CoA relevant to this Plan are listed in Table 3-1 below. A cross reference is also included to indicate where the condition is addressed in this Plan or other Project management documents.

Table 3-1 Conditions of Approval relevant to the WEMP

CoA No.	Condition Requirements	Document Reference
CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN		
C5	The CEMP Sub-plans must state how:	
(a)	The environmental performance outcomes identified in the EIS as amended by the SPIR as modified by these conditions will be achieved	Section 2.4.
(b)	the mitigation measures identified in the EIS as amended by the SPIR as modified by these conditions will be implemented;	Through the implementation of this WEMP (in particular refer to Section 3.3).
(c)	the relevant terms of this approval will be complied with (in particular Part E of this approval);	Through the implementation of this WEMP (in particular refer to Part E condition cross references below).
(d)	the identification of the relevant environmental specific training and induction processes for construction personnel; and	Section 7.2
(e)	issues requiring management during construction, as identified through ongoing environmental risk analysis, will be managed.	Chapter 4 second paragraph Chapter 6
C6	The CEMP Sub-plans must be developed in consultation with relevant government agencies identified in Table 3 of Condition C4 of this approval. Where an agency(ies) request(s) is not included, the Proponent must provide the Secretary justification as to why. Details of all information requested by an agency to be included in a CEMP Sub-plan as a result of consultation, including copies of all correspondence from those agencies, must be provided with the relevant CEMP Sub-Plan .	Section 1.4
C7	Any of the CEMP Sub-plans may be submitted to the Secretary for approval along with, or subsequent to, the submission of the CEMP but in any event, no later than one (1) month before commencement of construction.	CEMP (main section) Section 1.4
C8	Construction must not commence until the CEMP and all CEMP Sub-plans have been approved by the Secretary. The CEMP and CEMP Sub-plans , as approved by the Secretary, including any minor amendments approved by the ER must be implemented for the duration of construction. Where the SSI is being staged, construction of that stage is not to commence until the relevant CEMP and sub-plans have been approved by the Secretary, unless otherwise agreed by the Secretary.	CEMP (main section) Section 1.4
PART E - WASTE		
E84	Waste generated in the delivery of the SSI must be dealt with in accordance with the following priorities:	
(a)	waste generation is to be avoided and where avoidance is not reasonably practicable, waste generation is to be reduced;	Section 5.1 Table 5-2 Chapter 6 mitigation measure ID WEMM1

CoA No.	Condition Requirements	Document Reference
(b)	where avoiding or reducing waste is not possible, waste is to be re-used, recycled, or recovered; and	Section 5.1 Table 5-2 Chapter 6 mitigation measure ID WEMM1
(c)	where re-using, recycling or recovering waste is not possible, waste is to be treated or disposed of at a waste management facility or premises lawfully permitted to accept the materials.	Section 5.1 Chapter 6 mitigation measure ID WEMM1
E85	Waste generated outside the site must not be received at the site for storage, treatment, processing, reprocessing, or disposal on the site, except as expressly permitted by a licence or waste exemption under the <i>Protection of the Environment Operations Act 1997</i> , if such a licence is required in relation to that waste.	Chapter 6 mitigation measure ID WEMM3
E86	All waste materials removed from the SSI site must only be directed to a waste management facility or premise lawfully permitted to accept the materials or in accordance with a Resource Recovery Exemption or Order issued under the <i>Protection of the Environment Operations (Waste) Regulation 2014</i> , or to any other place that can lawfully accept such waste.	Sections 5.1.5, 5.3, 5.4 Chapter 6 mitigation measure ID WEMM8
E87	All waste must be classified in accordance with the EPA's <i>Waste Classification Guidelines</i> , with appropriate records and disposal docketts retained for audit purposes.	Section 5.2 Chapter 6 mitigation measure ID WEMM8, WEMM9, WEMM10.

3.3 Revised Environmental Management Measures

Relevant REMM from the SPIR are listed in table 3-2 below. This includes a cross reference as to where the measure is addressed in this Plan or other Project management documents.

Table 3-2 Revised environmental management measures relevant to this WEMP

ID No.	Revised environmental management measure	Document Reference
WM01	A Resource and Waste Management Plan will be prepared to identify the hierarchy for sourcing and the use of resources. The plan will adopt the Resource Management Hierarchy principles of the <i>Waste Avoidance and Resource Recovery Act 2001</i> , Roads and Maritime Services waste management procedures and Environmental Management System. The plan will include, but not be limited to:	This WEMP Section 5.4
	<ul style="list-style-type: none"> • Identification of the waste stream that will be generated during construction 	Section 5.1.5 Chapter 6 mitigation measure ID WEMM10. Appendix B Waste register
	<ul style="list-style-type: none"> • A waste register detailing types of waste collected, amounts, date, time, transportation method and details of disposal 	Section 5.4
	<ul style="list-style-type: none"> • A resource management strategy detailing beneficial reuse options for surplus and/ or unsuitable material 	Chapter 6 mitigation measure ID WEMM1, WEMM4, WEMM5, WEMM6, WEMM11.
SW04	An emergency spill response procedure will be prepared to minimise the impact of any accidental spills, and include details on the requirements for managing spills, disposing of any contaminated waste, and reporting of any such incidents.	Incident and Emergency Response Plan Table 5-2 for disposal of spill kit materials Chapter 6 mitigation measure ID WEMM8 – WEMM12 for disposal CEMP (main section) Section 3.6 for incident reporting
BD02	The detailed design and construction planning will demonstrate that it has sought to minimise the extent of vegetation clearing within the project boundary. The detailed design will demonstrate it has minimised the amount of clearing of the Eastern Flame Pea and endangered ecological communities in particular.	Detailed design FFMP Chapter 6 mitigation measure ID FFMM1, FFMM2, FFMM3, FFMM6, FFMM7, FFMM8.
GH01	The procurement strategy developed for the construction phase will demonstrate value for money and that it has considered opportunities to procure goods and services:	Chapter 6 mitigation measure ID WEMM23
	<ul style="list-style-type: none"> • From local suppliers 	Chapter 6 mitigation measure ID WEMM21
	<ul style="list-style-type: none"> • That are energy efficient or have low embodied energy 	Chapter 6 mitigation measure ID WEMM1-WEMM18
	<ul style="list-style-type: none"> • That minimise the generation of waste 	

ID No.	Revised environmental management measure	Document Reference
	<ul style="list-style-type: none"> That make use of recycled materials 	Chapter 6 mitigation measure ID WEMM12, WEMM16, WEMM17

4 Environmental aspects and impacts

The key construction activities and the associated potential sources of waste and energy consumption are identified through a risk management approach. The consequence and likelihood of each activity's impact on the environment has been assessed to prioritise its significance. The results of this risk assessment are included in Appendix A2 of the CEMP.

Ongoing environmental risk analysis during construction will be undertaken through regular monitoring, inspections and auditing as described in Chapter 7.

4.1 Construction waste streams and energy use

The following construction related waste streams have been identified:

- Timber and green waste
- Demolition wastes from existing structures including road pavement, the facilities to be relocated at Croom Regional Sporting Complex, buildings and associated structures, drainage, utility infrastructure and waste materials defined under the Excavated Public Roads Material Resource Recovery Order (RRO) and Exemption (RRE).
- Excavation wastes
- Vegetation from removal of shrubs and trees
- Packaging materials associated with items delivered to site such as pallets, crates, cartons, plastics and wrapping materials
- Wastes produced from the maintenance of various heavy construction equipment including liquid hazardous wastes from cleaning, repairing and maintenance
- Non-hazardous wastes would be generated through the use of worker's facilities such as toilets
- General wastes including office wastes, scrap materials and biodegradable wastes
- Drilling mud.

The following sources of construction related energy consumption (fuel and power) have been identified:

- Procurement and delivery of materials to site
- Vegetation removal
- Site establishment, including compound set up
- Relocation and protection of services
- Earthworks including earth and rock cuttings and retaining walls
- Removal, relocation and compaction of excavated material in fill embankments
- Construction of pavements, bridges and culverts
- Demolition of structures and pavements
- Operation of batching plants, site compounds and lighting
- Construction plant including cranes, rollers, excavators, bulldozers, graders and water trucks
- Removal of waste from the site.

4.2 Impacts

The potential environmental impacts associated with construction waste generation and energy use include:

- Generation of construction waste, such as excavated soil and rock
- Generation of vegetation waste from corridor clearing
- Generation of domestic waste from construction personnel
- Inappropriate disposal of hazardous waste
- Generation or spread of contaminated waste/soils, e.g. groundwater, used or expired chemicals, or construction materials
- Water pollution due to sediment runoff from soil excavation and excess spoil storage
- Weed infestation from dispersion of seeds and so forth during clearing and access upgrading activities
- Consumption of non-renewable resources such as energy, diesel and other chemicals
- Greenhouse gas emissions due to consumption of energy from non-renewable resources.
- Mixing of suitable and unsuitable material leading to materials that would have ordinarily been reused being rendered as waste.

5 Waste and energy management

5.1 Waste management hierarchy

The WARR Act ensures that resource management options are considered against a hierarchy of:

- avoidance of unnecessary resource consumption
- resource recovery (including reuse, recycling, reprocessing, and energy recovery), and
- disposal.

Refer to Figure 5-1 for the most recent waste hierarchy provided by the EPA in the NSW Waste Avoidance and Resource Recovery Strategy 2013-21, 2013.

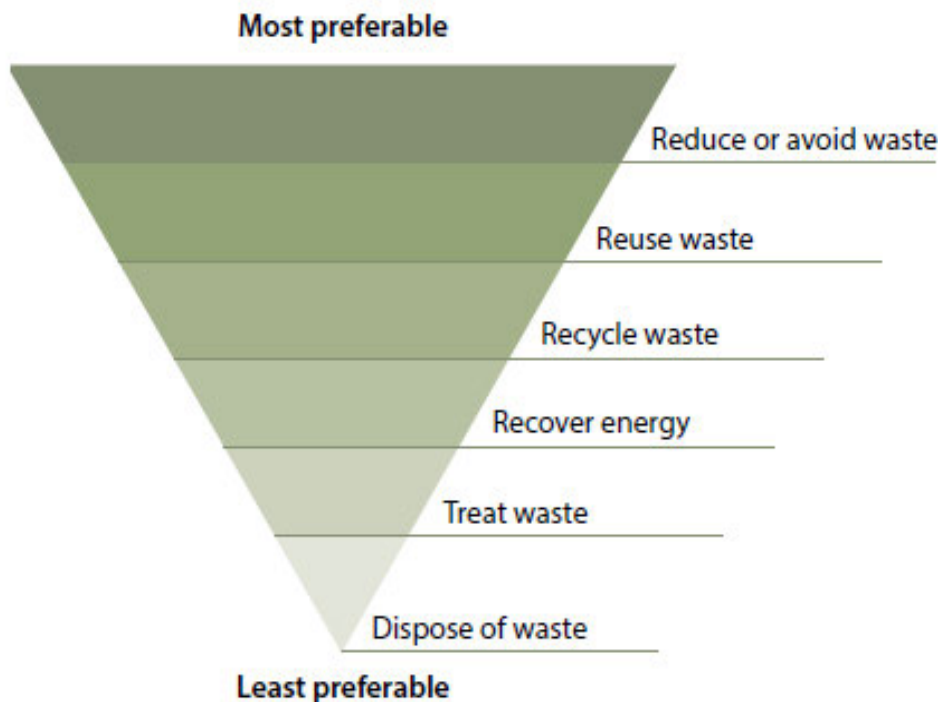


Figure 5-1 The waste hierarchy

The steps in the waste hierarchy most relevant to the Project are briefly described below.

5.1.1 Reduce or avoid waste

Reducing or avoiding the generation of waste is of primary importance to the Project. The following approach will be adopted:

- Consider construction options that have a higher waste reduction capacity than alternatives.
- Order material/ goods with minimal packaging or request suppliers to remove packaging from site.
- Order materials in bulk to minimise the amount of packaging required.
- Order materials that have sustainable packaging design, such as recycled and recyclable packaging, over other materials where cost effective.
- Accurately estimate materials required to minimise wastage of product.

5.1.2 Reuse and recycle waste

Waste separation and segregation will be promoted onsite to facilitate reuse and recycling as a priority of the waste management program as follows:

- Deconstruct houses, redundant services and other structures where practicable, rather than demolishing, to allow as much material as possible to be reused or recycled offsite.

- Segregate waste onsite – waste materials, including spoil, demolition waste, mulch and green waste will be separated onsite into dedicated bins/ areas for either reuse onsite or collection by a waste contractor and transported to offsite facilities
- Separate waste offsite – wastes will be deposited into one bin where space is not available for placement of multiple bins/receptacles, and the waste will be sorted offsite by a waste contractor.

5.1.3 Reduce energy consumption

The Project Team will reduce greenhouse gases by adopting energy efficient work practices where reasonable and feasible such as:

- develop and implement procedures to minimise energy use
- conduct awareness programs for all site personnel regarding energy conservation methods.
- use energy efficient lighting e.g. LEDs in all office/compound facilities
- use motion detection and light sensors or standalone solar-powered lamp posts for external facility lighting

5.1.4 Handling and storage of waste

Where waste is required to be handled and stored onsite prior to onsite reuse or offsite recycling/ disposal, the following measures will apply:

- Spoil, topsoil and mulch will be stockpiled onsite in allocated areas, where appropriate, and mitigation measures for dust control and surface water management will be implemented in accordance with the Air Quality Management Sub-plan (AQMP) and the Soil and Water Management Sub-plan (SWMP).
- Contaminated spoil will be classified in accordance with the *Waste Classification Guidelines* (EPA, 2014) and disposed of at an appropriately licensed waste facility in accordance with the premises' Environment Protection Licence (EPL). In the event unexpected contamination is identified the *Unexpected contaminated land and asbestos finds procedure* (CoA E60) will be implemented.
- Manage and reuse acid sulfate soils on site where possible in accordance with the SWMP and *Waste Classification Guidelines: Part 4: Acid sulfate soils* (EPA, 2014).
- Asbestos waste will be handled in accordance with the Fulton Hogan Work Health Safety Management Plan. If asbestos waste is encountered, the *Unexpected contaminated land and asbestos finds procedure* (CoA E60) will be followed. SafeWork NSW licensed asbestos removalists will be engaged to handle, manage and remove the waste. Asbestos waste will be transported and disposed of at an appropriately licensed waste facility in accordance with the premises' EPL and the *Waste Classification Guidelines* (EPA, 2014), unless encapsulation or other means of containment is deemed appropriate and managed in accordance with a site specific Remediation Action Plan (RAP) which is prepared under the guidance of a NSW EPA accredited Contaminated Sites Auditor. Liquid wastes will be stored in appropriate containers in bunded areas until transported offsite. Bunded areas will have the capacity to hold 110% of the liquid waste volume for bulk storage or 120% of the volume of the largest container for smaller packaged storage.
- Hazardous waste will be managed by appropriately qualified and licensed contractors, in accordance with the requirements of the *Environmentally Hazardous Chemicals Act 1985*, the EPA *Waste Classification Guidelines* (2014) and the Fulton Hogan Work Health and Safety Management Plan.
- All other recyclable or non-recyclable wastes will be stored in appropriate covered receptacles (e.g. bins or skips) in appropriate locations onsite and subcontractors commissioned to regularly remove/ empty the bins to approved disposal or recycling facilities.

5.1.5 Disposal of waste

Waste disposal will be in accordance with the POEO Act and the WARR Act. Wastes that are unable to be reused or recycled will be disposed of offsite to an appropriately licensed waste facility following classification (refer to Section 5.2).

Appendix A outlines the waste facilities in the vicinity of the Project that may be utilised during construction. Details of waste types, volumes, dates and destinations will be recorded in the Waste Register contained in Appendix B.

All waste removed from site for disposal or reuse/recycling will be transported by trucks on regional or main roads that are designated for truck movements. Transport of waste will be undertaken by appropriately licensed contractors.

The Construction Manager in consultation with the Environmental Manager will verify licenses and permits prior to handling, transportation and disposal of waste. Copies of relevant Environment Protection Licences for facilities accepting wastes generated by the project are contained in Appendix C.

5.2 Classification of waste streams

Where waste cannot be avoided, reused or recycled it will be classified and appropriate disposal will then occur. The classification of waste is undertaken in accordance with the *Waste Classification Guidelines* (EPA, 2014). This document identifies six classes of waste: Special, Liquid, Hazardous, Restricted Solid, General Solid (putrescible) and General Solid (non-putrescible), and describes a six step process to classifying waste.

The general classification principles are as follows:

- If a special waste is mixed with another waste, the waste must be managed to meet the requirements of both the special wastes and the other class of waste.
- If asbestos waste is mixed with any other class of waste, all of the waste must be classified as asbestos waste.
- If liquid waste is mixed with hazardous or solid waste and retains the defined characteristics of liquid waste, it remains liquid waste.
- Two or more classes of waste must not be mixed in order to reduce the concentration of chemical contaminants. Dilution is not an acceptable waste management option.
- Where practicable, it is desirable to separate a mixture of wastes before classifying them.

5.3 Waste exemptions

Clause 51 of the *Protection of the Environment Operations (Waste) Regulation 2014* enables the EPA to grant exemptions to the licensing and payment of levies for the land application or use of waste. The EPA has issued general exemptions for a range of commonly recovered, high volume and well characterised waste materials that allow their use as fill or fertiliser at unlicensed, off-site facilities, provided all conditions are met. The general 'Resource Recovery Exemptions' that may be applicable to this project are outlined in Table 5-1 below. These are general gazette exemptions that do not require approval. A specific exemption may be granted where an application is made to the EPA.

Table 5-1 Resource recovery exemptions

Exemption	General Conditions
The effluent order 2014	The order imposes conditions that the supplier of effluent must follow.
The effluent exemption 2014	The effluent can only be applied to land as a soil amendment or for the purposes of irrigation. The consumer must land apply the effluent within a reasonable period of time.
The excavated natural material order 2014	The order imposes sampling requirements, chemical and other material requirements, test methods, notification, record keeping and reporting that suppliers of excavated natural materials must follow.

Exemption	General Conditions
<p>The excavated natural material exemption 2014</p>	<p>At the time the excavated natural material is received at the premises, the material must meet all chemical and other material requirements for excavated natural material which are required on or before the supply of excavated natural material under 'the excavated natural material order 2014'.</p> <p>The excavated natural material can only be applied to land as engineering fill or for use in earthworks. The consumer must keep a written record of the following for a period of six years:</p> <ul style="list-style-type: none"> • The quantity of any excavated natural material received • The name and address of the supplier of the excavated natural material received. <p>The consumer must make any records required to be kept under this exemption available to authorised officers of the EPA on request.</p> <p>The consumer must ensure that any application of excavated natural material to land must occur within a reasonable period of time after its receipt.</p> <p>Note: This exemption does not apply to any waste that contains coal tar or asbestos, or any waste that is classified as hazardous, restricted solid, special or liquid waste as defined in the Act.</p>
<p>The excavated public road material order 2014</p>	<p>The requirements in the order apply to the supply of excavated public road material for application to land within the road corridor for public road related activities including road construction, maintenance and installation of road infrastructure facilities.</p>
<p>The excavated public road material exemption 2014</p>	<p>The excavated public road material can only be applied to land within the road corridor for public road related activities including road construction, maintenance and installation of road infrastructure facilities.</p> <p>The excavated public road material can only be stored within the road corridor at the site where it is to be applied to land.</p> <p>The excavated public road material cannot be applied to private land.</p> <p>The consumer must ensure that any application of excavated public road material to land must occur within a reasonable period of time after its receipt</p>
<p>The mulch order 2016</p>	<p>The requirements in the order apply to the supply of mulch for application to land as a soil amendment.</p> <p>On or before supplying raw mulch, the processor must ensure that:</p> <ul style="list-style-type: none"> • the mulch does not contain asbestos, engineered wood products, preservative treated or coated wood residues, or physical contaminants, including but not limited to glass, metal, rigid plastics, flexible plastics, or polystyrene. • the mulch is ready for land application.
<p>The mulch exemption 2016</p>	<p>At the time mulch is received at the premises, the material must meet all requirements for mulch which are required on or before the supply of mulch under 'the mulch order 2016'.</p> <p>Where written measures for the land application of mulch are required under 'the mulch order 2016', a processor must provide these to the consumer. The consumer must apply the mulch to land in accordance with the written measures.</p> <p>The consumer must ensure that they do not cause or permit the migration of leachate from the land application site.</p> <p>The consumer must not undertake further processing of the mulch at the land application site.</p> <p>The consumer must ensure that any application of mulch to land occurs within a reasonable period of time after its receipt.</p> <p>Note: Adverse environmental impacts are associated with the land application of mulch such as the spreading of weeds, diseases, and pests. The EPA recommends a distance of at least 100m be maintained between the land upon which mulch is applied and environmentally sensitive areas.</p>

Exemption	General Conditions
The reclaimed asphalt pavement order 2014	The requirements in the order apply in relation to the supply of reclaimed asphalt pavement for application to land for road maintenance activities, being use as a road base and sub base, applied as a surface layer on road shoulders and unsealed roads, and use as an engineering fill. The requirements in the order also apply to the supply of reclaimed asphalt pavement for use as an alternative raw material in the manufacture of asphalt.
The reclaimed asphalt pavement exemption 2014	<p>The reclaimed asphalt pavement can only be:</p> <ul style="list-style-type: none"> • applied to land for road related activities including road construction or road maintenance activities being: <ul style="list-style-type: none"> ◦ (a) use as a road base and sub base, ◦ (b) applied as a surface layer on road shoulders and unsealed roads, and ◦ (c) use as an engineering fill material • used as an alternative input into thermal processes for non-energy recovery purposes in the manufacture of asphalt. <p>The consumer must ensure that any application of reclaimed asphalt pavement to land or any use of reclaimed asphalt pavement in connection with a process of thermal treatment must occur within a reasonable period of time after its receipt.</p>
The recovered aggregate order 2014	The requirements in the order apply to the supply of recovered aggregate for application to land as a road making material, or in building, landscaping or construction works.
The recovered aggregate exemption 2014	<p>At the time the recovered aggregate is received at the premises, the material must meet all chemical and other material requirements for recovered aggregate which are required on or before the supply of recovered aggregate under 'the recovered aggregate order 2014'.</p> <p>The recovered aggregate can only be applied to land in road making activities, building, landscaping and construction works. This approval does not apply to any of the following applications: 7.2.1. Construction of dams or related water storage infrastructure,</p> <ul style="list-style-type: none"> • Mine site rehabilitation, • Quarry rehabilitation, • Sand dredge pond rehabilitation, • Back filling of quarry voids, • Raising or reshaping of land used for agriculture, and • Construction of roads on private land unless: <ul style="list-style-type: none"> ◦ (a) the recovered aggregate is applied only to the minimum extent necessary for the construction of the road, and ◦ a development consent has been granted under the relevant Environmental Planning Instrument (EPI), or ◦ (c) it is to provide access (temporary or permanent) to a development approved by a Council, or ◦ (d) the works are either exempt or complying development. <p>The consumer must keep a written record of the following for a period of six years:</p> <ul style="list-style-type: none"> • the quantity of any recovered aggregate received; and • the name and address of the supplier of the recovered aggregate received. <p>The consumer must make any records required to be kept under this exemption available to authorised officers of the EPA on request.</p> <p>The consumer must ensure that any application of recovered aggregate to land must occur within a reasonable period of time after its receipt.</p>

Exemption	General Conditions
The stormwater order 2014	The requirements in the order apply to the supply of stormwater for application to land.
The stormwater exemption 2014	<p>The stormwater can only be applied to land within the definitions of "application to land".</p> <p>The consumer must ensure that any application of stormwater to land must occur within a reasonable period of time after its receipt.</p>
The treated drilling mud order 2014	The requirements in the order apply in relation to the supply of treated drilling mud for application to land as engineering fill or for use in earthworks.
The treated drilling mud exemption 2014	<p>At the time the treated drilling mud is received at the premises, the material must meet all chemical and other material requirements for treated drilling mud which are required on or before the supply of treated drilling mud under 'the treated drilling mud order 2014'.</p> <p>The treated drilling mud can only be applied to land as engineering fill or for use in earthworks.</p> <p>The consumer must keep a written record of the following for a period of six years:</p> <ul style="list-style-type: none"> • the quantity of any treated drilling mud received; and • the name and address of the supplier of the treated drilling mud received. <p>The consumer must make any records required to be kept under this exemption available to authorised officers of the EPA on request.</p> <p>The consumer must ensure that any application of treated drilling mud to land must occur within a reasonable period of time after its receipt.</p>
The compost order 2016	The requirements in the order apply in relation to the supply of compost for application to land as a soil amendment.
The compost exemption 2016	<p>At the time the compost is received at the premises, the material must meet all chemical and other material requirements for compost which are required on or before the supply of compost under 'the compost order 2014'.</p> <p>The compost can only be applied to land as a soil amendment.</p> <p>The consumer must ensure that they do not cause or permit the migration of leachate from the land application site.</p> <p>The consumer must ensure that any application of compost to land must occur within a reasonable period of time after its receipt.</p>
The coal washery rejects order 2014	The requirements in the order apply in relation to the supply of coal washery rejects for application to land in earthworks for civil engineering applications.

Exemption	General Conditions
<p>The coal washery rejects exemption 2014</p>	<p>At the time the coal washery rejects are received at the premises, the material must meet all chemical and other material requirements for coal washery rejects which are required on or before the supply of coal washery rejects under 'the coal washery rejects order 2014'.</p> <p>The coal washery rejects can only be applied to land in earthworks for civil engineering applications. Approval does not apply to any of the following applications:</p> <ul style="list-style-type: none"> • Construction of dams or related water storage infrastructure, • Mine site rehabilitation, • Quarry rehabilitation, • Sand dredge pond rehabilitation, • Back-filling of quarry voids, • Raising or reshaping of land used for agricultural purposes, and • Construction of roads on private land unless: <ul style="list-style-type: none"> ◦ (a) the coal washery rejects are applied to land to the minimum extent necessary for the construction of a road, and ◦ (b) a development consent for the development has been granted under the relevant Environmental Planning Instrument (EPI), or ◦ (c) it is to provide access (temporary or permanent) to a development approved by a Council, or ◦ (d) the works undertaken are either exempt or complying development. 7.3. The consumer can only apply coal washery rejects to land where it is not applied in or beneath water, including groundwater. <p>The consumer must keep a written record of the following for a period of six years:</p> <ul style="list-style-type: none"> • the quantity of any coal washery rejects received; and • the name and address of the supplier of the coal washery rejects received. <p>The consumer must make any records required to be kept under this exemption available to authorised officers of the EPA on request.</p> <p>The consumer must ensure that any application of coal washery rejects to land must occur within a reasonable period of time after its receipt.</p>
<p>The blast furnace slag order 2014</p>	<p>The requirements in the order apply to the supply of blast furnace slag and blended blast furnace slag for application to land in line with the uses described in 'the blast furnace slag exemption 2014'.</p>

Exemption	General Conditions
<p>The blast furnace slag exemption 2014</p>	<p>At the time the blast furnace slag or blended blast furnace slag is received at the premises, the material must meet all chemical and other material requirements for blast furnace slag or blended blast furnace slag which are required on or before the supply of blast furnace slag or blended blast furnace slag under 'the blast furnace slag order 2014'.</p> <p>The blast furnace slag or blended blast furnace slag can only be applied to land:</p> <ul style="list-style-type: none"> • in cementitious mixes such as concrete; and • in a non-cementitious mix such as an engineered fill in earthworks or for roadmaking activities as follows: <ul style="list-style-type: none"> ◦ (a) asphalt aggregate, ◦ (b) engineered pavements (base and sub-base course), ◦ (c) engineered fill, ◦ (d) filter aggregate. <p>In cementitious mixes, the consumer can only apply blended blast furnace slag to land where it complies with a relevant specification or Australian Standard or supply agreement.</p> <p>In non-cementitious mixes the consumer can only apply blast furnace slag or blended blast furnace slag to land where it:</p> <ul style="list-style-type: none"> • complies with the relevant specification or Australian Standard or complies with supply agreement/s, or • complies with a development consent that specifically considers the use of blast furnace slag, and • is not applied in or beneath water, including groundwater. <p>The consumer must keep a written record of the following for a period of six years:</p> <ul style="list-style-type: none"> • the quantity of any blast furnace slag or blended blast furnace slag received; and • the name and address of the supplier of the blast furnace slag and blended blast furnace slag received. 7.6. The consumer must make any records required to be kept under this exemption available to authorised officers of the EPA on request. <p>The consumer must apply blast furnace slag or blended blast furnace slag to land within a reasonable period of time after its receipt.</p>

5.4 Classification of potential waste streams

The construction activities and types of wastes that may be generated during construction are outlined in Table 5-2. This table also identifies expected volumes, preferred reuse/recycling/disposal methods and reuse/recycling targets depending on the waste classification. Waste classification was determined based on the six step process provided in the *Waste Classification Guidelines* (EPA, 2014). For additional information refer to Section 5.2 of this WEMP.

Table 5-2 Classification of potential waste streams and targets

Activity	Waste Type	Waste Classification	Approx. Volume/ Quantity	Proposed reuse/ recycling/ disposal methods	Reuse / Recycle Target	Comments
Geotechnical investigations and surveys	Drilling mud (that has been dewatered)	Subject to chemical assessment (if material is to be taken offsite)	150m ³	Reuse onsite – Reincorporate drilling mud into the works. Resource recovery offsite - Reuse, recycling, reprocessing or energy recovery at an appropriately licensed waste facility in accordance with the premises' EPL and the <i>Waste Classification Guidelines</i> (EPA, 2014). Reuse offsite – Apply treated drilling mud to land at unlicensed premises where there is full compliance with <i>'The treated drilling mud exemption 2014'</i> .	100%	In order for an exemption to apply, all the conditions of the exemption must be met. These conditions include, but are not limited to, sampling and testing requirements, chemical thresholds, use restrictions and record keeping requirements. The <i>'Notice under Section 143'</i> form must be completed where material is taken offsite to unlicensed premises in accordance with Section 143(3A) of the POEO Act.
	Drilling fluid (vegetable based)	Liquid waste (pre-classified by the EPA)	60,000L (600L /drill hole x 100 holes)	Recycling onsite – recycle back into drill hole.	100%	In the event that disposal offsite is required, this will occur at an appropriately licensed waste facility in accordance with the premises' EPL and the <i>Waste Classification Guidelines</i> (EPA, 2014)
General demolition, including of houses	Concrete, bricks, ceramics	General solid waste (non-putrescible) (pre-classified by the EPA)	1,800m ³	Reuse onsite - If suitable, crush and use as backfill/ road base. Resource recovery offsite - Reuse, recycling, reprocessing or energy recovery at an appropriately licensed waste facility in accordance with the premises' EPL and the <i>Waste Classification Guidelines</i> (EPA, 2014) Reuse offsite – Apply concrete to land at unlicensed premises where there is full compliance with <i>'The recovered aggregate exemption 2014'</i> .	100%	In order for an exemption to apply, all the conditions of the exemption must be met. These conditions include, but are not limited to, sampling and testing requirements, chemical thresholds, use restrictions and record keeping requirements. The <i>'Notice under Section 143'</i> form must be completed where material is taken offsite to unlicensed premises in accordance with Section 143(3A) of the POEO Act.
	General demolition, including of	Asphalt (that contains no coal tar)	General solid waste (non-putrescible)	20,026m ³	Reuse onsite - If suitable, use as backfill/ road base or for access roads. Resource recovery offsite - Reuse, recycling, reprocessing or energy recovery at an appropriately licensed	100%	As above.

Activity	Waste Type	Waste Classification	Approx. Volume/ Quantity	Proposed reuse/ recycling/ disposal methods	Reuse / Recycle Target	Comments
houses (continued)		(pre-classified by the EPA)		waste facility in accordance with the premises' EPL and the <i>Waste Classification Guidelines</i> (EPA, 2014). Reuse offsite – Apply asphalt to land for road making activities, building, landscaping and construction works at an unlicensed premises where there is full compliance with 'The recovered aggregate exemption 2014'.		
	Scrap metal	General solid waste (non-putrescible) (pre-classified by the EPA)	50 tonnes	Resource recovery offsite - Reuse, recycling, reprocessing or energy recovery at an appropriately licensed waste facility in accordance with the premises' EPL and the <i>Waste Classification Guidelines</i> (EPA, 2014)	100%	Nil.
	Glass	General solid waste (non-putrescible) (pre-classified by the EPA)	10 tonnes	Resource recovery offsite - Reuse, recycling, reprocessing or energy recovery at an appropriately licensed waste facility in accordance with the premises' EPL and the <i>Waste Classification Guidelines</i> (EPA, 2014)	100%	Nil.
	Timber	General solid waste (non-putrescible) (pre-classified as 'building and demolition waste' by the EPA)	150 tonnes	Resource recovery offsite - Reuse, recycling, reprocessing or energy recovery at an appropriately licensed waste facility in accordance with the premises' EPL and the <i>Waste Classification Guidelines</i> (EPA, 2014)	100%	Nil.
General demolition, including of	Plasterboard	General solid waste (non-putrescible)	90 tonnes	Resource recovery offsite - Reuse, recycling, reprocessing or energy recovery at an appropriately licensed waste facility in accordance with the premises' EPL and the <i>Waste Classification Guidelines</i> (EPA, 2014)	100%	Nil.

Activity	Waste Type	Waste Classification	Approx. Volume/ Quantity	Proposed reuse/ recycling/ disposal methods	Reuse / Recycle Target	Comments
houses (continued)		(pre-classified by the EPA)				
	Asbestos	Special waste (Asbestos) (pre-classified by the EPA)	150 tonnes	Disposal offsite – disposal at an appropriately licensed waste facility in accordance with the premises' EPL and the <i>Waste Classification Guidelines</i> (EPA, 2014)	0%	Asbestos waste will be handled in accordance with the <i>Fulton Hogan Work Health Safety Management Plan</i> . If asbestos waste is encountered, SafeWork NSW licensed asbestos removalists will be engaged to handle, manage and remove the waste. Note - Only bonded asbestos may be received at some premises. There may also be limits on the quantity of asbestos that can be stored on some premises at any time.
Clearing and grubbing	Native vegetation (branches, loppings, tree trunks, tree stumps)	General solid waste (non-putrescible) (pre-classified by the EPA as 'garden waste')	25 ha	Reuse onsite – Reuse felled habitat trees and woody debris in accordance with <i>Guide 5: Re-use of woody debris and bushrock</i> of the <i>Roads and Maritime Biodiversity Guidelines</i> . Refer to the FFMP for further details. Alternatively, mulch and stockpile for use onsite during landscape planting and in conjunction with soil erosion and sediment control measures.	100%	Nil.
	Topsoil	Subject to chemical assessment (if material is to be taken offsite)	142,000 m ³	Reuse onsite - stockpile onsite for treatment (as required) and later reuse in landscaping, once topsoil is weed-free. Reuse offsite – Apply topsoil to land as engineering fill or for use in earthworks at an unlicensed premises where there is full compliance with <i>'The excavated natural material exemption 2014'</i> .	100%	In order for an exemption to apply, all the conditions of the exemption must be met. These conditions include, but are not limited to, sampling and testing requirements, chemical thresholds, use restrictions and record keeping requirements. The <i>'Notice under Section 143'</i> form must be completed where material is taken offsite to unlicensed premises in accordance with Section 143(3A) of the POEO Act. If reuse is not feasible disposal offsite will occur at an appropriately licensed waste facility in accordance with the premises' EPL.

Activity	Waste Type	Waste Classification	Approx. Volume/ Quantity	Proposed reuse/ recycling/ disposal methods	Reuse / Recycle Target	Comments
	Weeds	General solid waste (non-putrescible)	Unknown at this stage	Isolate weeds and either: encapsulate by deep burying onsite (refer R178); leave weeds to decompose; or dispose of weeds offsite at an appropriately licensed waste facility in accordance with the premises' EPL as directed by the Environment Manager/ EO.	0%	Nil.
Bulk earthworks	Excess uncontaminated spoil (Unsuitable material from floodplain areas for example)	Subject to chemical assessment (if material is to be taken offsite)	0 m ³	Reuse onsite – Reuse material unsuitable for construction in alternative foundation treatments or place it on the outside of embankments, or in levee raising works (not compromising the structural stability of the batters). Reuse offsite – Apply material to land as engineering fill or for use in earthworks at an unlicensed premises where there is full compliance with 'The excavated natural material exemption 2014'.	100%	In order for an exemption to apply, all the conditions of the exemption must be met. These conditions include, but are not limited to, sampling and testing requirements, chemical thresholds, use restrictions and record keeping requirements. The 'Notice under Section 143' form must be completed where material is taken offsite to unlicensed premises in accordance with Section 143(3A) of the POEO Act. If reuse is not feasible disposal offsite will occur at an appropriately licensed waste facility in accordance with the premises' EPL.
	Contaminated soils	Subject to chemical assessment	100 m ³	Reuse onsite – Reuse onsite following remediation as required. Disposal offsite - at an appropriately licensed waste facility in accordance with the premises' EPL and the DECCW Waste Classification Guidelines (EPA, 2014).	100%	Nil.
	Acid sulfate soils	Subject to chemical assessment	45,000 m ³	Reuse onsite – Manage and reuse on site where possible in accordance with the Waste Classification Guidelines: Part 4: Acid sulfate soils (EPA, 2014). Disposal offsite - at an appropriately licensed waste facility in accordance with the premises' EPL and the Waste Classification Guidelines (EPA, 2014).	100%	Nil.

Activity	Waste Type	Waste Classification	Approx. Volume/ Quantity	Proposed reuse/ recycling/ disposal methods	Reuse / Recycle Target	Comments
	Virgin excavated natural material (VENM)	General solid waste (non-putrescible) (pre-classified as by the EPA)	692,000 m ³ Cut	Reuse onsite – Balance cut and fill earthworks, where possible, to optimise reuse on the Project. Reuse offsite – Apply material to land at an unlicensed premises.	100%	The 'Notice under Section 143' form must be completed where material is taken offsite to unlicensed premises in accordance with Section 143(3A) of the POEO Act.
Road and bridge construction	Steel reinforcing	General solid waste (non-putrescible)	0 tonnes	Resource recovery offsite - Reuse, recycling, reprocessing or energy recovery at an appropriately licensed waste facility in accordance with the premises' EPL and the <i>Waste Classification Guidelines</i> (EPA, 2014).	100%	Nil.
	Conduits and pipes	General solid waste (non-putrescible)	7.5 tonnes	Reuse onsite - If suitable, crush and use as backfill/ road base. Resource recovery offsite - Reuse, recycling, reprocessing or energy recovery at an appropriately licensed waste facility in accordance with the premises' EPL and the <i>Waste Classification Guidelines</i> (EPA, 2014). Disposal offsite - at an appropriately licensed waste facility in accordance with the premises' Environment Protection Licence and the <i>Waste Classification Guidelines</i> (EPA, 2014).	80%	Nil.
	Timber formwork	General solid waste (non-putrescible) (pre-classified as 'building and demolition waste' by the EPA)	150 m ³	Reuse onsite - If suitable. Resource recovery offsite - Reuse, recycling, reprocessing or energy recovery at an appropriately licensed waste facility in accordance with the premises' EPL and the <i>Waste Classification Guidelines</i> (EPA, 2014).	80%	Nil.

Activity	Waste Type	Waste Classification	Approx. Volume/ Quantity	Proposed reuse/ recycling/ disposal methods	Reuse / Recycle Target	Comments
Road and bridge construction (continued)	Packaging materials, including wood, plastic, cardboard and metals	General solid waste (non-putrescible)	275 tonnes	Resource recovery offsite - Reuse, recycling, reprocessing or energy recovery at an appropriately licensed waste facility in accordance with the premises' EPL and the <i>Waste Classification Guidelines</i> (EPA, 2014).	100%	Nil.
	Concrete	Subject to chemical assessment (if material is to be taken offsite)	270m ³	Reuse onsite – Crush and reuse onsite as backfill or road base where compliant with Roads and Maritime specifications. Resource recovery offsite - Reuse, recycling, reprocessing or energy recovery at an appropriately licensed waste facility in accordance with the premises' EPL and the <i>Waste Classification Guidelines</i> (EPA, 2014). Reuse offsite – Apply concrete to land for road making activities, building, landscaping and construction works at an unlicensed premises where there is full compliance with ' <i>The recovered aggregate exemption 2014</i> '.	100%	In order for an exemption to apply, all the conditions of the exemption must be met. These conditions include, but are not limited to, sampling and testing requirements, chemical thresholds, use restrictions and record keeping requirements. The ' <i>Notice under Section 143</i> ' form must be completed where material is taken offsite to unlicensed premises in accordance with Section 143(3A) of the POEO Act. If reuse is not feasible disposal offsite will occur at an appropriately licensed waste facility in accordance with the premises' EPL.
Erosion and sediment control maintenance	Geotextile	General solid waste (non-putrescible)	1 tonne Avoid use of geotextile where practicable	Disposal offsite - at an appropriately licensed waste facility in accordance with the premises' EPL and the <i>Waste Classification Guidelines</i> (EPA, 2014)	0%	Nil.
	Sediment removed from sediment basins once they reach capacity.	General solid waste (non-putrescible)	3,500m ³	Reuse onsite - Mix with existing spoil and reuse onsite.	100%	Nil.
	Sediment fence and sandbags	General solid waste (non-putrescible)	150 tonnes	Reuse onsite where possible based on condition, or dispose offsite at an appropriately licensed waste facility in accordance with the premises' EPL and the <i>Waste Classification Guidelines</i> (EPA, 2014).	10%	Nil.

Activity	Waste Type	Waste Classification	Approx. Volume/ Quantity	Proposed reuse/ recycling/ disposal methods	Reuse / Recycle Target	Comments
Site compounds/ equipment maintenance	Tyres	Special waste (pre-classified by the EPA)	20 tonnes	Resource recovery offsite - Reuse, recycling, reprocessing or energy recovery at an appropriately licensed waste facility in accordance with the premises' EPL and the <i>Waste Classification Guidelines</i> (EPA, 2014).	100%	Nil.
	Drained oil filters, rags and oil-absorbent materials (i.e. spill kit materials) that only contain non-volatile petroleum hydrocarbons and do not contain free liquids.	General solid waste (non-putrescible) (pre-classified by the EPA)	5 tonnes	Disposal offsite - at an appropriately licensed waste facility in accordance with the premises' EPL and the <i>Waste Classification Guidelines</i> (EPA, 2014).	0%	Nil.
	Containers, previously containing dangerous goods, from which residues have been removed by washing or vacuuming	General solid waste (non-putrescible) (pre-classified by the EPA)	1.6 tonnes	Resource recovery offsite - Reuse, recycling, reprocessing or energy recovery at an appropriately licensed waste facility in accordance with the premises' EPL and the <i>Waste Classification Guidelines</i> (EPA, 2014).	100%	Nil.
	Waste oil	Liquid waste (pre-classified by the EPA)	3,200 L	Resource recovery offsite - Reuse, recycling, reprocessing or energy recovery at an appropriately licensed waste facility in accordance with the premises' EPL and the <i>Waste Classification Guidelines</i> (EPA, 2014).	100%	Nil.
Site compound and office operation	Food waste	General solid waste (putrescible) (pre-classified by the EPA)	20 tonnes	Disposal offsite - at an appropriately licensed waste facility in accordance with the premises' EPL and the <i>Waste Classification Guidelines</i> (EPA, 2014).	0%	Nil.

Activity	Waste Type	Waste Classification	Approx. Volume/ Quantity	Proposed reuse/ recycling/ disposal methods	Reuse / Recycle Target	Comments
	Sewage from amenities	General solid waste (putrescible) (pre-classified by the EPA)	520,000L	Disposal offsite - at an appropriately licensed waste facility in accordance with the premises' EPL and the <i>Waste Classification Guidelines</i> (EPA, 2014).	0%	Nil.
	Paper, cardboard and plastic, glass, aluminium cans	General solid waste (non-putrescible)	220 tonnes	Resource recovery offsite - Reuse, recycling, reprocessing or energy recovery at an appropriately licensed waste facility in accordance with the premises' EPL and the <i>Waste Classification Guidelines</i> (EPA, 2014).	100%	Nil.
	Unwanted liquid chemicals	Liquid waste	200 L	Disposal offsite - at an appropriately licensed waste facility in accordance with the premises' EPL and the <i>Waste Classification Guidelines</i> (EPA, 2014).	0%	Nil.

6 Environmental mitigation measures

Specific mitigation measures to address impacts on waste and energy use issues are outlined in Table 6-1.

Table 6-1 Waste and energy management mitigation measures

ID	Mitigation Measure	Timing		Responsibility
		PC ¹	C ²	
GENERAL				
WEMM1	Adopt and promote the waste hierarchy (reduce or avoid waste, reuse waste, recycle waste, recover energy, treat waste, dispose of waste).	✓	✓	Environmental Manager Procurement Manager
WEMM2	Keep site free of litter and maintain good housekeeping.		✓	Foreman
WEMM3	Do not allow waste generated outside the project to be received at the project for storage, treatment, processing, reprocessing, or disposal on the project, except as expressly permitted by a licence or waste exemption under the <i>Protection of the Environment Operations Act 1997</i> , if such a licence is required in relation to that waste (CoA E85).		✓	Foreman
REDUCE OR AVOID				
WEMM4	Calculate precise estimates of resource requirements prior to placing orders.	✓	✓	Project Engineers
WEMM5	Implement, where possible, agreements with suppliers to return excess construction materials or packaging for future reuse.	✓	✓	Contracts Manager
RESOURCE RECOVERY (REUSE, RECYCLE)				
WEMM6	Establish a list of preferred suppliers for waste management services (e.g. waste oil recyclers, metal recyclers, etc.).	✓	✓	Contracts Manager Environmental Manager
WEMM7	Include in waste contractor subcontract agreements requirements to comply with statutory requirements, report quantities, types, dates and destination of material removed from site.	✓	✓	Contracts Manager
WEMM8	Classify all wastes generated on the site during construction in accordance with the <i>Waste Classification Guidelines</i> (EPA, 2014) prior to transporting waste off site to a waste management facility or premise lawfully permitted to accept the materials or in accordance with a Resource Recovery Exemption or Order issued under the <i>Protection of the Environment Operations (Waste) Regulation 2014</i> , or to any other place that can lawfully accept such waste.		✓	Site/ Project Engineers
WEMM9	Obtain and provide receipts/dockets for waste removed from site to the Environmental Officer.		✓	Foreman
WEMM10	Record all waste removed from site in the Waste Register.		✓	Environmental Officer
WEMM11	Provide appropriate facilities to ensure that materials for recycling are separated from materials that are to be disposed of as wastes. Facilities are to be labelled for the various waste streams to ensure easy recognition.		✓	Project Manager
WEMM12	Collect and store waste oil in suitable containers and store in a bunded area until collected for recycling. All permanent bunded storage areas must be covered.		✓	Superintendent
WEMM13	Reuse excavated spoil generated onsite where possible, considering the following options: <ul style="list-style-type: none"> Construction of acoustic and visual earth mounds where there is a benefit to residents and other sensitive receivers Flattening of road batters 		✓	Foreman

ID	Mitigation Measure	Timing		Responsibility
		PC ¹	C ²	
	<ul style="list-style-type: none"> Rehabilitation of borrow pits Engineered fill Improvements to flood prone land. 			
WEMM14	Reuse waste material generated onsite where possible, including topsoil and mulch.		✓	Foreman
WEMM15	When transporting waste to premises other than EPA-licensed waste management facilities, ensure these premises can lawfully accept this waste; obtain a copy of the completed and signed 'Approved Notice under Section 143' form from the landholder to confirm this prior to transporting material to the premises.		✓	Foreman Environmental Officer
WEMM16	Provide paper recycling bins/boxes in all site offices. All paper waste to be sent to recycling facility. Encourage all staff to separate paper waste.		✓	Receptionist Environmental Officer
WEMM17	Use recycled products in construction to reduce demand on resources, where the use of the material is cost and performance competitive and the Roads and Maritime specifications allow it. This may include the use of fly ash and slag within concrete mixes; re-use of existing pavement or other excavated public road materials; recycled steel; guideposts and/ or signage.		✓	Project / Site Engineer
WEMM18	Set printers at the site office to default to double sided and black and white printing. Encourage all staff to minimise paper use through use of electronic media, re-use of paper etc. Refill or return printer cartridges for recycling.		✓	Receptionist
DISPOSAL				
WEMM19	Store construction wastes which cannot be recycled in separate skips. The skips will be collected by a licensed waste contractor on a regular basis and transported to a licensed landfill.		✓	Superintendent
WEMM20	Ensure portable toilets are emptied regularly to prevent overflows and effluent is disposed of in accordance with the <i>Waste Classification Guidelines</i> (EPA, 2014). Connect toilets at the site compound to the sewerage network where feasible.		✓	Superintendent
ENERGY CONSUMPTION (FUEL, OIL AND POWER)				
WEMM21	Select energy efficient plant, equipment and vehicles where feasible and reasonable to reduce greenhouse gas emissions, through consultation with subcontractors and suppliers.	✓	✓	Procurement Manager
WEMM22	Maintain all vehicles, including trucks entering and leaving the site, and construction equipment in accordance with the manufacturer's specification to comply with all relevant legislation.		✓	Procurement Manager Foreman
WEMM23	Procure locally produced goods and services where feasible and cost effective to reduce transport fuel emissions.	✓	✓	Procurement Manager
WEMM24	Consider the procurement of renewable energy technologies (e.g. solar photovoltaic, wind power) for power generation onsite	✓	✓	Procurement Manager Project Manager
WEMM25	Turn machinery, vehicles and lights off when not in use.		✓	Subcontractors Foreman

¹ PC means pre-construction

² C means construction

7 Compliance management

7.1 Roles and responsibilities

The Fulton Hogan Project Team's organisational structure and overall roles and responsibilities are outlined in Section 3.2 of the CEMP. Specific responsibilities for the implementation of environmental mitigation measures are detailed in Chapter 6 of this Plan

7.2 Training

All employees, sub-contractors and utility staff working on site will undergo site induction training relating to waste and energy management issues, including:

- Existence and requirements of this sub-plan
- Relevant legislation
- Incident response, management and reporting
- Waste reporting requirements
- Requirements of the waste hierarchy
- Waste/ recycle storage requirements
- Energy efficient best practices
- Other specific responsibilities for waste and reuse management.

Further details regarding staff induction and training are outlined in Section 3.4 of the CEMP.

7.3 Monitoring and inspections

Regular monitoring and inspections will be undertaken during construction in accordance with Table 7-1.

Additional requirements and responsibilities in relation to inspections are documented in Section 3.7.1 of the CEMP.

Table 7-1 Monitoring and inspections

Monitoring details	Record	Responsibility	Frequency
Track waste taken offsite to a licensed premises	Waste Register	Environmental Manager or delegate	When waste taken offsite. Waste Register to be updated regularly.
	Waste receipts/dockets	Foreman	When waste taken off site to a waste facility.
	Transportation dockets	Foreman	When EPA 'trackable' waste taken off site.
Track waste taken offsite to an unlicensed premises (e.g. VENM, ENM)	'Approved Notice under Section 143' form completed.	Environmental Manager/ Project Engineer	Prior to transporting waste offsite to an unlicensed premises.
	Waste Register	Environmental Manager	When waste taken offsite. Waste Register to be updated regularly.
Inspections for litter; materials management; unauthorised disposal of construction waste (illegal dumping); contamination of waste streams; adequacy of capacity of waste receptacles; indications of inefficient plant operation (as part of weekly environmental inspection).	Environmental Inspection Checklist	Environmental Manager Foreman	Weekly

7.4 Auditing

Audits (both internal and external) will be undertaken to assess the effectiveness of environmental mitigation and management measures, compliance with this sub-plan, CoA and other relevant approvals, licenses and guidelines.

Audit requirements are detailed in Section 3.7.3 of the CEMP.

7.5 Reporting

A Waste Avoidance and Resource Recovery Report will be submitted to Roads and Maritime once a year containing information relating to wastes generated or recycled in accordance with Annexure G36/F, at the following dates:

- Within one month from 1 July of the current calendar year, for the previous 12 months of the contract period, or part thereof if the contract commenced after 1 July of the previous calendar year
- At Date of Construction Completion Date, for the final reporting period.

Additional reporting requirements and responsibilities are documented in Section 3.7.5 of the CEMP.

8 Review and improvement

8.1 Continuous improvement

Continuous improvement of this Plan will be achieved by the ongoing evaluation of environmental management performance against environmental policies, objectives and targets for the purpose of identifying opportunities for improvement.

The continuous improvement process will be designed to:

- Identify areas of opportunity for improvement of environmental management and performance
- Determine the cause or causes of non-conformances and deficiencies
- Develop and implement a plan of corrective and preventative action to address any non-conformances and deficiencies
- Verify the effectiveness of the corrective and preventative actions
- Document any changes in procedures resulting from process improvement
- Make comparisons with objectives and targets.

8.2 WEMP update and amendment

The processes described in Section 3.7 of the CEMP may result in the need to update or revise this Plan. This will occur as needed.

Any revisions to this Plan will be in accordance with the process outlined in Section 1.6 of the CEMP and as required, be provided to Transport for NSW, the ER and other relevant stakeholders for review and comment and forwarded to the Secretary of DPIE for approval.

A copy of the updated plan and changes will be distributed to all relevant stakeholders in accordance with the approved document control procedure – refer to Section 1.5 of the CEMP.

Appendix A Waste facilities

Waste facilities

EPL holder name	Premises	Scheduled activity	EPL No.	Waste Type	Contact
South Coast Concrete Crushing and Recycling Pty Ltd	Princes Highway Nowra NSW 2541	Crushing, Grinding or Separating Extractive Activities Resource Recovery	11765	Waste Crusher dust and road base material Virgin excavated natural material Building and demolition waste General or Specific exempted waste	(02) 4421 7766
South Coast Liquid Treatment Pty Ltd	13 Tom Thumb Avenue Nowra NSW 2541 (Lot 68 DP 1046768)	Waste storage Waste processing (non-thermal treatment)	11155	Waste mineral oils unfit for their original intended use Waste oil/water, hydrocarbons/water mixtures or emulsions Grease trap waste Liquid Food Waste Sewage sludge and residues including nightsoil and septic tank sludge Drilling mud General or Specific exempted waste	(02) 4421 0000
The Council of the Municipality of Kiama	Minnamurra Waste disposal & recycling facility 446 Riverside Drive, Minnamurra NSW 2533 (Lot 1 DP 439772, Lot 1 DP 659767, Lot 1 DP 1108856)	Composting Waste Storage	5958	Household waste from municipal clean-up that does not contain food waste, chemicals or liquid General or Specific exempted waste Waste Wood waste Building and demolition Waste Non-chemical waste generated from manufacturing and services (including metal, timber, paper, ceramics, plastics, thermosets, and composites) Office and Packaging Waste Waste collected by or on behalf of local councils from street sweeping Virgin excavated natural Material Manure Food waste	(02) 4237 5148

EPL holder name	Premises	Scheduled activity	EPL No.	Waste Type	Contact
				Garden waste	
Shoalhaven City Council	West Nowra Recycling & Waste Facility Flat Rock Road, Mundamia NSW 2540	Composting Waste disposal (application to land) Waste Processing (non-thermal treatment) Waste storage	5877	General solid waste (non-putrescible) General solid waste (putrescible) Asbestos waste Waste tyres Waste	(02) 4421 5281
South Coast Equipment	SCE processing and SCE recycling Lot 1 Shellharbour Road Port Kembla NSW 2505	Resource recovery	1265	Ash Coal washery reject Cement fibre board Excavated natural material Electric arc ladle slag Sand Rail ballast Virgin excavated natural material Building and demolition waste Asphalt waste (including asphalt resulting from road construction and waterproofing works) Glass Electric arc furnace slag Granulated blast furnace slag Basic oxygen steel slag Wood waste Cured concrete waste from a batch plant; and Soils	(02) 4274 9077
Council of the City of Shellharbour	Dunmore Recycling and waste disposal depot Buckleys Road Dunmore NSW 2529	Composting Extractive activities Waste disposal (application to land)	5984	General solid waste (non-putrescible) General solid waste (putrescible) Potential acid sulfate soils	(02) 4237 7546

EPL holder name	Premises	Scheduled activity	EPL No.	Waste Type	Contact
		Waste processing (non-thermal treatment) Waste storage		Asbestos waste Waste tyres Building and demolition waste Waste	
Wollongong City Council	Whytes Gully waste disposal facility Reddalls Road Kembla Grange NSW 2526	Waste disposal (application to land)	5862	General solid waste (non-putrescible) General solid waste (putrescible) Asbestos waste Tyres	(02) 4227 7111
Suez Recycling and Recovery Pty Ltd	Elizabeth Drive Landfill Facility 1725 Elizabeth Drive Kemps Creek NSW 2178	Electricity Generation Waste disposal (application to land) Waste storage	4068	General solid waste (non-putrescible) General solid waste (putrescible) Asbestos waste Waste tyres Restricted solid waste	13 13 35
Onesteel Recycling Pty Ltd	Onesteel Recycling Lot 5, 243 Berkeley Rd Unanderra NSW 2526	Metallurgical activities	4414	Scrap metal Lead acid batteries	(02) 4271 8300
Cleanaway Operations Pty Ltd	Transpacific Industries 10-12 Waynote Place Unanderra NSW 2526	Contaminated soil treatment Resource recovery Waste processing (non-thermal treatment) Waste storage	10251	Asbestos Organic solvents excluding halogenated solvents Waste from surface treatment of metals & plastics Acidic solutions or acids in solid form Basic solutions or bases in solid form Waste ink, dye, pigment, paint, lacquer & varnish Wool scouring wastes Residues from industrial waste treatment/disposal operations Soils contaminated with a substance or waste referred to in Parts 1 or 2 of Schedule 1 of the Protection of the Environment Operations (Waste) Regulation 2014 Fire debris and fire washwaters	(02) 4275 2222

EPL holder name	Premises	Scheduled activity	EPL No.	Waste Type	Contact
				General or Specific exempted waste Waste Waste resin, latex, plasticiser, glue & adhesive Waste mineral oils unfit for their original intended use Waste oil/hydrocarbons mixtures/emulsions in water Animal waste Grease trap waste Tannery waste incl leather dust/ash/sludge/flour	
Hi-Quality Waste Management Pty Ltd	Minda Landfill Oallen Ford Road Windellama NSW 2580	Waste disposal (application to land)	10398	General solid waste (non-putrescible) Asbestos waste Waste tyres Waste	(02) 9826 1666
Hi-Quality Quarry (NSW) Pty Ltd	Hi Quality Kemps Creek Central 1503-1519 Elizabeth Drive Kemps Creek NSW 2178	Crushing, grinding or separating Extractive activities Resource recovery Waste storage	20593	Virgin excavated natural material Building and demolition waste	(02) 9826 1666
Cleanaway ResourceCo RRF Pty Ltd	ResourceCo 35-37 Frank Street Wetherill Park NSW 2164	Resource recovery Waste storage	20937	General solid waste (non-putrescible) Synthetic fibre waste (from materials such as fibreglass, polyesters and other plastics), but excluding asbestos waste Wood waste Glass, plastic, rubber, plasterboard, ceramics, bricks, concrete or metal Paper or cardboard Building and demolition waste	(08) 8406 0300
Brandown Pty. Limited	Brandown Pty Limited Lot 90 Elizabeth Drive	Extractive activities Waste disposal (application to land)	5186	General Solid Waste (non-putrescible) excluding biosolids Asbestos waste Waste tyres Waste	(02) 9826 1256

EPL holder name	Premises	Scheduled activity	EPL No.	Waste Type	Contact
	Kemps Creek Nsw 2178				

Appendix B Waste register (example)

Waste register (example)



Notes

1. In accordance with the EPA 'Waste Classification Guidelines' (2014) which can be accessed at: <http://www.epa.nsw.gov.au/resources/wasteregulation/140796-classify-waste.pdf>
2. Where a facility has a weighbridge installed, records of all waste entering the facility should be based on the quantities (in tonnes) recorded by the weighbridge.
3. Reuse occurs when a material is used again for the same or similar use with no reprocessing. Reusing a product more than once in its original form reduces the waste generated and the energy consumed, which would have been required to be recycled.
 Recycling involves processing waste into a similar non waste product consuming less energy than production from raw materials. Recycling spares the environment from further degradation, saves landfill space and saves resources that were used to originally make the material. E.g. mulching cleared vegetation for reuse in landscaping.

DATE	WASTE DESCRIPTION (choose one of the 23 materials from the drop down list on each row)	WASTE CLASSIFICATION ¹ (choose one of the 6 materials from the drop down list on each row)	TOTAL QUANTITY ²	UNITS (e.g. tonnes)	INTENDED END USE ³ (choose one of the 3 options from the drop down list on each row)	RECEIVAL FACILITY	TRANSPORTED BY	DOCKET OR INVOICE NUMBER	WASTE TRANSPORT VEHICLE NUMBER	REFERENCE IN ENVIRONMENTAL SAMPLING REGISTER (e.g. if monitoring carried out to demonstrate compliance with Resource Recovery Exemption OR to classify waste)	COMMENTS

Appendix C Waste facility EPL details

Environment Protection Licence

Licence - 4068

Licence Details	
Number:	4068
Anniversary Date:	31-December

Licensee
SUEZ RECYCLING & RECOVERY PTY LTD
LOCKED BAG 5015
KINGSGROVE DC NSW 2208

Premises
ELIZABETH DRIVE LANDFILL FACILITY
1725 ELIZABETH DRIVE
KEMPS CREEK NSW 2178

Scheduled Activity
Electricity generation
Waste disposal (application to land)
Waste storage

Fee Based Activity	Scale
Generation of electrical power from gas	0-250 GWh annual generating capacity
Waste disposal by application to land	Any capacity
Waste storage - other types of waste	Any other types of waste stored

Region
Waste & Resource Recovery
59-61 Goulburn Street
SYDNEY NSW 2000
Phone: (02) 9995 5000
Fax: (02) 9995 5999
PO Box A290
SYDNEY SOUTH NSW 1232

Environment Protection Licence



Licence - 4068

INFORMATION ABOUT THIS LICENCE	4
Dictionary	4
Responsibilities of licensee	4
Variation of licence conditions	4
Duration of licence	4
Licence review	4
Fees and annual return to be sent to the EPA	4
Transfer of licence	5
Public register and access to monitoring data	5
1 ADMINISTRATIVE CONDITIONS	6
A1 What the licence authorises and regulates	6
A2 Premises or plant to which this licence applies	6
A3 Information supplied to the EPA	6
2 DISCHARGES TO AIR AND WATER AND APPLICATIONS TO LAND	7
P1 Location of monitoring/discharge points and areas	7
3 LIMIT CONDITIONS	15
L1 Pollution of waters	15
L2 Concentration limits	15
L3 Waste	16
L4 Noise limits	18
L5 Blasting	18
L6 Hours of operation	19
L7 Potentially offensive odour	19
4 OPERATING CONDITIONS	20
O1 Activities must be carried out in a competent manner	20
O2 Maintenance of plant and equipment	20
O3 Dust	20
O4 Emergency response	20
O5 Processes and management	20
O6 Waste management	21
O7 Other operating conditions	25
5 MONITORING AND RECORDING CONDITIONS	25
M1 Monitoring records	25
M2 Requirement to monitor concentration of pollutants discharged	26



Environment Protection Licence

Licence - 4068

M3	Testing methods - concentration limits	31
M4	Weather monitoring	32
M5	Recording of pollution complaints	32
M6	Telephone complaints line	32
M7	Other monitoring and recording conditions	33
6	REPORTING CONDITIONS	34
R1	Annual return documents	34
R2	Notification of environmental harm	35
R3	Written report	35
7	GENERAL CONDITIONS	36
G1	Copy of licence kept at the premises or plant	36
8	SPECIAL CONDITIONS	36
E1	Financial assurance	36
E2	Environmental obligations of a licensee	36
E3	Construction and Interface Capping for Restricted Solid Waste Cells A6, A7 and A8	37
E4	Construction of restricted solid waste cell A8 and A9	37
	DICTIONARY	38
	General Dictionary	38

Environment Protection Licence

Licence - 4068



Information about this licence

Dictionary

A definition of terms used in the licence can be found in the dictionary at the end of this licence.

Responsibilities of licensee

Separate to the requirements of this licence, general obligations of licensees are set out in the Protection of the Environment Operations Act 1997 ("the Act") and the Regulations made under the Act. These include obligations to:

- ensure persons associated with you comply with this licence, as set out in section 64 of the Act;
- control the pollution of waters and the pollution of air (see for example sections 120 - 132 of the Act);
- report incidents causing or threatening material environmental harm to the environment, as set out in Part 5.7 of the Act.

Variation of licence conditions

The licence holder can apply to vary the conditions of this licence. An application form for this purpose is available from the EPA.

The EPA may also vary the conditions of the licence at any time by written notice without an application being made.

Where a licence has been granted in relation to development which was assessed under the Environmental Planning and Assessment Act 1979 in accordance with the procedures applying to integrated development, the EPA may not impose conditions which are inconsistent with the development consent conditions until the licence is first reviewed under Part 3.6 of the Act.

Duration of licence

This licence will remain in force until the licence is surrendered by the licence holder or until it is suspended or revoked by the EPA or the Minister. A licence may only be surrendered with the written approval of the EPA.

Licence review

The Act requires that the EPA review your licence at least every 5 years after the issue of the licence, as set out in Part 3.6 and Schedule 5 of the Act. You will receive advance notice of the licence review.

Fees and annual return to be sent to the EPA

For each licence fee period you must pay:

- an administrative fee; and
- a load-based fee (if applicable).

Environment Protection Licence



Licence - 4068

The EPA publication “A Guide to Licensing” contains information about how to calculate your licence fees. The licence requires that an Annual Return, comprising a Statement of Compliance and a summary of any monitoring required by the licence (including the recording of complaints), be submitted to the EPA. The Annual Return must be submitted within 60 days after the end of each reporting period. See condition R1 regarding the Annual Return reporting requirements.

Usually the licence fee period is the same as the reporting period.

Transfer of licence

The licence holder can apply to transfer the licence to another person. An application form for this purpose is available from the EPA.

Public register and access to monitoring data

Part 9.5 of the Act requires the EPA to keep a public register of details and decisions of the EPA in relation to, for example:

- licence applications;
- licence conditions and variations;
- statements of compliance;
- load based licensing information; and
- load reduction agreements.

Under s320 of the Act application can be made to the EPA for access to monitoring data which has been submitted to the EPA by licensees.

This licence is issued to:

SUEZ RECYCLING & RECOVERY PTY LTD
LOCKED BAG 5015
KINGSGROVE DC NSW 2208

subject to the conditions which follow.

Environment Protection Licence

Licence - 4068

1 Administrative Conditions

A1 What the licence authorises and regulates

A1.1 This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, fee-based activity classification and the scale of the operation.

Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition.

Scheduled Activity	Fee Based Activity	Scale
Electricity generation	Generation of electrical power from gas	0 - 250 GWh annual generating capacity
Waste disposal (application to land)	Waste disposal by application to land	Any capacity
Waste storage	Waste storage - other types of waste	Any other types of waste stored

A2 Premises or plant to which this licence applies

A2.1 The licence applies to the following premises:

Premises Details
ELIZABETH DRIVE LANDFILL FACILITY
1725 ELIZABETH DRIVE
KEMPS CREEK
NSW 2178
LOT 1 DP 542395, LOT 740 DP 810111
(EXCEPT THAT PART HATCHED IN RED ON "PLAN SHOWING THE BOUNDARIES OF THE SAWT AREA OVER PART OF LOT 740 DP 810111" PREPARED BY MATTHEW FREEBURN SURVEYORS DATED 03.05.10)

A3 Information supplied to the EPA

A3.1 Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence.

In this condition the reference to "the licence application" includes a reference to:

- the applications for any licences (including former pollution control approvals) which this licence replaces under the Protection of the Environment Operations (Savings and Transitional) Regulation 1998; and
- the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence.

Environment Protection Licence

Licence - 4068

A3.2 The 'Elizabeth Drive Landfill Environmental Management Plan Revision/Edition 1', PPK Environment & Infrastructure Pty Ltd, dated 01/01/98.

Note: For the purposes of this licence the abbreviation "LEMP" is defined as the document titled Elizabeth Drive Landfill Environmental Management Plan Revision/Edition 1, dated 01/01/98.

A3.3 The gas to energy & gas collection system at the Premises must be constructed and operated in accordance with Penrith City Council's development consent no. DA12/0515.

2 Discharges to Air and Water and Applications to Land

P1 Location of monitoring/discharge points and areas

P1.1 The following points referred to in the table below are identified in this licence for the purposes of monitoring and/or the setting of limits for the emission of pollutants to the air from the point.

<i>Air</i>			
EPA identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
4	Air quality monitoring		Dust Monitoring point labelled "D5" on map named "SUEZ Australia – Elizabeth Drive Landfill – EPL 4068 - Monitoring Locations - Rev B" prepared by SUEZ Australia Pty Ltd dated 19 January 2018 – DOC18/276519. Located on western boundary of Premises.
5	Air quality monitoring		Dust Monitoring point labelled "D6" on map named "SUEZ Australia – Elizabeth Drive Landfill – EPL 4068 - Monitoring Locations - Rev B" prepared by SUEZ Australia Pty Ltd dated 19 January 2018 – DOC18/276519. Located on northern boundary of Premises.
6	Air quality monitoring		Dust Monitoring point labelled "D8" on map named "SUEZ Australia – Elizabeth Drive Landfill – EPL 4068 - Monitoring Locations - Rev B" prepared by SUEZ Australia Pty Ltd dated 19 January 2018 – DOC18/276519. Located on eastern boundary of Premises.
7	Air quality monitoring		Dust Monitoring point labelled "D10" on map named "SUEZ Australia – Elizabeth Drive Landfill – EPL 4068 - Monitoring Locations - Rev B" prepared by SUEZ Australia Pty Ltd dated 19 January 2018 – DOC18/276519. Located on south-western boundary of Premises.

Environment Protection Licence



Licence - 4068

8	Air quality monitoring	Dust Monitoring point labelled "D17" on map named "SUEZ Australia – Elizabeth Drive Landfill EPL 4068 Monitoring Locations - Rev B" prepared by SUEZ Australia Pty Ltd dated 19 January 2018 – DOC18/276519. Located on south-eastern boundary of Premises.
9	Air quality monitoring	Dust Monitoring point labelled "D20" on map named "SUEZ Australia – Elizabeth Drive Landfill – EPL 4068 - Monitoring Locations - Rev B" prepared by SUEZ Australia Pty Ltd dated 19 January 2018 – DOC18/276519. Located on north-eastern boundary of Premises.
10	Air quality monitoring	Dust Monitoring point labelled "D21" on map named "SUEZ Australia – Elizabeth Drive Landfill – EPL 4068 - Monitoring Locations - Rev B" prepared by SUEZ Australia Pty Ltd dated 19 January 2018 – DOC18/276519. Located on north-west corner of Premises.
45	Subsurface gas monitoring	Subsurface gas monitoring point labelled "SG1" on map named "SUEZ Australia – Elizabeth Drive Landfill – EPL 4068 - Monitoring Locations - Rev B" prepared by SUEZ Australia Pty Ltd dated 19 January 2018 – DOC18/276519.
46	Subsurface gas monitoring	Subsurface gas monitoring point labelled "SG2" on map named "SUEZ Australia – Elizabeth Drive Landfill – EPL 4068 - Monitoring Locations - Rev B" prepared by SUEZ Australia Pty Ltd dated 19 January 2018 – DOC18/276519.
47	Subsurface gas monitoring	Subsurface gas monitoring point labelled "SG3" on map named "SUEZ Australia – Elizabeth Drive Landfill – EPL 4068 - Monitoring Locations - Rev B" prepared by SUEZ Australia Pty Ltd dated 19 January 2018 – DOC18/276519. Located on SW boundary of Premises.
48	Subsurface gas monitoring	Subsurface gas monitoring point labelled "SG4" on map named "SUEZ Australia – Elizabeth Drive Landfill – EPL 4068 - Monitoring Locations - Rev B" prepared by SUEZ Australia Pty Ltd dated 19 January 2018 – DOC18/276519. Located on SW boundary of Premises.
49	Subsurface gas monitoring	Subsurface gas monitoring point labelled "SG5" on map named "SUEZ Australia – Elizabeth Drive Landfill – EPL 4068 - Monitoring Locations - Rev B" prepared by SUEZ Australia Pty Ltd dated 19 January 2018 – DOC18/276519. Located on eastern boundary.

Environment Protection Licence

Licence - 4068



50	Subsurface gas monitoring	Subsurface gas monitoring point labelled "SG6" on map named "SUEZ Australia – Elizabeth Drive Landfill – EPL 4068 - Monitoring Locations - Rev B" prepared by SUEZ Australia Pty Ltd dated 19 January 2018 – DOC18/276519. Located on eastern boundary.
51	Subsurface gas monitoring	Subsurface gas monitoring point labelled "SG7" on map named "SUEZ Australia – Elizabeth Drive Landfill – EPL 4068 - Monitoring Locations - Rev B" prepared by SUEZ Australia Pty Ltd dated 19 January 2018 – DOC18/276519. Located on eastern boundary.
56	Air Emissions Monitoring	Discharge to Air from Landfill Gas Engine 1 labelled "GEN1" on Map named "SUEZ Australia – Elizabeth Drive Landfill – EPL 4068 - Monitoring Locations - Rev B" prepared by SUEZ Australia Pty Ltd dated 19 January 2018 – DOC18/276519
57	Air Emissions Monitoring	Discharge to Air from Landfill Gas Engine 2 labelled "GEN2" on Map named "SUEZ Australia – Elizabeth Drive Landfill – EPL 4068 - Monitoring Locations - Rev B" prepared by SUEZ Australia Pty Ltd dated 19 January 2018 – DOC18/276519
58	Air Emissions Monitoring	Discharge to Air from Landfill Gas Flare labelled "FLR1" on Map named "SUEZ Australia – Elizabeth Drive Landfill – EPL 4068 - Monitoring Locations - Rev B" prepared by SUEZ Australia Pty Ltd dated 19 January 2018 – DOC18/276519

P1.2 The following utilisation areas referred to in the table below are identified in this licence for the purposes of the monitoring and/or the setting of limits for any application of solids or liquids to the utilisation area.

P1.3 The following points referred to in the table are identified in this licence for the purposes of the monitoring and/or the setting of limits for discharges of pollutants to water from the point.

Water and land

EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
13	Wet weather discharge Water quality monitoring	Wet weather discharge Water quality monitoring	Wet weather overflow monitoring point labelled "ADP002" on map named "SUEZ Australia – Elizabeth Drive Landfill – EPL 4068 - Monitoring Locations - Rev B" prepared by SUEZ Australia Pty Ltd dated 19 January 2018 – DOC18/276519.

Environment Protection Licence

Licence - 4068



15	Wet weather discharge Water quality monitoring	Wet weather discharge Water quality monitoring	Wet weather overflow monitoring point labelled "ADP003" on map named "SUEZ Australia – Elizabeth Drive Landfill – EPL 4068 - Monitoring Locations - Rev B" prepared by SUEZ Australia Pty Ltd dated 19 January 2018 – DOC18/276519
16	Groundwater quality monitoring		Groundwater monitoring point labelled "G1a" on map named "SUEZ Australia – Elizabeth Drive Landfill – EPL 4068 - Monitoring Locations - Rev B" prepared by SUEZ Australia Pty Ltd dated 19 January 2018 – DOC18/276519.
17	Groundwater quality monitoring		Groundwater monitoring point labelled "G3a" on map named "SUEZ Australia – Elizabeth Drive Landfill – EPL 4068 - Monitoring Locations - Rev B" prepared by SUEZ Australia Pty Ltd dated 19 January 2018 – DOC18/276519.
18	Groundwater quality monitoring		Groundwater monitoring point labelled "G4a" on map named "SUEZ Australia – Elizabeth Drive Landfill – EPL 4068 - Monitoring Locations - Rev B" prepared by SUEZ Australia Pty Ltd dated 19 January 2018 – DOC18/276519.
19	Groundwater quality monitoring		Groundwater monitoring point labelled "G5" on map named "SUEZ Australia – Elizabeth Drive Landfill – EPL 4068 - Monitoring Locations - Rev B" prepared by SUEZ Australia Pty Ltd dated 19 January 2018 – DOC18/276519.
20	Groundwater quality monitoring		Groundwater monitoring point labelled "G6" on map named "SUEZ Australia – Elizabeth Drive Landfill – EPL 4068 - Monitoring Locations - Rev B" prepared by SUEZ Australia Pty Ltd dated 19 January 2018 – DOC18/276519.
21	Groundwater quality monitoring		Groundwater monitoring point labelled "G7" on map named "SUEZ Australia – Elizabeth Drive Landfill – EPL 4068 - Monitoring Locations - Rev B" prepared by SUEZ Australia Pty Ltd dated 19 January 2018 – DOC18/276519.

Environment Protection Licence

Licence - 4068



22	Groundwater quality monitoring	Groundwater monitoring point labelled "G9" on map named "SUEZ Australia – Elizabeth Drive Landfill – EPL 4068 - Monitoring Locations - Rev B" prepared by SUEZ Australia Pty Ltd dated 19 January 2018 – DOC18/276519.
23	Surface water quality monitoring	Surface water monitoring point labelled "S1" on map named "SUEZ Australia – Elizabeth Drive Landfill – EPL 4068 - Monitoring Locations - Rev B" prepared by SUEZ Australia Pty Ltd dated 19 January 2018 – DOC18/276519. Located in Badgerys Creek upstream.
24	Surface water quality monitoring	Surface water monitoring point labelled "S2" on map named "SUEZ Australia – Elizabeth Drive Landfill – EPL 4068 - Monitoring Locations - Rev B" prepared by SUEZ Australia Pty Ltd dated 19 January 2018 – DOC18/276519. Located in Badgerys Creek midstream.
25	Surface water quality monitoring	Surface water monitoring point labelled "S3" on map named "SUEZ Australia – Elizabeth Drive Landfill – EPL 4068 - Monitoring Locations - Rev B" prepared by SUEZ Australia Pty Ltd dated 19 January 2018 – DOC18/276519. Located in Badgerys Creek downstream.
26	Leachate quality monitoring General solid waste cell	Leachate monitoring point labelled "L7" on map named "SUEZ Australia – Elizabeth Drive Landfill – EPL 4068 - Monitoring Locations - Rev B" prepared by SUEZ Australia Pty Ltd dated 19 January 2018 – DOC18/276519. Located on NW corner of Cell C1.
27	Leachate quality monitoring Restricted Waste Cell - primary layer	Leachate monitoring point labelled "L10" on map named "SUEZ Australia – Elizabeth Drive Landfill – EPL 4068 - Monitoring Locations - Rev B" prepared by SUEZ Australia Pty Ltd dated 19 January 2018 – DOC18/276519. Located on NW corner of RSW cell.

Environment Protection Licence

Licence - 4068



28	Leachate quality monitoring Restricted Waste Cell A2 - primary layer		Leachate monitoring point labelled "A2L1" on map named "SUEZ Australia – Elizabeth Drive Landfill – EPL 4068 - Monitoring Locations - Rev B" prepared by SUEZ Australia Pty Ltd dated 19 January 2018 – DOC18/276519. Located at primary layer of RSW cell A2.
29	Leachate quality monitoring Restricted Waste Cell A2 - secondary layer		Leachate monitoring point labelled "A2L2" on map named "SUEZ Australia – Elizabeth Drive Landfill – EPL 4068 - Monitoring Locations - Rev B" prepared by SUEZ Australia Pty Ltd dated 19 January 2018 – DOC18/276519. Located at secondary layer of RSW cell A.
30	Leachate quality monitoring Restricted Solid Waste Cell A2 - tertiary layer		Variable monitoring point located within the tertiary layer of Restricted waste cell A2
31	Surface water quality monitoring		Surface water monitoring point labelled "S9" on map named "SUEZ Australia – Elizabeth Drive Landfill – EPL 4068 - Monitoring Locations - Rev B" prepared by SUEZ Australia Pty Ltd dated 19 January 2018 – DOC18/276519. Located in Dam 1 waters.
33	Surface water quality monitoring		Surface water monitoring point labelled "S10" on map named "SUEZ Australia – Elizabeth Drive Landfill – EPL 4068 - Monitoring Locations - Rev B" prepared by SUEZ Australia Pty Ltd dated 19 January 2018 – DOC18/276519. Located in Dam 3 waters.
34	Wet weather discharge Water quality monitoring - downstream of Main Water Supply Holding Pond	Wet weather discharge Water quality monitoring - downstream of Main Water Supply Holding Pond	Wet weather monitoring point labelled "S19" on map named "SUEZ Australia – Elizabeth Drive Landfill – EPL 4068 - Monitoring Locations - Rev B" prepared by SUEZ Australia Pty Ltd dated 19 January 2018 – DOC18/276519.
35	Wet weather discharge Water quality monitoring	Wet weather discharge Water quality monitoring	Surface water monitoring point labelled "ADP-001" on map named "SUEZ Australia – Elizabeth Drive Landfill – EPL 4068 - Monitoring Locations - Rev B" prepared by SUEZ Australia Pty Ltd dated 19 January 2018 – DOC18/276519.

Environment Protection Licence



Licence - 4068

36	Leachate Quality Monitoring Restricted Waste Cell A5 - primary layer	Leachate monitoring point labelled "A5L1" on map named "SUEZ Australia – Elizabeth Drive Landfill – EPL 4068 - Monitoring Locations - Rev B" prepared by SUEZ Australia Pty Ltd dated 19 January 2018 – DOC18/276519. Located on W boundary of RSW Cell A5.
37	Leachate Quality Monitoring Restricted Waste Cell A5 - secondary layer	Leachate monitoring point labelled "A5L2" on map named "SUEZ Australia – Elizabeth Drive Landfill – EPL 4068 - Monitoring Locations - Rev B" prepared by SUEZ Australia Pty Ltd dated 19 January 2018 – DOC18/276519. Located on W boundary of RSW Cell A5.
38	Leachate Quality Monitoring Restricted Solid Waste Cell A4 - primary layer	Leachate monitoring point labelled "A4L1" on map named "SUEZ Australia – Elizabeth Drive Landfill – EPL 4068 - Monitoring Locations - Rev B" prepared by SUEZ Australia Pty Ltd dated 19 January 2018 – DOC18/276519. Located on W boundary of RSW Cell A4.
39	Leachate Quality Monitoring Restricted Waste Cell A4 - secondary layer	Leachate monitoring point labelled "A4L2" on map named "SUEZ Australia – Elizabeth Drive Landfill – EPL 4068 - Monitoring Locations - Rev B" prepared by SUEZ Australia Pty Ltd dated 19 January 2018 – DOC18/276519. Located on W boundary of RSW Cell A4.
40	Leachate Quality Monitoring General Solid Waste Cell	Leachate monitoring point labelled "L11" on map named "SUEZ Australia – Elizabeth Drive Landfill – EPL 4068 - Monitoring Locations - Rev B" prepared by SUEZ Australia Pty Ltd dated 19 January 2018 – DOC18/276519. Located on W boundary of GSW cell.
41	Leachate Quality Monitoring Restricted Solid Waste Cell A3 - primary layer	Leachate monitoring point labelled "A3L1" on map named "SUEZ Australia – Elizabeth Drive Landfill – EPL 4068 - Monitoring Locations - Rev B" prepared by SUEZ Australia Pty Ltd dated 19 January 2018 – DOC18/276519. Located on N boundary of RSW Cell A3.

Environment Protection Licence

Licence - 4068



43	Leachate Quality Monitoring General Solid Waste	Leachate monitoring point labelled "L9" on map named "SUEZ Australia – Elizabeth Drive Landfill – EPL 4068 - Monitoring Locations - Rev B" prepared by SUEZ Australia Pty Ltd dated 19 January 2018 – DOC18/276519. Located on N boundary of GSW Cells.
44	Leachate Quality Monitoring General Solid Waste Cell	Leachate monitoring point labelled "L12" on map named "SUEZ Australia – Elizabeth Drive Landfill – EPL 4068 - Monitoring Locations - Rev B" prepared by SUEZ Australia Pty Ltd dated 19 January 2018 – DOC18/276519. Located NW corner of GSW cell.
52	Leachate Quality Monitoring Restricted Waste Cell A5B - primary layer	Leachate monitoring point labelled "A5BL1" on map named "SUEZ Australia – Elizabeth Drive Landfill – EPL 4068 - Monitoring Locations - Rev B" prepared by SUEZ Australia Pty Ltd dated 19 January 2018 – DOC18/276519. Located W corner of Cell A5B.
53	Leachate Quality Monitoring Restricted Waste Cell A5B - secondary layer	Leachate monitoring point labelled "A5BL2" on map named "SUEZ Australia – Elizabeth Drive Landfill – EPL 4068 - Monitoring Locations - Rev B" prepared by SUEZ Australia Pty Ltd dated 19 January 2018 – DOC18/276519. Located W corner of Cell A5B.
54	Groundwater quality monitoring	Groundwater monitoring point "G10" located on map named "SUEZ Australia – Elizabeth Drive Landfill – EPL 4068 - Monitoring Locations - Rev B" prepared by SUEZ Australia Pty Ltd dated 19 January 2018 – DOC18/276519.
55	Leachate Quality Monitoring General Solid Waste	Leachate monitoring point labelled "L13" on Map named "SUEZ Australia – Elizabeth Drive Landfill – EPL 4068 - Monitoring Locations - Rev B" prepared by SUEZ Australia Pty Ltd dated 19 January 2018 – DOC18/276519
59	Surface Water Quality Monitoring	Surface water monitoring point labelled "S5" on map named "SUEZ Australia – Elizabeth Drive Landfill – EPL 4068 - Monitoring Locations - Rev B" prepared by SUEZ Australia Pty Ltd dated 19 January 2018 – DOC18/276519

Environment Protection Licence

Licence - 4068



60	Surface Water Quality Monitoring	Surface water monitoring point labelled "S20" on map named "SUEZ Australia – Elizabeth Drive Landfill – EPL 4068 - Monitoring Locations - Rev B" prepared by SUEZ Australia Pty Ltd dated 19 January 2018 – DOC18/276519
61	Surface Water Quality Monitoring	Surface water monitoring point labelled "S19" on map named "SUEZ Australia – Elizabeth Drive Landfill – EPL 4068 - Monitoring Locations - Rev B" prepared by SUEZ Australia Pty Ltd dated 19 January 2018 – DOC18/276519

3 Limit Conditions

L1 Pollution of waters

L1.1 Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the Protection of the Environment Operations Act 1997.

L2 Concentration limits

L2.1 For each monitoring/discharge point or utilisation area specified in the table\ below (by a point number), the concentration of a pollutant discharged at that point, or applied to that area, must not exceed the concentration limits specified for that pollutant in the table.

L2.2 Where a pH quality limit is specified in the table, the specified percentage of samples must be within the specified ranges.

L2.3 To avoid any doubt, this condition does not authorise the pollution of waters by any pollutant other than those specified in the table\.

L2.4 Water and/or Land Concentration Limits

POINT 13,15,34,35

Pollutant	Units of Measure	50 percentile concentration limit	90 percentile concentration limit	3DGM concentration limit	100 percentile concentration limit
Ammonia	milligrams per litre				0.9

Environment Protection Licence

Licence - 4068

Total suspended solids	milligrams per litre	50
------------------------	----------------------	----

L2.5 Exceedence of a quality limit specified in this licence for the discharge of TSS from EPA identification numbers, Points 13, 15, 34 and 35 is permitted if the discharges occur solely as a result of rainfall at the premises exceeding a total of 48 millimetres over any consecutive five day period.

L2.6 Air Concentration Limits

POINT 56,57

Pollutant	Units of measure	100 percentile concentration limit	Reference conditions	Oxygen correction	Averaging period
Sulfuric acid mist and sulfur trioxide (as SO ₃)	milligrams per cubic metre	100	L2.7		
Nitrogen Oxides	milligrams per cubic metre	450	L2.7		

L2.7 Reference basis for air pollutants specified in condition L2.6 must be as follows:
 For Nitrogen oxides (no₂ and/or NO): dry, 273K, 101.3kPa, 7% O₂
 For sulphuric acid mist (H₂SO₄) and/or sulphur trioxide (SO₃): dry, 273K, 101.3kPa, 7% O₂

L2.8 Combustion Parameters for Flare - Monitoring Point 58

Pollutant	Unit of Measure	Lower Limit	Averaging Period
Residence time	S	0.6	Instantaneous
Temperature	Degrees Celcius	760	Instantaneous

L3 Waste

L3.1 The licensee must not cause, permit or allow any waste to be received at the premises, except the wastes expressly referred to in the column titled "Waste" and meeting the definition, if any, in the column titled "Description" in the table below.

Any waste received at the premises must only be used for the activities referred to in relation to that waste in the column titled "Activity" in the table below.

Any waste received at the premises is subject to those limits or conditions, if any, referred to in relation to that waste contained in the column titled "Other Limits" in the table below.

This condition does not limit any other conditions in this licence.

Code	Waste	Description	Activity	Other Limits
------	-------	-------------	----------	--------------

Environment Protection Licence

Licence - 4068

NA	General solid waste (non-putrescible)	As defined in Schedule 1 of the POEO Act, as in force from time to time	Waste disposal (application to land)	Must only be disposed of in general solid waste (non-putrescible) landfill cells.
NA	General solid waste (non-putrescible)	Wastes assessed as General Solid Waste (non-putrescible) which are also subject to general or specific immobilisation approvals which have a restriction that they may only be disposed of at waste disposal facilities which have currently operating leachate collection systems.	Waste disposal (application to land)	Must only be disposed of in general solid waste (non-putrescible) landfill cells.
NA	Asbestos waste	As defined in Schedule 1 of the POEO Act, as in force from time to time	Waste disposal (application to land)	Must only be disposed of in general solid waste (non-putrescible) landfill cells.
NA	Waste tyres	As defined in Schedule 1 of the POEO Act, as in force from time to time	Waste disposal (application to land)	Must only be disposed of in general solid waste (non-putrescible) landfill cells.
NA	Restricted solid waste	As defined in Schedule 1 of the POEO Act, as in force from time to time	Waste disposal (application to land)	Must only be disposed of in restricted solid waste landfill cells.
NA	Restricted solid waste	Wastes assessed as Restricted Solid Wastes which are also subject to general or specific immobilisation approvals which have a restriction that they may only be disposed of at waste disposal facilities which have currently operating leachate collection systems.	Waste disposal (application to land)	Must only be disposed of in restricted solid waste landfill cells.

Tyres

L3.2 For the purposes of this condition:

Environment Protection Licence

Licence - 4068



- a) tyres are taken to be shredded only if the tyres are in pieces measuring no more than 250 mm in any direction; and
- b) domestic load means a load containing no more than 5 tyres having a diameter of less than 1.2 metres.

L3.3 The licensee must not dispose of any tyre at the premises unless:

- a) the tyre has a diameter of 1.2 metres or more; and/or
- b) the tyre has been shredded or had its walls removed; and/or
- c) the tyre was delivered to the premises as part of a domestic load.

L3.4 Tyres stockpiled on the premises must:

- a) not exceed fifty (50) tonnes of tyres at any one time; and
- b) be located in a clearly defined area away from the tipping face; and
- c) be managed to control vermin; and
- d) be managed to prevent any tyres from catching fire.

Stockpiles

L3.5 The volume of unshredded and shredded garden waste and wood waste stockpiled at the Premises must not exceed 2,000 cubic metres (m³) at any one time.

L3.6 The volume of demolition material, concrete, broken tiles, blast furnace slag, and bricks stored or stockpiled for the purpose of landfill operations must not exceed 2,000 cubic metres (m³) at any one time.

L4 Noise limits

L4.1 Noise from the premises must not exceed:

- a) an LA10(15 minute) noise emission criterion of 50 dB(A) during the day (7am to 10pm);
- b) an LA10(15 minute) noise emission criterion of 45 dB(A) during the night (10pm to 7am);

except as expressly provided by this licence.

L4.2 Noise from the premises is to be measured at the most affected point on or within the residential property boundary to determine compliance with condition L4.1. If the most affected residential property boundary is greater than 30 metres from the premises, then the noise is to be measured at any point 30 metres from the nearest residence or noise sensitive area within the vicinity of the premises to determine compliance with condition L4.1. If the noise is substantially tonal, repetitive, frequency varying, or impulsive in character, 5 dB(A) must be added to the measured level for each characteristic, up to a maximum of 10dB(A)

L5 Blasting

L5.1 The overpressure level from blasting operations on the premises must not exceed:

Environment Protection Licence



Licence - 4068

- a) 115 dB (Lin Peak) for more than 5% of the total number of blasts over the reporting period; and
- b) 120dB (Lin Peak) at any time.

L5.2 Noise from blasting operations at the premises is to be measured at the most affected residential property, or if this is more than 30 metres from the residence, at the most affected point 30 metres from the residence, or other noise sensitive, or other noise sensitive areas in the vicinity of the premises, to determine compliance with condition L5.1.

L5.3 All blasting at the premises must only be conducted between the following hours: 9:00am to 4:00pm Monday to Friday, and at no time on Saturdays, Sundays or Public Holidays.

Ground vibration

L5.4 Ground vibration peak particle velocity from the blasting operations at the premises must not exceed 5mm/sec for more than five percent of the total number of blasts over a reporting period of this licence; and 10mm/s at one time.

L5.5 Vibration from blasting operations at the premises is to be measured at the most affected point residential property boundary; or if this is more than 30 metres from the residence, at the most affected point 30 metres from the residence or other noise sensitive area in the vicinity of the premises, to determine compliance with L5.4.

L6 Hours of operation

L6.1 All quarrying and waste compaction activities at the premises must only be conducted between the following hours: 7.00am to 6.00pm Monday to Friday; 7.00am to 5.00pm Saturdays; and 8.00am to 5.00pm Sundays and Public Holidays.

L6.2 All waste receipt activities at the premises must only be conducted between the following hours: 6.00am to 6.00pm Monday to Friday; 7.00am to 5.00pm Saturdays; and 8.00am to 5.00pm Sundays and Public Holidays.

L7 Potentially offensive odour

L7.1 No condition of this licence identifies a potentially offensive odour for the purposes of section 129 of the Protection of the Environment Operations Act 1997.

Note: Section 129 of the Protection of the Environment Operations Act 1997, provides that the licensee must not cause or permit the emission of any offensive odour from the premises but provides a defence if 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 a licence directed at minimising odour.

4 Operating Conditions

Environment Protection Licence



Licence - 4068

O1 Activities must be carried out in a competent manner

O1.1 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.

O1.2 All operations and activities occurring at the premises must be carried out in a manner that will prevent and minimise fire at the premises.

O2 Maintenance of plant and equipment

O2.1 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.

O3 Dust

O3.1 The premises must be maintained in a condition which minimises or prevents the emission of dust from the premises.

O3.2 The licensee must ensure no material, including sediment, is tracked from the premises.

O4 Emergency response

O4.1 The licensee must maintain, and implement as necessary, a current emergency response plan for the premises. The licensee must keep the emergency response plan on the premises at all times. The emergency response plan must document systems and procedures to deal with all types of incidents (e.g. spills, explosions or fire) that may occur at the premises or that may be associated with activities that occur at the premises and which are likely to cause harm to the environment. If a current emergency response plan does not exist at the date on which this condition is attached to the licence, the licensee must develop an emergency response plan within three months of that date.

O5 Processes and management

O5.1 The licensee must take all practicable steps to control entry to the premises.

O5.2 Waste screening protocols for all waste must, at a minimum, be in accordance with Sections 3.1.5, 3.1.7 and 3.2.3, of the "Elizabeth Drive Landfill's Draft Management Manual Edition 1, Amendment 3, January 1998" (LEMP).

O5.3 Activities occurring at the premises must be carried out in a manner that will prevent litter escaping the

Environment Protection Licence



Licence - 4068

premises.

O6 Waste management

O6.1 General solid waste which is to be landfilled at the premises must be deposited within landfill cells D1, E3, E4, F2A, F1A, F3A, F1B, F2B and F3B only.

Note: No waste is to be disposed of in General Solid Waste Cell F1B until the separation geotextile is placed on the leachate drainage layer in accordance with the CQA Plan.

O6.2 Restricted solid waste which is to be landfilled at the Premises must be deposited within landfill cell A6, A7 and A8 only.

O6.3 The licensee must provide a report to the EPA which details the design, construction, operation and rehabilitation of any new landfill cell proposed to be constructed at the premises. This report must be submitted to the EPA at least six months before the licensee intends to construct the proposed new landfill cell. The report must also include details of a quality assurance / quality construction ("QA / QC") program which can demonstrate that the landfill cell will be constructed to meet its design specifications.

O6.4 The QA / QC report must detail the construction and design details of any new landfill cell, new sediment pond, or new leachate pond at the premises. This should include surveys and works as executed drawings, and results of a QA / QC program to verify that the cell and any sediment or leachate pond was constructed in accordance with its design.

O6.5 There must be no incineration or burning of any waste at the premises.

Covering of waste

O6.6 Cover material must be:

a) Daily cover

Daily cover material must be either:

- i) virgin excavated natural material (VENM); or
- ii) approved alternative daily cover (ADC).

Daily 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.

b) Intermediate cover

Virgin excavated natural material (VENM) must be applied to a depth of 30 centimetres over surfaces of the landfilled waste at the premises which are to be exposed for more than 90 days.

c) Cover material stockpile

At least two weeks cover material must be available at the premises under all weather conditions. This material may be won on site, or alternatively a cover stockpile must be maintained adjacent to the tip face.

Environment Protection Licence



Licence - 4068

- O6.7 For the purposes of condition O6.6 (a) (ii) the approved ADC is either:
1. ConCover that achieves the performance criteria specified in Section 8 Covering of Waste of NSW EPA Environmental Guidelines Solid Waste Landfills Second Edition, 2016; or
 2. a tarpaulin system (Tarpomatic or similar).
- ADC is not approved for use on the Restricted Solid Waste Landfill Cells.
- O6.8 Asbestos waste disposed of at the site must be covered:
1. initially at the time of disposal with either VENM to a depth of 0.15 metres or general solid waste to a depth of 0.5 metres; and
 2. at the end of each day's operation with either VENM to a depth of 0.5 metres or general solid waste to a depth of at least 1 metre.
- O6.9 Where wastes are received at the premises for purposes of storage or processing, or transfer to another premises, then such wastes are not required to be covered on a daily basis provided that:
- a) such wastes are stored and managed so as not cause or be likely to cause any off-site environmental effects;
 - b) such wastes are stored in a clearly defined area of the premises away from the tipping face.

Construction of General Solid Waste (non-putrescible) Landfill Cells - F Series

- O6.10 The licensee must construct the F series cells in accordance with the GHD prepared Detailed Drawings for the Construction (Our Ref: DOC15/344654-03; Your Ref: 21-24201 series and Our Ref: DOC18/879700-01; Your Ref: 21-27038 series), Specification (Our Ref: DOC15/344654-01; Your Ref: 21/24201/210643 and Our Ref: DOC18/879700-03; Your Ref: 21-27038 series), and Construction Quality Assurance Plan (Our Ref: DOC15/344654-02; Your Ref: 21/24201/210645 and Our Ref: DOC18/879700-02; Your Ref: 21-27038 series).
- O6.11 Waste must not be disposed of in any of the F series cells until the licensee has submitted to the EPA a Construction Quality Assurance Report, prepared in accordance with the Construction Quality Assurance Plan (Our Ref: DOC15/344654-02; Your Ref: 21/24201/210645) for the respective F series cell (or cells) and the licensee has written approval from the EPA to dispose of waste in the respective cell (or cells).

General Solid Waste (non-putrescible) Landfills Cells - Leachate Management

- O6.12 A leachate barrier system and leachate collection system must be installed in accordance with "NSW EPA Environmental Guidelines Solid Waste Landfills, Second Edition, 2016".
- O6.13 Leachate in any sump must not exceed a level that is equivalent to a saturated leachate depth of 300mm above the liner floor.
- O6.14 The licensee must have all leachate re-injection areas in the general solid waste (non-putrescible) landfill cells, banded at all times to contain the leachate.
- O6.15 The licensee must manage the disposal of waste at the premises in accordance with the progressive filling plan as specified in Section 1.7.5 of the LEMP.

Restricted Solid Waste Cells - Leachate Management System

Environment Protection Licence

Licence - 4068



- O6.16 All dedicated restricted solid waste cells must have a primary, secondary and tertiary leachate collection and conveyance system (LCCS), Flexible Membrane Liner, Fibre-reinforced Geosynthetic Clay Liner and re-compacted clay liner.
- O6.17 The primary and secondary LCCS must be:
- a) kept operational for a period at least up to the end of the post-closure care period of the landfill; and
 - b) chemically resistant to the chemicals in solution in the landfill leachate.
- O6.18 The depth of leachate in the primary LCCS must not exceed 300 mm.
- O6.19 All liquids extracted from the primary and secondary LCCS must be deemed to be leachate.
- O6.20 Only leachate which has originated from the restricted solid waste cells may be re-circulated into the restricted solid waste cells.

Restricted Solid Waste Landfill Cells - Height Limit

- O6.21 The finished surface or any intermediate surface for landfill Cells A3, A4 and A5 must be less than 25 metres above the secondary LCCS.

Note: Landfill Cells A3, A4 and A5 are as described in the documents "Variation to Construction of the industrial Waste Cell Lining System, Elizabeth Drive Landfill – Parsons Brinckerhoff Australia Pty Ltd, 4 December 2002" and "Elizabeth Drive Landfill – Specification for Lining Works, Cell A3 – Parsons Brinckerhoff Australia Pty Ltd, 4 December 2002" and "SITA Elizabeth Drive Landfill Licence Variation Application (Industrial Waste Cell A5)" – Maunsell Australia Pty Ltd - 16 January 2008.

Restricted Solid Waste Cells - Final Capping Specifications

- O6.22 The completed dedicated restricted solid waste landfill cells must have a final capping comprising a bearing layer, overlaid by a composite liner system, overlaid by a middle drainage layer, and overlaid by a vegetated top cover.
- O6.23 The bearing layer must comprise the 450mm layer of intermediate and daily cover.
- O6.24 The composite liner system must consist of a GCL of a permeability to water of less than 4×10^{-11} m/s, laid over a foundation layer of re-compacted clay at least 600 mm in thickness, and with a permeability to water of less than 10^{-9} m/s. The re-compacted clay must be placed in layers with a maximum thickness of 300 mm. Each successive lift must be of the same material and the surface of each underlying layer must be scoured to prevent extreme permeability due to laminations between layers. The final grade of the composite liner system must be not less than 2 per cent at any point of measurement.
- O6.25 A middle drainage layer must be placed over the composite liner system. The drainage layer must have an equivalent or greater transmissivity to 300 mm drainage aggregate with a permeability of 10^{-3} m/s
- O6.26 A revegetation layer of a depth of not less than 1 metre must be placed over the drainage layer. Plants selected for revegetation must have root systems that will not penetrate beyond the revegetation layer or block the drainage layer. The final grade of the vegetative layer should be between 3 and 5 per cent.

Environment Protection Licence



Licence - 4068

O6.27 The capping works for the restricted waste cells must be undertaken in accordance with the conditions of this licence and in accordance with the documentation prepared by GHD ref. 21/19947/179137 and 21/19947/187334

General Solid Waste (Non-Putrescible) Waste Landfill Cells - Final Capping

O6.28 The final capping of the general solid waste (non-putrescible) landfill cells must consist of a seal bearing layer of no less than 300mm as proposed in the document titled "SITA Environmental Solutions – Report for Elizabeth Drive Landfill – Final Capping Layer Design" prepared by GHD Pty Ltd on behalf of SITA Australia Pty Ltd (dated November 2006).

O6.29 The final capping of the general solid waste (non-putrescible) landfill cells must consist of a sealing layer of at least 500mm of compacted clay or shale having a permeability less than $k = 10^{-8} \text{ ms}^{-1}$ as described in the Environmental Guidelines: Solid Waste Landfills (1996).

O6.30 The final capping of the general solid waste (non-putrescible) landfill cells must consist of a revegetation layer at least 300mm thick as proposed in the document titled "SITA Environmental Solutions – Report for Elizabeth Drive Landfill – Final Capping Layer Design" prepared by GHD Pty Ltd on behalf of SITA Australia Pty Ltd (November, 2006). The revegetation layer must meet Australian Standard for composts and soil conditioners AS4454-2003 (unrestricted).

O6.31 The final capping of the general solid waste (non-putrescible) landfill cells must commence within 12 months of final landform contours for waste being achieved for each waste cell and be completed within 18 months of commencement.

O6.32 The licensee must undertake permeability tests at a frequency of one test for every 5000 square metres of upper surface of the sealing layer of the general solid (non-putrescible) waste landfill cells in accordance with AS 1289.6.7.3 (undisturbed).

O6.33 The construction of the capping works in the general solid (non-putrescible) waste landfill cells must be supervised by a suitably qualified and experienced person (such as a chartered professional engineer with Engineers Australia).

O6.34 Within 3 months of completing the capping of the general solid (non-putrescible) waste landfill cells, the licensee must provide the EPA with a report which contains:

- a) as constructed drawings prepared from field surveys which depict the bottom and top surface of the seal bearing layer, sealing layer and revegetation layer;
- b) the results of the tests conducted in accordance with Condition 06.24
- c) an assessment of the performance of the recently installed capping works.

Noise mitigation during capping activities

O6.35 During any capping activities at the premises, the licensee must implement each of the noise mitigation measures set out in Part 5 - Mitigation Measures of the report titled *Elizabeth Drive SAWT & Landfill - Cumulative Noise Assessment (Report No. 04092-L, version B) July 2009* prepared by Wilkinson Murray Pty Limited on behalf of the licensee.

Closure Plan

Environment Protection Licence

Licence - 4068



O6.36 The licensee must prepare and submit to the EPA, within twelve months prior to the last load of waste being landfilled, a closure plan in accordance with section 76 of the Protection of the Environment Operations Act 1997.

O7 Other operating conditions

Management of surface waters

O7.1 The surface of the landfilled area of the premises must be contoured to minimise the drainage of surface waters onto areas where waste has been landfilled, except during a rainfall event of not less than 1 in 10 year occurrence over a 24 hour period.

O7.2 Drainage from the waste facility not subject to waste disposal must be directed away from the areas at which waste is being disposed.

5 Monitoring and Recording Conditions

M1 Monitoring records

M1.1 The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.

M1.2 All records required to be kept by this licence must be:

- a) in a legible form, or in a form that can readily be reduced to a legible form;
- b) kept for at least 4 years after the monitoring or event to which they relate took place; and
- c) produced in a legible form to any authorised officer of the EPA who asks to see them.

M1.3 The following records must be kept in respect of any samples required to be collected for the purposes of this licence:

- a) the date(s) on which the sample was taken;
- b) the time(s) at which the sample was collected;
- c) the point at which the sample was taken; and
- d) the name of the person who collected the sample.

Requirement to keep records of restricted solid waste disposal

M1.4 The licensee must maintain records of the quantity, composition, source, and disposal locations of all consignments of restricted solid waste disposed of at the premises.

M1.5 The disposal locations must be recorded on the Australian Map Grid (AMG) and Australian Height Datum (AHD), or recorded on a grid and datum that can be readily converted to AMG and AHD.

M1.6 The recorded disposal locations must be recorded accurately with Global Positioning System (GPS).

Environment Protection Licence

Licence - 4068

M2 Requirement to monitor concentration of pollutants discharged

M2.1 For each monitoring/discharge point or utilisation area specified below (by a point number), the licensee must monitor (by sampling and obtaining results by analysis) the concentration of each pollutant specified in Column 1. The licensee must use the sampling method, units of measure, and sample at the frequency, specified opposite in the other columns:

M2.2 Air Monitoring Requirements

POINT 5,6,7,8,9,10

Pollutant	Units of measure	Frequency	Sampling Method
Particulates - Deposited Matter	grams per square metre per month	Quarterly	Australian Standard 3580.10.1-1991

POINT 45,46,47,48,49,50,51

Pollutant	Units of measure	Frequency	Sampling Method
Carbon dioxide	percent by volume	Quarterly	Special Method 2
Methane	percent by volume	Quarterly	Special Method 2

POINT 56,57

Pollutant	Units of measure	Frequency	Sampling Method
Dry gas density	kilogram per cubic metre	Special Frequency 3	TM 23
Hydrogen Sulfide	micrograms per cubic metre	Special Frequency 3	TM-5
Moi ture	percent	Special Frequency 3	TM 22
Molecular weight of stack gases	grams per gram mole	Special Frequency 3	TM-23
Nitrogen Oxides	milligrams per cubic metre	Special Frequency 3	TM-11
Oxygen (O ₂)	percent	Special Frequency 3	TM-25
Sulfuric acid mist and sulfur trioxide (as SO ₃)	milligrams per cubic metre	Special Frequency 3	TM-3
Sulphur dioxide	milligrams per cubic metre	Special Frequency 3	TM-4
Temperature	degrees Celsius	Special Frequency 3	TM-2
Velocity	metres per second	Special Frequency 3	TM-2
volatile organic compounds as n propane equivalent	milligrams per cubic metre	Special Frequency 3	TM-34
Volumetric flowrate	cubic metres per second	Special Frequency 3	TM-2

Environment Protection Licence

Licence - 4068

POINT 58

Pollutant	Units of measure	Frequency	Sampling Method
Temperature	degrees Celsius	Yearly	TM-2
Volumetric flowrate	cubic metres per second	Yearly	CEM-6

M2.3 For the purpose of the tables above, Special Frequency 3 means collection of samples must be collected and analysed at least once every 5 years.

M2.4 Water and/ or Land Monitoring Requirements

POINT 13,15,34,35

Pollutant	Units of measure	Frequency	Sampling Method
BOD	milligrams per litre	Special Frequency 1	Grab sample
Conductivity	microsiemens per centimetre	Special Frequency 1	Grab sample
Nitrogen (ammonia)	milligrams per litre	Special Frequency 1	Grab sample
Total organic carbon	milligrams per litre	Special Frequency 1	Grab sample
TSS	milligrams per litre	Special Frequency 1	Grab sample

POINT 16,17,18,19,20,21,22,54

Pollutant	Units of measure	Frequency	Sampling Method
Alkalinity (as calcium carbonate)	milligrams per litre	Every 6 months	Grab sample
Aluminium	milligrams per litre	Yearly	Grab sample
Arsenic	milligrams per litre	Yearly	Grab sample
Barium	milligrams per litre	Yearly	Grab sample
Benzene	milligrams per litre	Yearly	Grab sample
Cadmium	milligrams per litre	Yearly	Grab sample
Calcium	milligrams per litre	Every 6 months	Grab sample
Chloride	milligrams per litre	Every 6 months	Grab sample
Chromium	milligrams per litre	Yearly	Grab sample
Conductivity	microsiemens per centimetre	Every 6 months	Grab sample
Copper	milligrams per litre	Yearly	Grab sample
Dissolved Oxygen	milligrams per litre	Every 6 months	Grab sample
Fluoride	milligrams per litre	Every 6 months	Grab sample
Iron	milligrams per litre	Yearly	Grab sample
Lead	milligrams per litre	Yearly	Grab sample
Magnesium	milligrams per litre	Every 6 months	Grab sample
Manganese	milligrams per litre	Yearly	Grab sample

Environment Protection Licence

Licence - 4068

Mercury	milligrams per litre	Yearly	Grab sample
Nickel	milligrams per litre	Yearly	Grab sample
Nitrate	milligrams per litre	Every 6 months	Grab sample
Nitrite	milligrams per litre	Every 6 months	Grab sample
Nitrogen (ammonia)	milligrams per litre	Quarterly	Grab sample
Nitrogen (total)	milligrams per litre	Every 6 months	Grab sample
pH	pH	Every 6 months	Grab sample
Phenols	milligrams per litre	Every 6 months	Grab sample
Phosphorus (total)	milligrams per litre	Every 6 months	Grab sample
Polycyclic aromatic hydrocarbons	milligrams per litre	Every 6 months	Grab sample
Potassium	milligrams per litre	Every 6 months	Grab sample
Redox potential	millivolts	Every 6 months	Grab sample
Selenium	milligrams per litre	Every 6 months	Grab sample
Silver	milligrams per litre	Every 6 months	Grab sample
Sodium	milligrams per litre	Every 6 months	Grab sample
Standing Water Level	metres	Quarterly	In situ
Sulfate	milligrams per litre	Every 6 months	Grab sample
Total organic carbon	milligrams per litre	Quarterly	Grab sample
Total petroleum hydrocarbons	milligrams per litre	Every 6 months	Grab sample
Zinc	milligrams per litre	Yearly	Grab sample

POINT 23,24,25,31,33,59,60,61

Pollutant	Units of measure	Frequency	Sampling Method
BOD	milligrams per litre	Quarterly	Grab sample
Conductivity	microsiemens per centimetre	Quarterly	Grab sample
Nitrogen (ammonia)	milligrams per litre	Quarterly	Grab sample
pH	pH	Quarterly	Grab sample
Total organic carbon	milligrams per litre	Quarterly	Grab sample
Total suspended solids	milligrams per litre	Quarterly	Grab sample

POINT 26,27,28,29,36,38,40,41,43,44,52,55

Pollutant	Units of measure	Frequency	Sampling Method
Adsorbable Organic Halogens	milligrams per litre	Quarterly	Grab sample
Alkalinity (as calcium carbonate)	milligrams per litre	Quarterly	Grab sample
Aluminium	milligrams per litre	Quarterly	Grab sample
Arsenic	milligrams per litre	Quarterly	Grab sample
Barium	milligrams per litre	Quarterly	Grab sample
Benzene	milligrams per litre	Every 6 months	Grab sample

Environment Protection Licence

Licence - 4068

Bicarbonate	milligrams per litre	Quarterly	Grab sample
BOD	milligrams per litre	Quarterly	Grab sample
Cadmium	milligrams per litre	Quarterly	Grab sample
Calcium	milligrams per litre	Quarterly	Grab sample
Chemical oxygen demand	milligrams per litre	Yearly	Grab sample
Chloride	milligrams per litre	Quarterly	Grab sample
Chlorinated Hydrocarbons	milligrams per litre	Every 6 months	Grab sample
Chromium	milligrams per litre	Quarterly	Grab sample
Conductivity	microsiemens per centimetre	Quarterly	Grab sample
Copper	milligrams per litre	Quarterly	Grab sample
Dissolved Oxygen	milligrams per litre	Quarterly	Grab sample
Fluoride	milligrams per litre	Quarterly	Grab sample
Lead	milligrams per litre	Quarterly	Grab sample
Magnesium	milligrams per litre	Quarterly	Grab sample
Manganese	milligrams per litre	Quarterly	Grab sample
Mercury	milligrams per litre	Quarterly	Grab sample
Nickel	milligrams per litre	Every 6 months	Grab sample
Nitrate	milligrams per litre	Quarterly	Grab sample
Nitrite	milligrams per litre	Quarterly	Grab sample
Nitrogen (ammonia)	milligrams per litre	Quarterly	Grab sample
Nitrogen (total)	milligrams per litre	Quarterly	Grab sample
pH	pH	Quarterly	Grab sample
Phosphorus (total)	milligrams per litre	Quarterly	Grab sample
Polycyclic aromatic hydrocarbons	milligrams per litre	Every 6 months	Grab sample
Potassium	milligrams per litre	Quarterly	Grab sample
Redox potential	millivolts	Quarterly	Grab sample
Selenium	milligrams per litre	Yearly	Grab sample
Silica	milligrams per litre	Yearly	Grab sample
Silver	milligrams per litre	Yearly	Grab sample
Sodium	milligrams per litre	Quarterly	Grab sample
Standing Water Level	metres	Continuous	Continuously
Sulfate	milligrams per litre	Quarterly	Grab sample
Tin	milligrams per litre	Every 6 months	Grab sample
Total dissolved solids	milligrams per litre	Quarterly	Grab sample
Total organic carbon	milligrams per litre	Quarterly	Grab sample
Total Phenolics	milligrams per litre	Quarterly	Grab sample
Zinc	milligrams per litre	Quarterly	Grab sample

POINT 27,28,36,38,41,52

Pollutant	Units of measure	Frequency	Sampling Method
-----------	------------------	-----------	-----------------

Environment Protection Licence

Licence - 4068

Organotin Compounds (MBT, DBT & TBT)	micrograms per litre	Quarterly	Grab sample
--------------------------------------	----------------------	-----------	-------------

POINT 37,39,53

Pollutant	Units of measure	Frequency	Sampling Method
Adsorbable Organic Halogens	milligrams per litre	Special Frequency 4	Grab sample
Alkalinity (as calcium carbonate)	milligrams per litre	Special Frequency 4	Grab sample
Aluminium	milligrams per litre	Special Frequency 4	Grab sample
Arsenic	milligrams per litre	Special Frequency 4	Grab sample
Barium	milligrams per litre	Special Frequency 4	Grab sample
Benzene	milligrams per litre	Special Frequency 4	Grab sample
Bicarbonate	milligrams per litre	Special Frequency 4	Grab sample
BOD	milligrams per litre	Special Frequency 4	Grab sample
Cadmium	milligrams per litre	Special Frequency 4	Grab sample
Calcium	milligrams per litre	Special Frequency 4	Grab sample
Chemical oxygen demand	milligrams per litre	Special Frequency 4	Grab sample
Chloride	milligrams per litre	Special Frequency 4	Grab sample
Chlorinated Hydrocarbons	milligrams per litre	Special Frequency 4	Grab sample
Chromium	micrograms per litre	Special Frequency 4	Grab sample
Conductivity	microsiemens per centimetre	Special Frequency 4	Grab sample
Copper	milligrams per litre	Special Frequency 4	Grab sample
Dissolved Oxygen	milligrams per litre	Special Frequency 4	Grab sample
Fluoride	milligrams per litre	Special Frequency 4	Grab sample
Lead	milligrams per litre	Special Frequency 4	Grab sample
Magnesium	milligrams per litre	Special Frequency 4	Grab sample
Manganese	milligrams per litre	Special Frequency 4	Grab sample
Mercury	milligrams per litre	Special Frequency 4	Grab sample
Nickel	milligrams per litre	Special Frequency 4	Grab sample
Nitrate	milligrams per litre	Special Frequency 4	Grab sample
Nitrite	milligrams per litre	Special Frequency 4	Grab sample
Nitrogen (ammonia)	milligrams per litre	Special Frequency 4	Grab sample
Nitrogen (total)	milligrams per litre	Special Frequency 4	Grab sample
pH	pH	Special Frequency 4	Grab sample
Phosphorus	milligrams per litre	Special Frequency 4	Grab sample
Polycyclic aromatic hydrocarbons	milligrams per litre	Special Frequency 4	Grab sample
Potassium	milligrams per litre	Special Frequency 4	Grab sample
Redox potential	millivolts	Special Frequency 4	Grab sample
Selenium	milligrams per litre	Special Frequency 4	Grab sample
Silica	milligrams per litre	Special Frequency 4	Grab sample
Silver	milligrams per litre	Special Frequency 4	Grab sample

Environment Protection Licence



Licence - 4068

Sodium	milligrams per litre	Special Frequency 4	Grab sample
Standing Water Level	metres	Special Frequency 4	Continuously
Sulfate	milligrams per litre	Special Frequency 4	Grab sample
Tin	milligrams per litre	Special Frequency 4	Grab sample
Total dissolved solids	milligrams per litre	Special Frequency 4	Grab sample
Total organic carbon	milligrams per litre	Special Frequency 4	Grab sample
Total Phenolics	milligrams per litre	Special Frequency 4	Grab sample
Zinc	milligrams per litre	Special Frequency 4	Grab sample

M2.5 For the purpose of the tables above, Special Frequency 1 means collection of samples:

a) on the first day of the discharge from Points 13, 15, 34 and 35 and at least once every calendar month during continued discharge events thereafter.

M2.6 The licensee must monitor the leachate level continuously at Points 26, 28, 29 and 30.

M2.7 For the purpose of the tables above, Special Frequency 2 means subsurface gas monitoring must be undertaken in accordance with Section 5.3 of the "NSW EPA Environmental Guidelines Solid Waste Landfills, Second edition, 2016".

M2.8 For the purposes of the tables above, Special Frequency 4 means monitoring of the leachate detection system of the restricted solid waste cells for monitoring points 37, 39 and 53. Monitoring is to be undertaken quarterly and where sufficient liquid is available, must be analysed in accordance with the table.

Groundwater monitoring - Notification of exceedances

M2.9 In the event that monitoring of groundwater monitoring bores required under condition M2.1 of the licence detects ammonia in the groundwater at a concentration above 15mg/L in any of the points (EPA identification no.): 16, 17, 18, 19, 20, 21, 22 and 54, the licensee must send written notification to Director Waste Compliance within 14 days of monitoring results becoming available.

M2.10 The licensee must monitor the depressurised groundwater from the general solid (non-putrescible) waste cells. If the depressurised groundwater detects ammonia at a concentration above 15mg/L, the licensee must send written notification to Director Waste Compliance within 14 days of the monitoring results becoming available.

M3 Testing methods - concentration limits

M3.1 Monitoring for the concentration of a pollutant emitted to the air required to be conducted by this licence must be done in accordance with:

- any methodology which is required by or under the Act to be used for the testing of the concentration of the pollutant; or
- if no such requirement is imposed by or under the Act, any methodology which a condition of this

Environment Protection Licence



Licence - 4068

licence requires to be used for that testing; or

c) if no such requirement is imposed by or under the Act or by a condition of this licence, any methodology approved in writing by the EPA for the purposes of that testing prior to the testing taking place.

M3.2 Subject to any express provision to the contrary in this licence, monitoring for the concentration of a pollutant discharged to waters or applied to a utilisation area must be done in accordance with the Approved Methods Publication unless another method has been approved by the EPA in writing before any tests are conducted.

Note: The *Protection of the Environment Operations (Clean Air) Regulation 2010* requires testing for certain purposes to be conducted in accordance with test methods contained in the publication "Approved Methods for the Sampling and Analysis of Air Pollutants in NSW".

M4 Weather monitoring

M4.1 The licensee must monitor:

- a) daily wind speed and direction; and
- b) daily rainfall.

M5 Recording of pollution complaints

M5.1 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.

M5.2 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.

M5.3 The record of a complaint must be kept for at least 4 years after the complaint was made.

M5.4 The record must be produced to any authorised officer of the EPA who asks to see them.

M6 Telephone complaints line

M6.1 The licensee must operate during its operating hours a telephone complaints line for the purpose of receiving any complaints from members of the public in relation to activities conducted at the premises or

Environment Protection Licence

Licence - 4068



by the vehicle or mobile plant, unless otherwise specified in the licence.

- M6.2 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.
- M6.3 The preceding two conditions do not apply until 3 months after: the date of the issue of this licence.

M7 Other monitoring and recording conditions

Recording of fires

- M7.1 The licensee or its employees or agents must notify the EPA of the occurrence of all fires on the premises as soon as practical after becoming aware of the fire.
- M7.2 The licensee must record the following data for every fire at the premises:
 - a) time and date that the fire was started;
 - b) time and date that the fire was either burnt-out or extinguished;
 - c) location of the fire;
 - d) prevailing weather conditions; and
 - e) observations made with regard to smoke detection and dispersion.

Noise monitoring

- M7.3 Noise generated from the premises expressed as LA10(15 minute) must be measured at the three nearest affected residents every 12 months over a full working day.

Landfill gas monitoring

- M7.4 Landfill gas monitoring must be undertaken in accordance with Section 5 of the "NSW EPA Environmental Guidelines Solid Waste Landfills, Second edition, 2016" with the exception of surface gas emissions monitoring which is to be conducted quarterly.
- M7.5 If the subsurface or enclosed space gas monitoring detects methane concentrations above 1% (v/v), the licensee must:
 - a) notify the EPA within 24 hours;
 - b) increase the frequency of monitoring to daily until advised otherwise in writing by the EPA; and
 - c) submit a written assessment to the EPA within 14 days of the incident becoming known to the licensee; the report must detail the emissions, and the management controls implemented (or proposed to be implemented), to prevent further emissions.

Leachate monitoring in restricted solid waste cells

- M7.6 The licensee must monitor for the presence of leachate in secondary and tertiary LCCS drainage layers in all restricted solid waste landfill cells. If leachate is detected, the licensee must immediately take action in accordance with the 'Leak Response Plan' detailed in Part (e) of the licensee's letter to the EPA dated 24

Environment Protection Licence



Licence - 4068

July 2000.

M7.7 If Organotin compounds are detected in the leachate monitoring, the licensee must notify the EPA within 14 days.

6 Reporting Conditions

R1 Annual return documents

R1.1 The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:

1. a Statement of Compliance,
2. a Monitoring and Complaints Summary,
3. a Statement of Compliance - Licence Conditions,
4. a Statement of Compliance - Load based Fee,
5. a Statement of Compliance - Requirement to Prepare Pollution Incident Response Management Plan,
6. a Statement of Compliance - Requirement to Publish Pollution Monitoring Data; and
7. a Statement of Compliance - Environmental Management Systems and Practices.

At 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.

R1.2 An Annual Return must be prepared in respect of each reporting period, except as provided below.

R1.3 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.

R1.4 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.

R1.5 The Annual Return for the reporting period must be supplied to the EPA via eConnect *EPA* or 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').

R1.6 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.

R1.7 Within the Annual Return, the Statements of Compliance must be certified and the Monitoring and Complaints Summary must be signed by:

Environment Protection Licence



Licence - 4068

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

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.

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

R2 Notification of environmental harm

R2.1 Notifications must be made by telephoning the Environment Line service on 131 555.

R2.2 The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred.

Note: The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.

R3 Written report

R3.1 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.

R3.2 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.

R3.3 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;
- 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; and
- g) any other relevant matters.

R3.4 The EPA may make a written request for further details in relation to any of the above matters if it is not

Environment Protection Licence



Licence - 4068

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.

7 General Conditions

G1 Copy of licence kept at the premises or plant

- G1.1 A copy of this licence must be kept at the premises to which the licence applies.
- G1.2 The licence must be produced to any authorised officer of the EPA who asks to see it.
- G1.3 The licence must be available for inspection by any employee or agent of the licensee working at the premises.

8 Special Conditions

E1 Financial assurance

- E1.1 A financial assurance, in favour of the EPA, in the amount of one million, two hundred and fifty thousand dollars (\$1,250,000) must be maintained during the operation of the facility and thereafter until such time as the EPA is satisfied that the premises is environmentally secure.

This assurance must be replenished to the full amount should the EPA have reason to call up the assurance, or any part thereof, to correct environmental problems which have not been remedied by the occupier upon being given notice to do so.

Failure to maintain the assurance at the full amount will result in suspension of this licence.

E2 Environmental obligations of a licensee

- E2.1 While the licensee's premises are being used for the purpose to which the licence relates, the licensee must:
 - a) Clean up any spill, leak or other discharge of any waste(s) or other material(s) as soon as practicable after it becomes known to the licensee or to one of the licensee's employees or agents.
 - b) In the event(s) that any liquid and non-liquid waste(s) is unlawfully deposited on the premises, such waste(s) must be removed and lawfully disposed of as soon as practicable or in accordance with any direction given by the EPA.
 - c) Provide all monitoring data as required by the conditions of this licence or as directed by the EPA.

Environment Protection Licence

Licence - 4068

- E2.2 In the event of an earthquake, storm, fire, flood or any other event where it is reasonable to suspect that a pollution incident has occurred, is occurring or is likely to occur, the licensee must:
- Make all efforts to contain all fire water on the premises;
 - Make all efforts to control air pollution from the premises;
 - Make all efforts to contain any discharge, spill or run-off from the premises;
 - Make all efforts to prevent flood water entering the premises;
 - Remediate and rehabilitate any exposed areas of soil and/or waste;
 - Lawfully dispose of all liquid and solid waste(s) stored on the premises that is not already securely disposed of;
 - At the request of the EPA, monitor groundwater beneath the premises and its potential to migrate from the premises;
 - At the request of the EPA, monitor surface water leaving the premises; and
 - Ensure the premises is secure.
- E2.3 After the licensee's premises cease to be used for the purposes to which the licence relates or in the event that the licensee ceases to carry out the activity that is the subject of this licence, that licensee must:
- Remove and lawfully dispose of all liquid and non-liquid waste stored on the licensee's premises; and
 - Rehabilitate the premises, including conducting an assessment of the site and if required remediation of any site contamination.

E3 Construction and Interface Capping for Restricted Solid Waste Cells A6, A7 and A8

- E3.1 As filling progresses in restricted solid waste cells A6, A7 and A8, interface capping must be installed on the western batter of the landfill waste. The interface capping must comprise of the following:
- 300 mm thick layer of compacted soil;
 - geotextile protection layer;
 - 2 mm LLDPE geo membrane; and
 - drainage geo composite with geotextile bonded to the upper side only.

E4 Construction of restricted solid waste cell A8 and A9

- E4.1 The licensee must construct restricted solid waste cells A8 and A9 in accordance with the GHD prepared drawings (21-19947-C411 to 21-19947-C412), Technical Specifications (2126272 dated August 2017), Construction Quality Assurance Plan (2126272 dated August 2017) and Supplementary Design Information (2126272-80241 dated 10 October 2017).

Environment Protection Licence

Licence - 4068

Dictionary

General Dictionary

3DGM [in relation to a concentration limit]	Means the three day geometric mean, which is calculated by multiplying the results of the analysis of three samples collected on consecutive days and then taking the cubed root of that amount. Where one or more of the samples is zero or below the detection limit for the analysis, then 1 or the detection limit respectively should be used in place of those samples
Act	Means the Protection of the Environment Operations Act 1997
activity	Means a scheduled or non-scheduled activity within the meaning of the Protection of the Environment Operations Act 1997
actual load	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
AM	Together with a number, means an ambient air monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
AMG	Australian Map Grid
anniversary date	The anniversary date is the anniversary each year of the date of issue of the licence. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
annual return	Is defined in R1.1
Approved Methods Publication	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
assessable pollutants	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
BOD	Means biochemical oxygen demand
CEM	Together with a number, means a continuous emission monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
COD	Means chemical oxygen demand
composite sample	Unless otherwise specifically approved in writing by the EPA, a sample consisting of 24 individual samples collected at hourly intervals and each having an equivalent volume.
cond.	Means conductivity
environment	Has the same meaning as in the Protection of the Environment Operations Act 1997
environment protection legislation	Has the same meaning as in the Protection of the Environment Administration Act 1991
EPA	Means Environment Protection Authority of New South Wales.
fee-based activity classification	Means the numbered short descriptions in Schedule 1 of the Protection of the Environment Operations (General) Regulation 2009.
general solid waste (non-putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997

Environment Protection Licence

Licence - 4068

flow weighted composite sample	Means a sample whose composites are sized in proportion to the flow at each composites time of collection.
general solid waste (putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
grab sample	Means a single sample taken at a point at a single time
hazardous waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
licensee	Means the licence holder described at the front of this licence
load calculation protocol	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
local authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
material harm	Has the same meaning as in section 147 Protection of the Environment Operations Act 1997
MBAS	Means methylene blue active substances
Minister	Means the Minister administering the Protection of the Environment Operations Act 1997
mobile plant	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
motor vehicle	Has the same meaning as in the Protection of the Environment Operations Act 1997
O&G	Means oil and grease
percentile [in relation to a concentration limit of a sample]	Means that percentage [eg.50%] of the number of samples taken that must meet the concentration limit specified in the licence for that pollutant over a specified period of time. In this licence, the specified period of time is the Reporting Period unless otherwise stated in this licence.
plant	Includes all plant within the meaning of the Protection of the Environment Operations Act 1997 as well as motor vehicles.
pollution of waters [or water pollution]	Has the same meaning as in the Protection of the Environment Operations Act 1997
premises	Means the premises described in condition A2.1
public authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
regional office	Means the relevant EPA office referred to in the Contacting the EPA document accompanying this licence
reporting period	For the purposes of this licence, the reporting period means the period of 12 months after the issue of the licence, and each subsequent period of 12 months. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
restricted solid waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
scheduled activity	Means an activity listed in Schedule 1 of the Protection of the Environment Operations Act 1997
special waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
TM	Together with a number, means a test method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .

Environment Protection Licence



Licence - 4068

TSP	Means total suspended particles
TSS	Means total suspended solids
Type 1 substance	Means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or more of those elements
Type 2 substance	Means the elements beryllium, chromium, cobalt, manganese, nickel, selenium, tin or vanadium or any compound containing one or more of those elements
utilisation area	Means any area shown as a utilisation area on a map submitted with the application for this licence
waste	Has the same meaning as in the Protection of the Environment Operations Act 1997
waste type	Means liquid, restricted solid waste, general solid waste (putrescible), general solid waste (non - putrescible), special waste or hazardous waste

Mr Bernie Weir

Environment Protection Authority

(By Delegation)

Date of this edition: 13-September-2001

Environment Protection Licence

Licence - 4068

End Notes

- 1 Licence varied by notice 1012274, issued on 22-Nov-2001, which came into effect on 17-Dec-2001.
- 2 Licence transferred through application 140946, approved on 04-Dec-2001, which came into effect on 04-Dec-2001.
- 3 Licence varied by Change of contact details, issued on 04-Mar-2002, which came into effect on 04-Mar-2002.
- 4 Licence varied by notice 1027794, issued on 02-Jun-2003, which came into effect on 27-Jun-2003.
- 5 Licence varied by notice 1052725, issued on 24-Jan-2006, which came into effect on 18-Feb-2006.
- 6 Licence varied by notice 1061021, issued on 12-Sep-2006, which came into effect on 12-Sep-2006.
- 7 Licence varied by notice 1065278, issued on 25-Oct-2006, which came into effect on 25-Oct-2006.
- 8 Licence varied by notice 1073171, issued on 21-Sep-2007, which came into effect on 21-Sep-2007.
- 9 Condition A1.3 Not applicable varied by notice issued on <issue date> which came into effect on <effective date>
- 10 Licence varied by notice 1083456, issued on 13-Jan-2009, which came into effect on 13-Jan-2009.
- 11 Licence varied by notice 1098074, issued on 27-Feb-2009, which came into effect on 27-Feb-2009.
- 12 Licence varied by notice 1099619, issued on 08-May-2009, which came into effect on 08-May-2009.
- 13 Licence varied by notice 1104883, issued on 15-Sep-2009, which came into effect on 15-Sep-2009.
- 14 Licence varied by notice 1114444, issued on 28-May-2010, which came into effect on 28-May-2010.
- 15 Licence varied by Correction to EPA Region data record., issued on 28-Jun-2010, which came into effect on 28-Jun-2010.
- 16 Licence varied by correction to DECCW Region data record, issued on 07-Jul-2010, which came into effect on 07-Jul-2010.
- 17 Licence varied by notice 1118752, issued on 25-Aug-2010, which came into effect on 25-Aug-2010.

Environment Protection Licence

Licence - 4068

18	Licence varied by notice 1122735, issued on 21-Dec-2010, which came into effect on 21-Dec-2010.
19	Licence varied by notice 1123246, issued on 24-Dec-2010, which came into effect on 24-Dec-2010.
20	Licence varied by notice 1501920 issued on 17-Apr-2014
21	Licence varied by notice 1523868 issued on 03-Sep-2014
22	Licence varied by notice 1525173 issued on 11-Dec-2014
23	Licence varied by notice 1530567 issued on 27-Jul-2015
24	Licence varied by notice 1534554 issued on 17-Nov-2015
25	Licence varied by notice 1540226 issued on 23-May-2016
26	Licence varied by notice 1546828 issued on 21-Nov-2016
27	Licence varied by notice 1554158 issued on 14-Aug-2017
28	Licence varied by notice 1556706 issued on 04-Dec-2017
29	Licence varied by notice 1562775 issued on 20-Mar-2018
30	Licence varied by notice 1564175 issued on 19-Jun-2018
31	Licence varied by notice 1568493 issued on 18-Sep-2018
32	Licence varied by notice 1571059 issued on 14-Dec-2018
33	Licence varied by notice 1574677 issued on 06-Feb-2019
34	Licence varied by notice 1575926 issued on 06-Jun-2019

Environment Protection Licence

Licence - 4414

Licence Details	
Number:	4414
Anniversary Date:	11-January

Licensee
ONESTEEL RECYCLING PTY LIMITED
PO BOX 329
LIVERPOOL NSW 2170

Premises
ONESTEEL RECYCLING
LOT 5, 243 BERKELEY RD
UNANDERRA NSW 2526

Scheduled Activity
Metallurgical activities

Fee Based Activity	Scale
Metal waste generation	> 5-100 T annual volume of waste generated or stored
Scrap metal processing	0-100000 T annual production capacity

Region
Waste & Resource Recovery
59-61 Goulburn Street
SYDNEY NSW 2000
Phone: (02) 9995 5000
Fax: (02) 9995 5999
PO Box A290 SYDNEY SOUTH
NSW 1232

Environment Protection Licence



Licence - 4414

INFORMATION ABOUT THIS LICENCE	4
Dictionary	4
Responsibilities of licensee	4
Variation of licence conditions	4
Duration of licence	4
Licence review	4
Fees and annual return to be sent to the EPA	4
Transfer of licence	5
Public register and access to monitoring data	5
1 ADMINISTRATIVE CONDITIONS	6
A1 What the licence authorises and regulates	6
A2 Premises or plant to which this licence applies	6
A3 Information supplied to the EPA	6
2 LIMIT CONDITIONS	7
L1 Pollution of waters	7
L2 Waste	7
L3 Potentially offensive odour	7
3 OPERATING CONDITIONS	7
O1 Activities must be carried out in a competent manner	7
O2 Maintenance of plant and equipment	8
O3 Dust	8
O4 Emergency response	8
O5 Processes and management	8
O6 Other operating conditions	8
4 MONITORING AND RECORDING CONDITIONS	9
M1 Monitoring records	9
M2 Recording of pollution complaints	9
M3 Telephone complaints line	9
5 REPORTING CONDITIONS	10
R1 Annual return documents	10
R2 Notification of environmental harm	11
R3 Written report	11
6 GENERAL CONDITIONS	12
G1 Copy of licence kept at the premises or plant	12

Environment Protection Licence



Licence - 4414

7	POLLUTION STUDIES AND REDUCTION PROGRAMS	12
U1	Completed PRP Table	12
DICTIONARY		13
	General Dictionary	13

Environment Protection Licence

Licence - 4414



Information about this licence

Dictionary

A definition of terms used in the licence can be found in the dictionary at the end of this licence.

Responsibilities of licensee

Separate to the requirements of this licence, general obligations of licensees are set out in the Protection of the Environment Operations Act 1997 ("the Act") and the Regulations made under the Act. These include obligations to:

- ensure persons associated with you comply with this licence, as set out in section 64 of the Act;
- control the pollution of waters and the pollution of air (see for example sections 120 - 132 of the Act);
- report incidents causing or threatening material environmental harm to the environment, as set out in Part 5.7 of the Act.

Variation of licence conditions

The licence holder can apply to vary the conditions of this licence. An application form for this purpose is available from the EPA.

The EPA may also vary the conditions of the licence at any time by written notice without an application being made.

Where a licence has been granted in relation to development which was assessed under the Environmental Planning and Assessment Act 1979 in accordance with the procedures applying to integrated development, the EPA may not impose conditions which are inconsistent with the development consent conditions until the licence is first reviewed under Part 3.6 of the Act.

Duration of licence

This licence will remain in force until the licence is surrendered by the licence holder or until it is suspended or revoked by the EPA or the Minister. A licence may only be surrendered with the written approval of the EPA.

Licence review

The Act requires that the EPA review your licence at least every 5 years after the issue of the licence, as set out in Part 3.6 and Schedule 5 of the Act. You will receive advance notice of the licence review.

Fees and annual return to be sent to the EPA

For each licence fee period you must pay:

- an administrative fee; and
- a load-based fee (if applicable).

Environment Protection Licence

Licence - 4414



The EPA publication “A Guide to Licensing” contains information about how to calculate your licence fees. The licence requires that an Annual Return, comprising a Statement of Compliance and a summary of any monitoring required by the licence (including the recording of complaints), be submitted to the EPA. The Annual Return must be submitted within 60 days after the end of each reporting period. See condition R1 regarding the Annual Return reporting requirements.

Usually the licence fee period is the same as the reporting period.

Transfer of licence

The licence holder can apply to transfer the licence to another person. An application form for this purpose is available from the EPA.

Public register and access to monitoring data

Part 9.5 of the Act requires the EPA to keep a public register of details and decisions of the EPA in relation to, for example:

- licence applications;
- licence conditions and variations;
- statements of compliance;
- load based licensing information; and
- load reduction agreements.

Under s320 of the Act application can be made to the EPA for access to monitoring data which has been submitted to the EPA by licensees.

This licence is issued to:

ONESTEEL RECYCLING PTY LIMITED
PO BOX 329
LIVERPOOL NSW 2170

subject to the conditions which follow.

Environment Protection Licence

Licence - 4414

1 Administrative Conditions

A1 What the licence authorises and regulates

A1.1 This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, fee-based activity classification and the scale of the operation.

Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition.

Scheduled Activity	Fee Based Activity	Scale
Metallurgical activities	Metal waste generation	> 5 - 100 T annual volume of waste generated or stored
Metallurgical activities	Scrap metal processing	0 - 100000 T annual production capacity

A2 Premises or plant to which this licence applies

A2.1 The licence applies to the following premises:

Premises Details
ONESTEEL RECYCLING
LOT 5, 243 BERKELEY RD
UNANDERRA
NSW 2526
LOT 2 DP 739074, LOT 3 DP 739074

A3 Information supplied to the EPA

A3.1 Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence.

In this condition the reference to "the licence application" includes a reference to:

- a) the applications for any licences (including former pollution control approvals) which this licence replaces under the Protection of the Environment Operations (Savings and Transitional) Regulation 1998; and
- b) the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence.

A3.2 Any other document and/or management plan is not to be taken as part of the documentation in condition A3.1, other than those documents and/or management plans specifically referenced in this licence.

Environment Protection Licence

Licence - 4414



2 Limit Conditions

L1 Pollution of waters

L1.1 Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the Protection of the Environment Operations Act 1997.

L2 Waste

L2.1 The licensee must not cause, permit or allow any waste to be received at the premises, except the wastes expressly referred to in the column titled "Waste" and meeting the definition, if any, in the column titled "Description" in the table below.

Any waste received at the premises must only be used for the activities referred to in relation to that waste in the column titled "Activity" in the table below.

Any waste received at the premises is subject to those limits or conditions, if any, referred to in relation to that waste contained in the column titled "Other Limits" in the table below.

This condition does not limit any other conditions in this licence.

Code	Waste	Description	Activity	Other Limits
D220	Lead acid batteries	As defined in Schedule 1 of the POEO Act, as in force from time to time	Resource recovery Metallurgical Activities	NA
NA	Scrap metal	Ferrous and non-ferrous metal	Resource recovery Metallurgical Activities	NA

L3 Potentially offensive odour

L3.1 The licensee must not cause or permit the emission of offensive odour beyond the boundary of the premises.

3 Operating Conditions

O1 Activities must be carried out in a competent manner

O1.1 Licensed activities must be carried out in a competent manner.

This includes:

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

Note: Page break.

Environment Protection Licence



Licence - 4414

O2 Maintenance of plant and equipment

- O2.1 All plant and equipment installed at the premises or used in connection with the licensed activity:
- must be maintained in a proper and efficient condition; and
 - must be operated in a proper and efficient manner.

O3 Dust

- O3.1 The premises must be maintained in a condition which prevents or minimises the emission of dust from the premises.
- O3.2 Activities must be carried out in a manner which prevents or minimises the generation of dust.

O4 Emergency response

- O4.1 The licensee must have in place and implement procedures to minimise the risk of fire at the premises.

O5 Processes and management

- O5.1 The licensee must take all practicable measures to minimise the tracking of mud, waste and other materials by vehicles leaving the premises.
- O5.2 Clean stormwater must be diverted away from all areas where waste is located.
- O5.3 Any waste for processing, storage or resource recovery at the premises must be assessed and classified in accordance with the *EPA Waste Classification Guidelines* as in force from time to time.
- O5.4 There must be no burning or incineration of waste at the premises.

O6 Other operating conditions

- O6.1 All trucks leaving the unsealed part of the yard must pass through the truck wash.

Note: The yard area of the premises is marked "Yard" on the aerial photograph titled "Photograph 1: Aerial Photograph of Premises, 18/3/08" which is held on EPA file number LIC07/1779.

- O6.2 The yard surface of the premises must be:
- maintained in a condition to minimise the generation of mud, dust, and runoff of sediment and;
 - be graded to maintain a level sloping surface, and prevent ponding of water, and allow stormwater to drain to the collection system.

Environment Protection Licence



Licence - 4414

Note: EPA will periodically inspect the yard surface integrity provided by any compacted cover. If the material appears ineffective in maintaining the surface integrity, in consultation with the licensee EPA will discuss a schedule for concreting the entire yard.

4 Monitoring and Recording Conditions

M1 Monitoring records

- M1.1 The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.
- M1.2 All records required to be kept by this licence must be:
- a) in a legible form, or in a form that can readily be reduced to a legible form;
 - b) kept for at least 4 years after the monitoring or event to which they relate took place; and
 - c) produced in a legible form to any authorised officer of the EPA who asks to see them.
- M1.3 The following records must be kept in respect of any samples required to be collected for the purposes of this licence:
- a) the date(s) on which the sample was taken;
 - b) the time(s) at which the sample was collected;
 - c) the point at which the sample was taken; and
 - d) the name of the person who collected the sample.

M2 Recording of pollution complaints

- M2.1 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.
- M2.2 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.
- M2.3 The record of a complaint must be kept for at least 4 years after the complaint was made.
- M2.4 The record must be produced to any authorised officer of the EPA who asks to see them.

M3 Telephone complaints line

- M3.1 The licensee must operate during its operating hours a telephone complaints line for the purpose of

Environment Protection Licence



Licence - 4414

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.

- M3.2 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.
- M3.3 The preceding two conditions do not apply until 3 months after: the date of the issue of this licence.

5 Reporting Conditions

R1 Annual return documents

- R1.1 The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:
1. a Statement of Compliance,
 2. a Monitoring and Complaints Summary,
 3. a Statement of Compliance - Licence Conditions,
 4. a Statement of Compliance - Load based Fee,
 5. a Statement of Compliance - Requirement to Prepare Pollution Incident Response Management Plan,
 6. a Statement of Compliance - Requirement to Publish Pollution Monitoring Data; and
 7. a Statement of Compliance - Environmental Management Systems and Practices.

At 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.

- R1.2 The Licensee must include a summary of all yard maintenance and repair activities undertaken during the licence year to maintain the yard surface in accordance with condition O6.3.
- R1.3 An Annual Return must be prepared in respect of each reporting period, except as provided below.
- R1.4 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.
- R1.5 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.
- R1.6 The Annual Return for the reporting period must be supplied to the EPA via eConnect *EPA* or 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').
- R1.7 The licensee must retain a copy of the Annual Return supplied to the EPA for a period of at least 4 years

Environment Protection Licence



Licence - 4414

after the Annual Return was due to be supplied to the EPA.

- R1.8 Within the Annual Return, the Statements 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.

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.

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

R2 Notification of environmental harm

Note: The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.

- R2.1 Notifications must be made by telephoning the Environment Line service on 131 555.
- R2.2 The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred.

R3 Written report

- R3.1 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.
- R3.2 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.
- R3.3 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;
 - 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

Environment Protection Licence



Licence - 4414

such an event; and
g) any other relevant matters.

R3.4 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.

6 General Conditions

G1 Copy of licence kept at the premises or plant

G1.1 A copy of this licence must be kept at the premises to which the licence applies.

G1.2 The licence must be produced to any authorised officer of the EPA who asks to see it.

G1.3 The licence must be available for inspection by any employee or agent of the licensee working at the premises.

7 Pollution Studies and Reduction Programs

U1 Completed PRP Table

U1.1 Completed PRP Table

PRP Number	Title	Completed
1	Development of Program of Works to Improve the Site Surface Quality	31/10/07
2	Installation of Shaker and Truck Wheel Wash System	15/4/07
3	Installation Of A Water Management System And Improvements To The Surface Of The Yard Area	29/8/11

Environment Protection Licence

Licence - 4414

Dictionary

General Dictionary

3DGM [in relation to a concentration limit]	Means the three day geometric mean, which is calculated by multiplying the results of the analysis of three samples collected on consecutive days and then taking the cubed root of that amount. Where one or more of the samples is zero or below the detection limit for the analysis, then 1 or the detection limit respectively should be used in place of those samples
Act	Means the Protection of the Environment Operations Act 1997
activity	Means a scheduled or non-scheduled activity within the meaning of the Protection of the Environment Operations Act 1997
actual load	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
AM	Together with a number, means an ambient air monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
AMG	Australian Map Grid
anniversary date	The anniversary date is the anniversary each year of the date of issue of the licence. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
annual return	Is defined in R1.1
Approved Methods Publication	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
assessable pollutants	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
BOD	Means biochemical oxygen demand
CEM	Together with a number, means a continuous emission monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
COD	Means chemical oxygen demand
composite sample	Unless otherwise specifically approved in writing by the EPA, a sample consisting of 24 individual samples collected at hourly intervals and each having an equivalent volume.
cond.	Means conductivity
environment	Has the same meaning as in the Protection of the Environment Operations Act 1997
environment protection legislation	Has the same meaning as in the Protection of the Environment Administration Act 1991
EPA	Means Environment Protection Authority of New South Wales.
fee-based activity classification	Means the numbered short descriptions in Schedule 1 of the Protection of the Environment Operations (General) Regulation 2009.
general solid waste (non-putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997

Environment Protection Licence



Licence - 4414

flow weighted composite sample	Means a sample whose composites are sized in proportion to the flow at each composites time of collection.
general solid waste (putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
grab sample	Means a single sample taken at a point at a single time
hazardous waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
licensee	Means the licence holder described at the front of this licence
load calculation protocol	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
local authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
material harm	Has the same meaning as in section 147 Protection of the Environment Operations Act 1997
MBAS	Means methylene blue active substances
Minister	Means the Minister administering the Protection of the Environment Operations Act 1997
mobile plant	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
motor vehicle	Has the same meaning as in the Protection of the Environment Operations Act 1997
O&G	Means oil and grease
percentile [in relation to a concentration limit of a sample]	Means that percentage [eg.50%] of the number of samples taken that must meet the concentration limit specified in the licence for that pollutant over a specified period of time. In this licence, the specified period of time is the Reporting Period unless otherwise stated in this licence.
plant	Includes all plant within the meaning of the Protection of the Environment Operations Act 1997 as well as motor vehicles.
pollution of waters [or water pollution]	Has the same meaning as in the Protection of the Environment Operations Act 1997
premises	Means the premises described in condition A2.1
public authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
regional office	Means the relevant EPA office referred to in the Contacting the EPA document accompanying this licence
reporting period	For the purposes of this licence, the reporting period means the period of 12 months after the issue of the licence, and each subsequent period of 12 months. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
restricted solid waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
scheduled activity	Means an activity listed in Schedule 1 of the Protection of the Environment Operations Act 1997
special waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
TM	Together with a number, means a test method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .

Environment Protection Licence



Licence - 4414

TSP	Means total suspended particles
TSS	Means total suspended solids
Type 1 substance	Means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or more of those elements
Type 2 substance	Means the elements beryllium, chromium, cobalt, manganese, nickel, selenium, tin or vanadium or any compound containing one or more of those elements
utilisation area	Means any area shown as a utilisation area on a map submitted with the application for this licence
waste	Has the same meaning as in the Protection of the Environment Operations Act 1997
waste type	Means liquid, restricted solid waste, general solid waste (putrescible), general solid waste (non - putrescible), special waste or hazardous waste

Ms Nadia Kanhoush

Environment Protection Authority

(By Delegation)

Date of this edition: 27-July-2000

Environment Protection Licence

Licence - 4414



End Notes

- 1 Licence varied by Change of contact details, issued on 04-Mar-2002, which came into effect on 04-Mar-2002.
- 2 Licence varied by change to DEC Region allocation, issued on 17-Mar-2006, which came into effect on 17-Mar-2006.
- 3 Licence varied by notice 1073148, issued on 13-Jul-2007, which came into effect on 13-Jul-2007.
- 4 Licence varied by notice 1080879, issued on 06-Dec-2007, which came into effect on 06-Dec-2007.
- 5 Licence varied by notice 1084080, issued on 04-Apr-2008, which came into effect on 04-Apr-2008.
- 6 Licence varied by notice 1084841, issued on 15-Apr-2008, which came into effect on 15-Apr-2008.
- 7 Licence varied by notice 1093231, issued on 07-Nov-2008, which came into effect on 07-Nov-2008.
- 8 Condition A1.3 Not applicable varied by notice issued on <issue date> which came into effect on <effective date>
- 9 Licence varied by notice 1099220, issued on 26-May-2009, which came into effect on 26 May 2009
- 10 Licence varied by notice 1109663, issued on 08-Mar-2010, which came into effect on 08-Mar-2010.
- 11 Licence varied by notice 1501317 issued on 29-Aug-2011
- 12 Licence varied by notice 1555103 issued on 27-Aug-2017

Environment Protection Licence

Licence - 10251

Licence Details	
Number:	10251
Anniversary Date:	29-September

Licensee
CLEANAWAY OPERATIONS PTY LTD
PO BOX 203
PORT KEMBLA NSW 2505

Premises
TRANSPACIFIC INDUSTRIES
10-12 WAYNOTE PLACE
UNANDERRA NSW 2526

Scheduled Activity
Contaminated soil treatment
Resource recovery
Waste processing (non-thermal treatment)
Waste storage

Fee Based Activity	Scale
Contaminated soil treatment	Any annual handling capacity
Non-thermal treatment of hazardous and other waste	Any annual processing capacity
Recovery of general waste	Any general waste recovered
Waste storage - hazardous, restricted solid, liquid, clinical and related waste and asbestos waste	Any listed waste type stored

Region
Hazardous Materials, Chemicals & Radiation
59-61 Goulburn Street
SYDNEY NSW 2000
Phone: (02) 9995 5000
Fax: (02) 9995 5999
PO Box A290
SYDNEY SOUTH NSW 1232



Environment Protection Licence

Licence - 10251

INFORMATION ABOUT THIS LICENCE	4
Dictionary	4
Responsibilities of licensee	4
Variation of licence conditions	4
Duration of licence	4
Licence review	4
Fees and annual return to be sent to the EPA	4
Transfer of licence	5
Public register and access to monitoring data	5
1 ADMINISTRATIVE CONDITIONS	6
A1 What the licence authorises and regulates	6
A2 Premises or plant to which this licence applies	6
A3 Other activities	6
A4 Information supplied to the EPA	6
2 DISCHARGES TO AIR AND WATER AND APPLICATIONS TO LAND	7
P1 Location of monitoring/discharge points and areas	7
3 LIMIT CONDITIONS	8
L1 Pollution of waters	8
L2 Waste	8
L3 Noise limits	9
L4 Potentially offensive odour	10
4 OPERATING CONDITIONS	10
O1 Activities must be carried out in a competent manner	10
O2 Maintenance of plant and equipment	10
O3 Dust	10
O4 Emergency response	11
O5 Processes and management	11
O6 Waste management	11
O7 Other operating conditions	14
5 MONITORING AND RECORDING CONDITIONS	14
M1 Monitoring records	14
M2 Requirement to monitor concentration of pollutants discharged	14
M3 Testing methods - concentration limits	15
M4 Weather monitoring	15



Environment Protection Licence

Licence - 10251

M5	Recording of pollution complaints	16
M6	Telephone complaints line	16
6	REPORTING CONDITIONS	16
R1	Annual return documents	16
R2	Notification of environmental harm	17
R3	Written report	18
7	GENERAL CONDITIONS	18
G1	Copy of licence kept at the premises or plant	18
DICTIONARY		19
	General Dictionary	19

Environment Protection Licence

Licence - 10251



Information about this licence

Dictionary

A definition of terms used in the licence can be found in the dictionary at the end of this licence.

Responsibilities of licensee

Separate to the requirements of this licence, general obligations of licensees are set out in the Protection of the Environment Operations Act 1997 ("the Act") and the Regulations made under the Act. These include obligations to:

- ensure persons associated with you comply with this licence, as set out in section 64 of the Act;
- control the pollution of waters and the pollution of air (see for example sections 120 - 132 of the Act);
- report incidents causing or threatening material environmental harm to the environment, as set out in Part 5.7 of the Act.

Variation of licence conditions

The licence holder can apply to vary the conditions of this licence. An application form for this purpose is available from the EPA.

The EPA may also vary the conditions of the licence at any time by written notice without an application being made.

Where a licence has been granted in relation to development which was assessed under the Environmental Planning and Assessment Act 1979 in accordance with the procedures applying to integrated development, the EPA may not impose conditions which are inconsistent with the development consent conditions until the licence is first reviewed under Part 3.6 of the Act.

Duration of licence

This licence will remain in force until the licence is surrendered by the licence holder or until it is suspended or revoked by the EPA or the Minister. A licence may only be surrendered with the written approval of the EPA.

Licence review

The Act requires that the EPA review your licence at least every 5 years after the issue of the licence, as set out in Part 3.6 and Schedule 5 of the Act. You will receive advance notice of the licence review.

Fees and annual return to be sent to the EPA

For each licence fee period you must pay:

- an administrative fee; and
- a load-based fee (if applicable).

Environment Protection Licence



Licence - 10251

The EPA publication “A Guide to Licensing” contains information about how to calculate your licence fees. The licence requires that an Annual Return, comprising a Statement of Compliance and a summary of any monitoring required by the licence (including the recording of complaints), be submitted to the EPA. The Annual Return must be submitted within 60 days after the end of each reporting period. See condition R1 regarding the Annual Return reporting requirements.

Usually the licence fee period is the same as the reporting period.

Transfer of licence

The licence holder can apply to transfer the licence to another person. An application form for this purpose is available from the EPA.

Public register and access to monitoring data

Part 9.5 of the Act requires the EPA to keep a public register of details and decisions of the EPA in relation to, for example:

- licence applications;
- licence conditions and variations;
- statements of compliance;
- load based licensing information; and
- load reduction agreements.

Under s320 of the Act application can be made to the EPA for access to monitoring data which has been submitted to the EPA by licensees.

This licence is issued to:

CLEANAWAY OPERATIONS PTY LTD
PO BOX 203
PORT KEMBLA NSW 2505

subject to the conditions which follow.

Environment Protection Licence

Licence - 10251

1 Administrative Conditions

A1 What the licence authorises and regulates

A1.1 This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, fee-based activity classification and the scale of the operation.

Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition.

Scheduled Activity	Fee Based Activity	Scale
Contaminated soil treatment	Contaminated soil treatment	Any annual handling capacity
Waste processing (non-thermal treatment)	Non-thermal treatment of hazardous and other waste	Any annual processing capacity
Resource recovery	Recovery of general waste	Any general waste recovered
Waste storage	Waste storage - hazardous, restricted solid, liquid, clinical and related waste and asbestos waste	Any listed waste type stored

A2 Premises or plant to which this licence applies

A2.1 The licence applies to the following premises:

Premises Details
TRANSPACIFIC INDUSTRIES
10-12 WAYNOTE PLACE
UNANDERRA
NSW 2526

A3 Other activities

A3.1 This licence applies to all other activities carried on at the premises, including:

Ancillary Activity
Crushing, Grinding or Separating Works

A4 Information supplied to the EPA

Environment Protection Licence



Licence - 10251

- A4.1 Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence.

In this condition the reference to "the licence application" includes a reference to:

- a) the applications for any licences (including former pollution control approvals) which this licence replaces under the Protection of the Environment Operations (Savings and Transitional) Regulation 1998; and
- b) the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence.

2 Discharges to Air and Water and Applications to Land

P1 Location of monitoring/discharge points and areas

- P1.1 The following points referred to in the table below are identified in this licence for the purposes of monitoring and/or the setting of limits for the emission of pollutants to the air from the point.

Air

EPA identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
1		Discharge to air	Odour control system vent after passing through scrubbers at liquid treatment plant

- P1.2 The following utilisation areas referred to in the table below are identified in this licence for the purposes of the monitoring and/or the setting of limits for any application of solids or liquids to the utilisation area.

- P1.3 The following points referred to in the table are identified in this licence for the purposes of the monitoring and/or the setting of limits for discharges of pollutants to water from the point.

Water and land

EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
2	Wet weather discharge	Wet weather discharge	Discharge point on western boundary, marked "A" on Stormwater Construction Drawing dated 18/08/2003 provided to the EPA with licence variation request dated 30/5/2006

Environment Protection Licence

Licence - 10251

3 Limit Conditions

L1 Pollution of waters

Note: Retained first flush stormwater may be used for dust suppression purposes on the premises.

Note: Ten millimetres of rainfall over the premises is equivalent to 65,000 litres.

- L1.1 Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the Protection of the Environment Operations Act 1997.
- L1.2 All the runoff from the first ten millimetres of any rainfall event over the premises must be retained within the premises and not discharged to waters, except in accordance with the conditions of this licence.
- L1.3 Discharge of stormwater to waters from Point 2 is permitted when the discharge occurs solely as a result of any rainfall event over the premises that results from more than ten millimetres of rainfall.
- L1.4 The first flush system's capacity to contain the first ten millimetres of any rainfall event over the premises must be re-established within 24 hours of the last rain event.

L2 Waste

- L2.1 The licensee must not cause, permit or allow any waste to be received at the premises, except the wastes expressly referred to in the column titled "Waste" and meeting the definition, if any, in the column titled "Description" in the table below.

Any waste received at the premises must only be used for the activities referred to in relation to that waste in the column titled "Activity" in the table below.

Any waste received at the premises is subject to those limits or conditions, if any, referred to in relation to that waste contained in the column titled "Other Limits" in the table below.

This condition does not limit any other conditions in this licence.

Code	Waste	Description	Activity	Other Limits
N220	Asbestos			
G110	Organic solvents excluding halogenated solvents			
A100	Waste from surface treatment of metals & plastics			
B100	Acidic solutions or acids in solid form			
C100	Basic solutions or bases in solid form			
F100	Waste ink, dye, pigment, paint, lacquer & varnish			
K190	Wool scouring wastes			
N205	Residues from industrial			

Environment Protection Licence



Licence - 10251

	waste treatment/disposal operations	
N120	Soils contaminated with a substance or waste referred to in Parts 1 or 2 of Schedule 1 of the Protection of the Environment Operations (Waste) Regulation 2014	
N140	Fire debris and fire washwaters	
NA	General or Specific exempted waste	NA
NA	Waste	NA
F110	Waste resin, latex, plasticiser, glue & adhesive	
NA	Waste mineral oils unfit for their original intended use	
J120	Waste oil/hydrocarbons mixtures/emulsions in water	
NA	Animal waste	
K110	Grease trap waste	
K140	Tannery waste incl leather dust/ash/sludge/flour	

Note: This limit is based on the plant's design being sized to receive the available waste volumes projected in the Environmental Impact Statement which accompanied the licence application.

- L2.2 The quantity of hazardous, restricted solid and liquid waste stored and/or processed at the premises must not exceed 35,545 tonnes per reporting period.
- L2.3 The quantity of general solid waste (non-putrescible) received for storage and processing at the premises must not exceed 26,000 tonnes per annum.
- L2.4 General solid waste (non-putrescible) in condition L5.3 is restricted to building and demolition waste. Building and demolition waste has the same meaning as in Division 2 Schedule 1 of the Protection of the Environment Operations Act 1997.

L3 Noise limits

- L3.1 Noise from the premises must not exceed:
- an LAeq (15 minute) noise emission criterion of 70 dB(A) (7am to 6pm) Monday to Sunday;
 - an LAeq (15 minute) noise emission criterion of 65 dB(A) during the evening (6pm to 10pm) Monday to Sunday; and

Environment Protection Licence

Licence - 10251

c) at all other times an LAeq (15 minute) noise criterion of 65 dB(A)

except as expressly provided by this licence.

L3.2 Noise from the premises is to be measured at the nearest affected residence to determine compliance with this condition.

L4 Potentially offensive odour

L4.1 The licensee must not cause or permit the emission of offensive odour beyond the boundary of the premises.

Note: Section 129 of the Protection of the Environment Operations Act 1997, provides that the licensee must not cause or permit the emission of any offensive odour from the premises but provides a defence if 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 a licence directed at minimising odour.

L4.2 No condition of this licence identifies a potentially offensive odour for the purposes of Section 129 of the Protection of the Environment Operations Act 1997.

4 Operating Conditions

O1 Activities must be carried out in a competent manner

O1.1 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.

O1.2 The facility must be adequately staffed with suitably qualified and experienced persons at all times when wastes are received and/or when the processing plant is operated.

O2 Maintenance of plant and equipment

O2.1 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.

O3 Dust

O3.1 Trucks entering and leaving the premises that are carrying loads must be covered at all times, except during loading and unloading.

Environment Protection Licence



Licence - 10251

- O3.2 The premises must be maintained in a condition which minimises or prevents the emission of dust from the premises.
- O3.3 All operations and activities occurring at the premises must be carried out in a manner that will minimise the emission of dust from the premises.

O4 Emergency response

- O4.1 The licensee must maintain, and implement as necessary, a current emergency response plan for the premises. The licensee must keep the emergency response plan on the premises at all times. The emergency response plan must document systems and procedures to deal with all types of incidents (e.g. spills, explosions or fire) that may occur at the premises or that may be associated with activities that occur at the premises and which are likely to cause harm to the environment. If a current emergency response plan does not exist at the date on which this condition is attached to the licence, the licensee must develop an emergency response plan within three months of that date.

O5 Processes and management

- O5.1 The licensee must ensure that any waste received and/or generated at the premises is assessed and classified in accordance with the DECC Waste Classification Guidelines as in force from time to time.
- O5.2 The licensee must ensure that waste identified for recycling is stored separately from other waste.
- O5.3 The licensee must establish and maintain at the premises a laboratory capable of carrying out screening of incoming liquid wastes and to monitor all stages of processing of those wastes.
- O5.4 At all times when wastes are received and when the processing plant is operated, the licensee must have suitably qualified and experienced personnel on site who are trained and experienced to perform in the on site laboratory all the necessary on site monitoring and/or testing of incoming wastes, waste treatment in progress, treated wastes and process plant residues.

O6 Waste management

Note: The analyses conducted for “load pre-acceptance monitoring” may be carried out by a laboratory not having NATA accreditation, in which case a program must be developed and maintained to ensure that capabilities of the non-NATA laboratory are adequate to provide the required level of control of incoming waste (see O12).

Note: The laboratory(ies) used for the “load pre-acceptance monitoring” (O11.3.1) and “original waste specification” (O11.2.1 & O11.2.2) will need capabilities to test for:

- a) pH
- b) conductivity
- c) colour
- d) alkalinity as CaCO₃
- e) oil and grease

Environment Protection Licence



Licence - 10251

- f) chromium
- g) copper
- h) lead
- i) zinc

as well as any potential contaminants which may present in significant concentrations in the incoming waste. In addition, capabilities to detect organochlorine and organophosphate pesticides will be required if wastes handled have the potential to contain these compounds.

Note: Analysing for all inorganic and organic contaminants set out in DECC Waste Classification Guidelines will normally be needed to initially characterise a waste.

Note: Initial characterisation testing is not required for waste that originates from the same generator, and has already been analysed for characterisation and the "original waste specification" has been documented and retained by the licensee.

O6.1 All above ground tanks containing material that is likely to cause environmental harm must be bunded or have an alternative spill containment system in place.

O6.2 The licensee must ensure that suitable measures (e.g. high/low alarms, control valves with interlock control, one way valves) are installed on all tanks, ponds or clarifiers and associated pipes and hoses to prevent the spillage of waste.

O6.3 All Scheduled Chemical Wastes received at the premises must be separated from all other wastes and must be handled in accordance with the Scheduled Chemical Wastes Chemical Control Order 1994.

O6.4 Where the non-liquid waste is treated it must achieve one of the following:

- a) reduce the concentration of contaminant(s) in the waste by means other than dilution; and/or
- b) immobilise contaminant(s) in the waste in accordance with approval(s) of immobilisation issued by the EPA; and/or
- c) satisfy specific standard/criteria approved by the EPA;

to enable the treated material to be reused, recycled or to be lawfully disposed of.

O6.5 Prior to undertaking to handle any liquid waste at the premises, the licensee must ensure that the wastes are not contaminated in such a way that their processing will give rise to the emission of air toxics

O6.6 The licensee must undertake an initial characterisation of any liquid waste to ascertain the classification of the waste and ensure that it is a waste which it is licensed to receive at the premises and that the processing plant is capable of adequately treating the waste. This characterisation must be documented and retained as the "original waste specification" by the licensee.

O6.7 The analyses required by condition O11.2.1 for the "original waste specification" must be carried out by a laboratory with NATA accreditation for those analyses within 24 hours of receiving the liquid waste at the premises. Liquid waste can only be received at the premises only after the liquid waste has been analysed by the on-site laboratory and the waste is shown to be suitable for treatment at the premises and that the waste can be legally accepted by the licensee. The liquid waste cannot be processed or treated at the premises until the "original waste specification" has been completed and the waste is

Environment Protection Licence



Licence - 10251

confirmed to be suitable for treatment at the premises.

- O6.8 The requirement specified in O11.2.2 that liquid waste can only be received at the premises only after the liquid waste has been analysed by the on-site laboratory and the waste is shown to be suitable for treatment at the premises and that the waste can be legally accepted by the licensee is exempted 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, notification is to be provided to the EPA as soon as possible. After receipt of liquid wastes at the direction of emergency services, the licensee must undertake monitoring as required by O11.2.1 to classify the liquid waste to determine that it is suitable for treatment at the premises and that the waste can be legally accepted by the licensee prior to its treatment.
- O6.9 Prior to accepting each consignment of liquid waste at the premises, the licensee must carry out monitoring ("load pre-acceptance monitoring") sufficient to provide confidence that the characteristics of the waste are in accordance with the "original waste specification", that the waste is suitable for treatment at the premises and that the waste can be legally accepted by the licensee. The "load pre-acceptance monitoring" must be documented and retained by the licensee.
- O6.10 The licensee must develop and maintain a QA/QC program that:
- enables the licensee to ensure that unacceptable liquid wastes, such as radioactive wastes, highly toxic wastes, clinical wastes, cytotoxic wastes, sharps wastes, sewerage wastes or wastes containing persistent organic chemicals, explosive or highly reactive materials, are readily detected, identified and rejected by plant operators at the waste reception stage.
 - provides details of the means to be employed to ensure that all of each load of waste delivered to the premises is consistent with the samples taken for load pre-acceptance monitoring.
 - includes assessment and classification of all waste generated by the plant in accordance with DECC Waste Classification Guidelines.
 - includes a program of comparative testing of replicate samples by all laboratories which the licensee uses (both the on-site laboratory and its contracted laboratories) sufficient to demonstrate at a 95% level of confidence that there is no significant difference between the results from the different laboratories.
 - includes a requirement for the implementation of corrective action whenever the results of inter-laboratory comparison testing shows that the probability of there being a significant differences does not meet a 95% level of confidence.
- O6.11 The licensee must provide to the EPA in the annual return for the premises a summary of the results of its inter-laboratory testing program, including details of the corrective actions taken for all comparisons falling outside of the control limits of the program.
- O6.12 Before unloading to the storage vessels any acid or alkali waste waters that meet the criteria of Dangerous Goods Class 8, Corrosive Materials under the Australian Dangerous Goods Code, the physical and chemical properties of the waste water must be verified by analytical testing at the on site laboratory.
- O6.13 Before commencing treatment of any acid or alkali waste water that meets the criteria of Dangerous Goods Class 8, Corrosive Materials under the Australian Dangerous Goods Code, representative samples of the waste water must be collected from the storage vessels and treated at the on site

Environment Protection Licence



Licence - 10251

laboratory.

O6.14 When undertaking waste immobilisation the licensee must mix the untreated waste and reagents using the mechanical mixer as stipulated by the Immobilisation Approval to achieve a homogeneous mix efficiently.

O7 Other operating conditions

O7.1 The tailgates of all trucks leaving the premises must be securely fixed prior to loading or immediately after unloading to prevent loss of materials.

O7.2 All vehicles leaving the contaminated area must pass through the wheel washer.

5 Monitoring and Recording Conditions

M1 Monitoring records

M1.1 The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.

M1.2 All records required to be kept by this licence must be:

- a) in a legible form, or in a form that can readily be reduced to a legible form;
- b) kept for at least 4 years after the monitoring or event to which they relate took place; and
- c) produced in a legible form to any authorised officer of the EPA who asks to see them.

M1.3 The following records must be kept in respect of any samples required to be collected for the purposes of this licence:

- a) the date(s) on which the sample was taken;
- b) the time(s) at which the sample was collected;
- c) the point at which the sample was taken; and
- d) the name of the person who collected the sample.

M2 Requirement to monitor concentration of pollutants discharged

M2.1 For each monitoring/discharge point or utilisation area specified below (by a point number), the licensee must monitor (by sampling and obtaining results by analysis) the concentration of each pollutant specified in Column 1. The licensee must use the sampling method, units of measure, and sample at the frequency, specified opposite in the other columns:

M2.2 Water and/ or Land Monitoring Requirements

POINT 2

Environment Protection Licence



Licence - 10251

Pollutant	Units of measure	Frequency	Sampling Method
Arsenic	milligrams per litre	Special Frequency 1	Grab sample
Biochemical oxygen demand	milligrams per litre	Special Frequency 1	Grab sample
Cadmium	milligrams per litre	Special Frequency 1	Grab sample
Chromium (hexavalent)	milligrams per litre	Special Frequency 1	Grab sample
Lead	milligrams per litre	Special Frequency 1	Grab sample
Oil and Grease	milligrams per litre	Special Frequency 1	Grab sample
pH	milligrams per litre	Special Frequency 1	Grab sample
Total suspended solids	milligrams per litre	Special Frequency 1	Grab sample
Zinc	milligrams per litre	Special Frequency 1	Grab sample

Note: "Special Frequency 1" means once every quarter during the first hour of a discharge from the first flush system.

M3 Testing methods - concentration limits

Note: The Protection of the Environment Operations Act (Clean Air) Regulation 2002 requires testing for certain purposes to be conducted in accordance with test methods contained in the publication "Approved Methods for the Sampling and Analysis of Air Pollutants in NSW".

M3.1 Subject to any express provision to the contrary in this licence, monitoring for the concentration of a pollutant discharged to waters or applied to a utilisation area must be done in accordance with the Approved Methods Publication unless another method has been approved by the EPA in writing before any tests are conducted.

M3.2 Monitoring for the concentration of a pollutant emitted to the air required to be conducted by this licence must be done in accordance with:

- any methodology which is required by or under the Act to be used for the testing of the concentration of the pollutant; or
- if no such requirement is imposed by or under the Act, any methodology which a condition of this licence requires to be used for that testing; or
- if no such requirement is imposed by or under the Act or by a condition of this licence, any methodology approved in writing by the EPA for the purposes of that testing prior to the testing taking place.

M4 Weather monitoring

M4.1

Environment Protection Licence



Licence - 10251

M5 Recording of pollution complaints

- M5.1 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.
- M5.2 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.
- M5.3 The record of a complaint must be kept for at least 4 years after the complaint was made.
- M5.4 The record must be produced to any authorised officer of the EPA who asks to see them.

M6 Telephone complaints line

- M6.1 The licensee must operate during its operating hours a 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.
- M6.2 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.
- M6.3 The preceding two conditions do not apply until 3 months after: the date of the issue of this licence.

6 Reporting Conditions

R1 Annual return documents

- R1.1 The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:
1. a Statement of Compliance,
 2. a Monitoring and Complaints Summary,
 3. a Statement of Compliance - Licence Conditions,
 4. a Statement of Compliance - Load based Fee,
 5. a Statement of Compliance - Requirement to Prepare Pollution Incident Response Management Plan,
 6. a Statement of Compliance - Requirement to Publish Pollution Monitoring Data; and
 7. a Statement of Compliance - Environmental Management Systems and Practices.

At the end of each reporting period, the EPA will provide to the licensee a copy of the form that must be

Environment Protection Licence



Licence - 10251

completed and returned to the EPA.

- R1.2 An Annual Return must be prepared in respect of each reporting period, except as provided below.
- R1.3 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.
- R1.4 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.
- R1.5 The Annual Return for the reporting period must be supplied to the EPA via eConnect *EPA* or 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').
- R1.6 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.
- R1.7 Within the Annual Return, the Statements 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.

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.

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

R2 Notification of environmental harm

- R2.1 Notifications must be made by telephoning the Environment Line service on 131 555.
- R2.2 The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred.

Note: The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.

Environment Protection Licence



Licence - 10251

R3 Written report

- R3.1 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.
- R3.2 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.
- R3.3 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;
 - 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; and
 - g) any other relevant matters.
- R3.4 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.

7 General Conditions

G1 Copy of licence kept at the premises or plant

- G1.1 A copy of this licence must be kept at the premises to which the licence applies.
- G1.2 The licence must be produced to any authorised officer of the EPA who asks to see it.
- G1.3 The licence must be available for inspection by any employee or agent of the licensee working at the premises.

Environment Protection Licence

Licence - 10251

Dictionary

General Dictionary

3DGM [in relation to a concentration limit]	Means the three day geometric mean, which is calculated by multiplying the results of the analysis of three samples collected on consecutive days and then taking the cubed root of that amount. Where one or more of the samples is zero or below the detection limit for the analysis, then 1 or the detection limit respectively should be used in place of those samples
Act	Means the Protection of the Environment Operations Act 1997
activity	Means a scheduled or non-scheduled activity within the meaning of the Protection of the Environment Operations Act 1997
actual load	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
AM	Together with a number, means an ambient air monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
AMG	Australian Map Grid
anniversary date	The anniversary date is the anniversary each year of the date of issue of the licence. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
annual return	Is defined in R1.1
Approved Methods Publication	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
assessable pollutants	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
BOD	Means biochemical oxygen demand
CEM	Together with a number, means a continuous emission monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
COD	Means chemical oxygen demand
composite sample	Unless otherwise specifically approved in writing by the EPA, a sample consisting of 24 individual samples collected at hourly intervals and each having an equivalent volume.
cond.	Means conductivity
environment	Has the same meaning as in the Protection of the Environment Operations Act 1997
environment protection legislation	Has the same meaning as in the Protection of the Environment Administration Act 1991
EPA	Means Environment Protection Authority of New South Wales.
fee-based activity classification	Means the numbered short descriptions in Schedule 1 of the Protection of the Environment Operations (General) Regulation 2009.
general solid waste (non-putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997

Environment Protection Licence

Licence - 10251

flow weighted composite sample	Means a sample whose composites are sized in proportion to the flow at each composites time of collection.
general solid waste (putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
grab sample	Means a single sample taken at a point at a single time
hazardous waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
licensee	Means the licence holder described at the front of this licence
load calculation protocol	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
local authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
material harm	Has the same meaning as in section 147 Protection of the Environment Operations Act 1997
MBAS	Means methylene blue active substances
Minister	Means the Minister administering the Protection of the Environment Operations Act 1997
mobile plant	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
motor vehicle	Has the same meaning as in the Protection of the Environment Operations Act 1997
O&G	Means oil and grease
percentile [in relation to a concentration limit of a sample]	Means that percentage [eg.50%] of the number of samples taken that must meet the concentration limit specified in the licence for that pollutant over a specified period of time. In this licence, the specified period of time is the Reporting Period unless otherwise stated in this licence.
plant	Includes all plant within the meaning of the Protection of the Environment Operations Act 1997 as well as motor vehicles.
pollution of waters [or water pollution]	Has the same meaning as in the Protection of the Environment Operations Act 1997
premises	Means the premises described in condition A2.1
public authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
regional office	Means the relevant EPA office referred to in the Contacting the EPA document accompanying this licence
reporting period	For the purposes of this licence, the reporting period means the period of 12 months after the issue of the licence, and each subsequent period of 12 months. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
restricted solid waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
scheduled activity	Means an activity listed in Schedule 1 of the Protection of the Environment Operations Act 1997
special waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
TM	Together with a number, means a test method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .

Environment Protection Licence



Licence - 10251

TSP	Means total suspended particles
TSS	Means total suspended solids
Type 1 substance	Means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or more of those elements
Type 2 substance	Means the elements beryllium, chromium, cobalt, manganese, nickel, selenium, tin or vanadium or any compound containing one or more of those elements
utilisation area	Means any area shown as a utilisation area on a map submitted with the application for this licence
waste	Has the same meaning as in the Protection of the Environment Operations Act 1997
waste type	Means liquid, restricted solid waste, general solid waste (putrescible), general solid waste (non - putrescible), special waste or hazardous waste

Mr Trevor Jones

Environment Protection Authority

(By Delegation)

Date of this edition: 17-December-1999

Environment Protection Licence



Licence - 10251

End Notes

- 1 Licence transferred through application 140046, approved on 18-Oct-2000, which came into effect on 24-Jul-2000.
- 2 Licence varied by notice 1003165, issued on 03-Jan-2001, which came into effect on 28-Jan-2001.
- 3 Licence transferred through application 141009, approved on 04-Feb-2002, which came into effect on 30-Jan-2002.
- 4 Licence varied by notice 1021209, issued on 10-Oct-2002, which came into effect on 04-Nov-2002.
- 5 Licence varied by notice 1039775, issued on 09-Sep-2004, which came into effect on 04-Oct-2004.
- 6 Licence varied by change to DEC Region allocation, issued on 17-Mar-2006, which came into effect on 17-Mar-2006.
- 7 Licence varied by notice 1057963, issued on 07-Apr-2006, which came into effect on 12-Apr-2006.
- 8 Licence varied by notice 1061071, issued on 07-Jun-2006, which came into effect on 07-Jun-2006.
- 9 Licence varied by notice 1061664, issued on 19-Jun-2006, which came into effect on 19-Jun-2006.
- 10 Licence varied by change to EPA Region, issued on 07-Aug-2006, which came into effect on 07-Aug-2006.
- 11 Licence varied by notice 1081255, issued on 17-Jan-2008, which came into effect on 17-Jan-2008.
- 12 Licence varied by notice 1093333, issued on 11-Nov-2008, which came into effect on 11-Nov-2008.
- 13 Condition A1.3 Not applicable varied by notice issued on <issue date> which came into effect on <effective date>
- 14 Licence transferred through application 146253, approved on 23-Jul-2010, which came into effect on 23-Jul-2010.
- 15 Licence fee period changed by notice 1117731 approved on .
- 16 Licence varied by change to DECCW region, issued on 17-Aug-2010, which came into effect on 17-Aug-2010.
- 17 Licence varied by notice 1118849, issued on 06-Sep-2010, which came into effect on 06-Sep-2010.
- 18 Licence varied by notice 1504422 issued on 15-Feb-2012

Environment Protection Licence

Licence - 10251



19 Licence format updated on 03-Jun-2019

Environment Protection Licence



Licence - 10398

Licence Details

Number:	10398
Anniversary Date:	12-September

Licensee

HI-QUALITY WASTE MANAGEMENT PTY LTD

PO BOX 42

KEMPS CREEK NSW 2171

Premises

MINDA LANDFILL

OALLEN FORD ROAD

WINDELLAMA NSW 2580

Scheduled Activity

Waste Disposal (application to land)

Fee Based Activity

Scale

Waste disposal by application to land

Any annual capacity

Region

Waste & Resources - Waste Management

59-61 Goulburn Street

SYDNEY NSW 2000

Phone: (02) 9995 5000

Fax: (02) 9995 5999

PO Box A290 SYDNEY SOUTH

NSW 1232

Environment Protection Licence

Licence - 10398



INFORMATION ABOUT THIS LICENCE	4
Dictionary	4
Responsibilities of licensee	4
Variation of licence conditions	4
Duration of licence	4
Licence review	4
Fees and annual return to be sent to the EPA	4
Transfer of licence	5
Public register and access to monitoring data	5
1 ADMINISTRATIVE CONDITIONS	6
A1 What the licence authorises and regulates	6
A2 Premises or plant to which this licence applies	6
A3 Other activities	6
A4 Information supplied to the EPA	6
2 DISCHARGES TO AIR AND WATER AND APPLICATIONS TO LAND	7
P1 Location of monitoring/discharge points and areas	7
3 LIMIT CONDITIONS	10
L1 Pollution of waters	10
L2 Waste	10
L3 Noise limits	11
L4 Hours of operation	12
L5 Potentially offensive odour	12
4 OPERATING CONDITIONS	13
O1 Activities must be carried out in a competent manner	13
O2 Maintenance of plant and equipment	13
O3 Dust	13
O4 Emergency response	13
O5 Processes and management	13
O6 Waste management	14
O7 Other operating conditions	15
5 MONITORING AND RECORDING CONDITIONS	16
M1 Monitoring records	16
M2 Requirement to monitor concentration of pollutants discharged	16
M3 Testing methods - concentration limits	19

Environment Protection Licence



Licence - 10398

M4	Weather monitoring	20
M5	Recording of pollution complaints	20
M6	Telephone complaints line	20
M7	Other monitoring and recording conditions	20
6	REPORTING CONDITIONS	21
R1	Annual return documents	21
R2	Notification of environmental harm	22
R3	Written report	22
R4	Other reporting conditions	23
7	GENERAL CONDITIONS	23
G1	Copy of licence kept at the premises or plant	23
8	POLLUTION STUDIES AND REDUCTION PROGRAMS	23
U1	Leachate Management Works	23
9	SPECIAL CONDITIONS	24
E1	Financial assurance	24
DICTIONARY	.....	25
	General Dictionary	25

Environment Protection Licence

Licence - 10398



Information about this licence

Dictionary

A definition of terms used in the licence can be found in the dictionary at the end of this licence.

Responsibilities of licensee

Separate to the requirements of this licence, general obligations of licensees are set out in the Protection of the Environment Operations Act 1997 ("the Act") and the Regulations made under the Act. These include obligations to:

- ensure persons associated with you comply with this licence, as set out in section 64 of the Act;
- control the pollution of waters and the pollution of air (see for example sections 120 - 132 of the Act);
- report incidents causing or threatening material environmental harm to the environment, as set out in Part 5.7 of the Act.

Variation of licence conditions

The licence holder can apply to vary the conditions of this licence. An application form for this purpose is available from the EPA.

The EPA may also vary the conditions of the licence at any time by written notice without an application being made.

Where a licence has been granted in relation to development which was assessed under the Environmental Planning and Assessment Act 1979 in accordance with the procedures applying to integrated development, the EPA may not impose conditions which are inconsistent with the development consent conditions until the licence is first reviewed under Part 3.6 of the Act.

Duration of licence

This licence will remain in force until the licence is surrendered by the licence holder or until it is suspended or revoked by the EPA or the Minister. A licence may only be surrendered with the written approval of the EPA.

Licence review

The Act requires that the EPA review your licence at least every 5 years after the issue of the licence, as set out in Part 3.6 and Schedule 5 of the Act. You will receive advance notice of the licence review.

Fees and annual return to be sent to the EPA

For each licence fee period you must pay:

- an administrative fee; and
- a load-based fee (if applicable).

Environment Protection Licence



Licence - 10398

The EPA publication “A Guide to Licensing” contains information about how to calculate your licence fees. The licence requires that an Annual Return, comprising a Statement of Compliance and a summary of any monitoring required by the licence (including the recording of complaints), be submitted to the EPA. The Annual Return must be submitted within 60 days after the end of each reporting period. See condition R1 regarding the Annual Return reporting requirements.

Usually the licence fee period is the same as the reporting period.

Transfer of licence

The licence holder can apply to transfer the licence to another person. An application form for this purpose is available from the EPA.

Public register and access to monitoring data

Part 9.5 of the Act requires the EPA to keep a public register of details and decisions of the EPA in relation to, for example:

- licence applications;
- licence conditions and variations;
- statements of compliance;
- load based licensing information; and
- load reduction agreements.

Under s320 of the Act application can be made to the EPA for access to monitoring data which has been submitted to the EPA by licensees.

This licence is issued to:

HI-QUALITY WASTE MANAGEMENT PTY LTD
--

PO BOX 42

KEMPS CREEK NSW 2171

subject to the conditions which follow.

Environment Protection Licence

Licence - 10398



1 Administrative Conditions

A1 What the licence authorises and regulates

A1.1 This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, fee-based activity classification and the scale of the operation.

Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition.

Scheduled Activity	Fee Based Activity	Scale
Waste Disposal (application to land)	Waste disposal by application to land	Any annual capacity

A2 Premises or plant to which this licence applies

A2.1 The licence applies to the following premises:

Premises Details
MINDA LANDFILL
OALLEN FORD ROAD
WINDELLAMA
NSW 2580
LOT 2 DP 811821
MINDA AT LOT 2 OF DP 811821 IN THE PARISH OF CULLULLA AT 2622 OALLEN FORD ROAD, WINDELLAMA

A3 Other activities

A3.1 This licence applies to all other activities carried on at the premises, including:

Ancillary Activity
Crushing, Grinding or Separating Works
Extractive Industries
Waste Facilities - waste storage, transfer separating or processing

A4 Information supplied to the EPA

A4.1 Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence.

In this condition the reference to "the licence application" includes a reference to:

Environment Protection Licence

Licence - 10398



- a) the applications for any licences (including former pollution control approvals) which this licence replaces under the Protection of the Environment Operations (Savings and Transitional) Regulation 1998; and
- b) the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence.

A4.2 Information supporting the licence application also includes:

- a) Property Minda via Windellama Mulwaree LGA EIS (Volumes 1 & 2), Hirst Consulting Services Pty Ltd, December 1998, and the additional information supplied to the EPA by facsimile dated 24 March 2000;
- b) Report on Operations Commencement Protocol Minda Quarry Landfill, prepared for Hallinans Haulage Pty Ltd by Douglas Partners – Project 40202 – October 2004;
- c) Report on Operations Commencement Protocol Minda Quarry Landfill, prepared for Hallinans Haulage Pty Ltd by Douglas Partners – Project 40202 – April 2005, including updated Drawings E6 and L1 emailed to the DEC from Douglas Partners on 30 May 2005;
- d) Email from Douglas Partners to the DEC dated 30 May 2005 which included a diagram titled “Hallinans Minda Quarry Landfill Project Site Boundary and Surface Water Flows – 27/5/05”, Drawing No. 10246/5.
- e) Report on Leachate Water Balance Study, Revision 11, prepared by Douglas Partners and dated 15 April 2013.
- f) Stormwater Management Plan - Project 11 151 - November 2011, prepared by Site Plus and revised 28 March 2012.

A4.3 The following documents are not to be taken as part of the documentation in A4.1, other than those parts specifically referenced in this licence:

- a) Landfill Environmental Management Plan, Revision 4, prepared by Douglas Partners and dated 20 June 2013.
- b) Preliminary Landfill Closure Plan, Revision 5, prepared by Douglas Partners and dated 27 May 2013.
- c) Environmental Management Manual, Version 4, dated June 2013.
- d) Operations Plan - Clay Extraction and Landfill Activities - dated July 2013.

2 Discharges to Air and Water and Applications to Land

P1 Location of monitoring/discharge points and areas

- P1.1 The following points referred to in the table below are identified in this licence for the purposes of monitoring and/or the setting of limits for the emission of pollutants to the air from the point.

Air

EPA identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
15	Dust Deposition Monitoring		Dust Deposition Gauge labelled as Dust 1 on Map No. 10246/5 in the Report on Completion of Scheduled Development Works, dated September 2006. E-763690 N-6114019

Environment Protection Licence

Licence - 10398



16	Dust Deposition Monitoring	Dust Deposition Gauge labelled as Dust 2 on Map No. 10246/5 in the Report on Completion of Scheduled Development Works, dated September 2006. E-763536 N-6113663
17	Dust Deposition Monitoring	Dust Deposition Gauge labelled as Dust 3 on Map No. 10246/5 in the Report on Completion of Scheduled Development Works, dated September 2006. E-763924 N-6113636
18	Dust Deposition Monitoring	Dust Deposition Gauge labelled as Dust 4 on Map No. 10246/5 in the Report on Completion of Scheduled Development Works, dated September 2006. E-764364 N-6114144
19	Landfill Gas Monitoring	Locations on the surface on the landfilled waste (30m x 30m grid). E-763859 N-6113789

P1.2 The following utilisation areas referred to in the table below are identified in this licence for the purposes of the monitoring and/or the setting of limits for any application of solids or liquids to the utilisation area.

P1.3 The following points referred to in the table are identified in this licence for the purposes of the monitoring and/or the setting of limits for discharges of pollutants to water from the point.

Water and land

EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
1	Ambient Water Quality Monitoring		Dam C labelled as SW05 on Map No. 10246/5 contained in the Report on Completion of Scheduled Development Works dated September 2006. E-763720 N-6113570
2	Ambient Water Quality Monitoring		Dam A labelled as SW03 on Map No. 10246/5 contained in the Report on Completion of Scheduled Development Works, dated September 2006. E-764239 N-6113933
3	Ambient Water Quality Monitoring		Dam Z labelled as SW01 on Map No. 10246/5 contained in the Report on Completion of Scheduled Development Works, dated September 2006. E-763859 N-6113789
4	Ambient Water Quality Monitoring		Nadgigomar Creek, upstream of premises labelled as SW02 on Map No. 10246/5 contained in the Report on Completion of Scheduled Development Works, dated September 2006. E-763753 N-6113494

Environment Protection Licence

Licence - 10398



5	Ambient Water Quality Monitoring	Nadgigomar Creek, downstream of premises labelled as SW04 on Map No. 10246/5 contained in the Report on Completion of Scheduled Development Work, dated September 2006. E-764331 N-6113998
6	Leachate Monitoring	Leachate Sump in Cell 1 as shown on Map No. 10246/5 contained in the Report of Completion of Scheduled Development Work, dated September 2006. E-763859 N-6113789
7	Groundwater Quality Monitoring	Groundwater bore labelled as GW01 on Map No. 10246/5 in the Report on Completion of Scheduled Development Works, dated September 2006. E-763830 N-6113901
8	Groundwater Quality Monitoring	Groundwater bore labelled as GW02 on Map No. 10246/5 in the Report on Completion of Scheduled Development Works, dated September 2006. E-763852 N-6113725
9	Groundwater Quality Monitoring	Groundwater bore labelled as GW03 on Map No. 10246/5 contained in the Report on Completion of Scheduled Development Works, dated September 2006. E-763667 N-6113986
10	Groundwater Quality Monitoring	Groundwater bore labelled as GW04 on Map No. 10246/5 in the Report of Completion of Scheduled Development Works, dated September 2006. E-763511 N-6113680
11	Groundwater Quality Monitoring	Groundwater bore labelled as GW05 on Map No. 10246/5 in the Report on Completion of Scheduled Development Works, dated September 2006. E-763757 N-6113593
12	Groundwater Quality Monitoring	Groundwater bore labelled as GW06 on Map No. 10246/5 in the Report on Completion of Scheduled Development Works, dated September 2006. E-764263 N-6113821

Environment Protection Licence

Licence - 10398



13	Groundwater Quality Monitoring	Groundwater bore labelled as GW07 on Map No. 10246/5 in the Report on Completion of Scheduled Development Works, dated September 2006. E-764113 N-6114001
14	Groundwater Quality Monitoring	Groundwater bore labelled as GW08 on Map No. 10246/5 in the Report on Completion of Scheduled Development Works, dated September 2006. E-763857 N-6114196

3 Limit Conditions

L1 Pollution of waters

- L1.1 Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the Protection of the Environment Operations Act 1997.
- L1.2 There must be no discharge of stormwater from rehabilitation areas to waters, unless more than 104mm of rain falls on the premises within a 24 hour time period (1:10 year, 24 hour duration, average recurrence interval).
- L1.3 There must be no discharge of stormwater from landfill cells to waters, unless more than 155mm of rain falls on the premises within a 24 hour time period (1 in 100 year, 24 hour duration, average recurrence interval).
- L1.4 There must be no discharge of leachate to waters.
- L1.5 The licensee must ensure that the level of leachate on the base of the leachate barrier system in any of the waste disposal cells does not rise above 300mm, unless the leachate storage pond(s) have a freeboard of less than or equal to 0.75m.
- L1.6 All landfill cells must be constructed and operated to ensure that the groundwater gradient is in the direction of the landfill cells.

L2 Waste

- L2.1 The licensee must not cause, permit or allow any waste to be received at the premises, except the wastes expressly referred to in the column titled "Waste" and meeting the definition, if any, in the column titled "Description" in the table below.
- Any waste received at the premises must only be used for the activities referred to in relation to that waste in the column titled "Activity" in the table below.
- Any waste received at the premises is subject to those limits or conditions, if any, referred to in relation to that waste contained in the column titled "Other Limits" in the table below.
- This condition does not limit any other conditions in this licence.

Environment Protection Licence

Licence - 10398



Code	Waste	Description	Activity	Other Limits
NA	General solid waste (non-putrescible)		Waste disposal (application to land)	No more than 60,000 tonnes of waste, in total, may be received per annum.
NA	Asbestos waste		Waste disposal (application to land)	No more than 60,000 tonnes of waste, in total, may be received per annum.
NA	Waste tyres		Waste disposal (application to land)	No more than 60,000 tonnes of waste, in total, may be received per annum.
NA	Waste	Any waste received onsite that is below licensing thresholds in Schedule 1 of the POEO Act, as in force from time to time.		N/A

L2.2 The licensee must not cause, permit or allow any waste to be received at the premises, except the wastes expressly referred to in the column titled "Waste" and meeting the definition, if any, in the column titled "Description" in the table below.

Any waste received at the premises must only be used for the activities referred to in relation to that waste in the column titled "Activity" in the table below.

Any waste received at the premises is subject to those limits or conditions, if any, referred to in relation to that waste contained in the column titled "Other Limits" in the table below.

Condition L2.1 does not limit any other conditions in this licence.

L2.3 The total volume of waste received at the premises over the life of the operation must not exceed 1,947,003 cubic metres.

L2.4 The licensee must not dispose of any tyres on the premises which;

- have a diameter of less than 1.2 metres; and
- are delivered at the premises in a load containing more than 5 whole tyres; and
- became waste in the Sydney Metropolitan Area;

unless the tyres are shredded into pieces which measure no more than 250mm in any direction or the walls in the tyres are removed prior to disposal.

L2.5 Unless the EPA amends this licence to expressly permit it, the licensee must only dispose of waste at the premises in Cell 1 and Cell 2Aa, as depicted in the document titled "Revised Cell 2A Layout, Minda Landfill" prepared by Douglas Partners and dated 19 June 2009 (EPA reference DOC15/294013).

L3 Noise limits

L3.1 The Licensee must ensure that the noise emissions from activities associated with the extraction

Environment Protection Licence

Licence - 10398



operation and landfilling do not exceed 35 dBA ((LA10 (15 minute)) at the noise monitoring sites nominated in Figure E3 prepared by Renzo Tonin and Associates Pty Ltd in Environmental Impact Statement Volume 1 Main Report titled Property "Minda" via Windellama, Mulwaree LGA Proposed Reclamation of Clay Extraction Area by Landfill, Processing of Paper/Pulp and Concrete Recycling Project.

- L3.2 The noise emission limits in L3.1 apply for prevailing meteorological conditions (winds up to 3m/s), except under conditions of temperature inversions.
- L3.3 For condition L3.1, the LA10 noise level must be measured or computed at any residential boundary over a period of 15 minutes using "FAST" response on the sound level meter. 5dB(A) must be added to the measured level if the noise is substantially tonal or impulsive in character.

L4 Hours of operation

L4.1 All operations are to be carried out between the hours of 7am to 5pm Monday to Friday. No operations, except in emergency or as approved under Condition L4.2, are to be carried out at any other time.

L4.2 Work may be conducted outside approved hours where

- a) the delivery of material is required outside the specified hours by police or other authorities for safety reasons; and/or
- b) the operation or personnel or equipment are endangered

and prior notification is provided to the EPA and affected residents where possible or within a reasonable period in the case of emergency.

L4.3 The approved hours may be varied with the written consent of the EPA only where it is satisfied that the amenity of the residents in the locality will not be adversely affected.

L5 Potentially offensive odour

L5.1 The licensee must not cause or permit the emission of offensive odour beyond the boundary of the premises.

Note: Section 129 of the Protection of the Environment Operations Act 1997, provides that the licensee must not cause or permit the emission of any offensive odour from the premises but provides a defence if 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 a licence directed at minimising odour.

L5.2 No condition of this licence identifies a potentially offensive odour for the purposes of Section 129 of the Protection of the Environment Operations Act 1997.

4 Operating Conditions

Environment Protection Licence



Licence - 10398

O1 Activities must be carried out in a competent manner

O1.1 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.

O2 Maintenance of plant and equipment

O2.1 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.

O3 Dust

O3.1 All operations and activities occurring at the premises must be carried out in a manner that will minimise the emission of dust from the premises.

O4 Emergency response

O4.1 The licensee must have in place and implement procedures to minimise the risk of fire at the premises.

O4.2 The licensee must extinguish fires at the premises as soon as possible.

O5 Processes and management

O5.1 The licensee must take all practicable steps to control entry to the premises.

O5.2 The licensee must install and maintain a stockproof perimeter fence around the premises.

O5.3 The licensee must install and maintain lockable security gates at all access and departure locations.

O5.4 The licensee must ensure that all gates are locked whenever the landfill is unattended.

O5.5 The licensee must implement the litter management program specified in Section 8.2 of the Minda Landfill LEMP prepared by Douglas Partners and dated 20 June 2013.

O5.6 The licensee must control pests, vermin and weeds at the premises in accordance with Section 8.6 of the Minda Landfill LEMP prepared by Douglas Partners and dated 20 June 2013.

O5.7 The licensee must provide a report to the EPA within two months of installing each segment of the wall

Environment Protection Licence



Licence - 10398

liner and protective geofabric in accordance with Specifications L in the report identified by Condition A4.2 – Report on Operations Commencement Protocol Minda Landfill, prepared for Hallinans Haulage Pty Ltd by Douglas Partners – Project 40202 – April 2005. The report must provide the details of the replacement anchor trench and quality assurance details for joining the liner.

O6 Waste management

- O6.1 The last licensee must prepare and submit to the EPA within six months prior to the last load of waste being landfilled a closure plan in accordance with section 76 of the Protection of the Environment Operations Act 1997.
- O6.2 A high level alarm and pump interlock system must be installed and be operated on the leachate storage pond(s). The system must be configured such that the alarm system is activated, and any pump transferring leachate to the pond(s) is shutdown when the freeboard in the pond(s) is reduced to less than 0.75 metres.
- O6.3 The licensee must install and have operational on all leachate transfer pipes a leak detection system.
- O6.4 The licensee must only dispose of leachate by evaporation from the leachate pond, irrigation on the active tipping face (provided the tipping face is surrounded by a 300mm high bund) or disposed of off-site at a facility which can lawfully receive it. The active tipping face is that area not covered by daily and/or intermediate cover.
- O6.5 All waters which contact wastes (other than VENM only) are to be managed as leachate.
- O6.6 The overflow from the leachate pond must drain into the quarry void.
- O6.7 The licensee must monitor and record daily the volume of leachate in the leachate dam, including the volume of leachate stored, added, and removed from the leachate dam each day. These records must be kept by the licensee for at least 4 years from when the monitoring is undertaken and made available to the EPA on request.
- O6.8 There must be no incineration or burning of any waste at the premises.
- O6.9 A record must be maintained of all events involving the removal of any waste that was brought to the facility and which is not permitted to be disposed of at the facility.
- O6.10 Cover material must be VENM.
- a) Daily cover
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.
 - b) Intermediate cover
Cover material must be applied to a depth of 30 centimetres over surfaces of the landfilled waste at the premises which are to be exposed for more than 90 days.
 - c) Cover material stockpile
At least two weeks cover material must be available at the premises under all weather conditions. This material may be won on site, or alternatively a cover stockpile must be maintained adjacent to the tip face.

Environment Protection Licence



Licence - 10398

- O6.11 The licensee must install 12 x 120mm diameter holes in all caissons (specification R part F in the report identified by Condition A4.2 – Report on Operations Commencement Protocol Minda Landfill, prepared for Hallinans Haulage Pty Ltd by Douglas Partners – Project 40202 – April 2005) used in the riser.
- O6.12 The final contours of the landfill must be in accordance with Figures 5a and 5b of the Preliminary Landfill Closure Plan prepared by Douglas Partners and dated 27 May 2013.
- O6.13 All waste received at the premises that is classified as General Solid Waste (Non-putrescible) must be landfilled on the day of its receipt.
- O6.14 The licensee must provide a report to the EPA which details the design, construction, operation and rehabilitation of any new landfill cell. This report must be submitted to the EPA at least six months before the licensee intends to construct the cell, and it must include details on a QA/QC program which can demonstrate that the cell was constructed to meet its design specifications.
- O6.15 The licensee must submit a Construction Quality Assurance (CQA) report for each new landfill cell. This report must be prepared by a suitably qualified independent consult and be submitted to the EPA within 1 month of the completion of each new landfill cell. The report must be prepared in accordance with all relevant Australian Standards and include:
1. A description of the works undertaken;
 2. Works-as-executed-drawings;
 3. A discussion of the QA/QC activities undertaken;
 4. Results of quality control testing undertaken (including material conformance testing, field seam testing etc.);
 5. Photographs documenting all major stages of construction;
 6. A definitive statement from a suitably qualified engineer confirming that the works were constructed in accordance with the specifications and conditions of this licence.
- O6.16 The Licensee must ensure that the landfill is progressively capped in accordance with Appendix A - Benchmark Technique 28 of the Environmental Guidelines: Solid Waste Landfills (1996) and section 5.1 of the Minda Landfill Preliminary Landfill Closure Plan, Revision 5, prepared by Douglas Partners and dated 27 May 2013.
- O6.17 Cell 2Ab and Cell 2B must be constructed in accordance with the document titled "Report on Design of Landfill Cells 2A and 2B" prepared by Douglas Partners and dated 3 February 2009 and the document titled "Revised Cell 2A Layout, Minda Landfill" prepared by Douglas Partners and dated 19 June 2009 (EPA reference DOC15/294013).

O7 Other operating conditions

- O7.1 The tracking of waste and mud by vehicles departing the premises must be controlled to minimise the impact of these materials outside of the premises.
- O7.2 All vehicles leaving the site must pass through the wheel washer.

Environment Protection Licence

Licence - 10398



- O7.3 A vehicle wash down facility, which is designed to capture and treat wash water for either beneficial purposes or pumped out by an approved contractor, must be maintained.

5 Monitoring and Recording Conditions

M1 Monitoring records

- M1.1 The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.
- M1.2 All records required to be kept by this licence must be:
- in a legible form, or in a form that can readily be reduced to a legible form;
 - kept for at least 4 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.
- M1.3 The following records must be kept in respect of any samples required to be collected for the purposes of this licence:
- 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.

M2 Requirement to monitor concentration of pollutants discharged

- M2.1 For each monitoring/discharge point or utilisation area specified below (by a point number), the licensee must monitor (by sampling and obtaining results by analysis) the concentration of each pollutant specified in Column 1. The licensee must use the sampling method, units of measure, and sample at the frequency, specified opposite in the other columns:
- M2.2 Air Monitoring Requirements

POINT 15,16,17,18

Pollutant	Units of measure	Frequency	Sampling Method
Particulates - Deposited Matter	grams per square metre per month	Quarterly	AM-19

POINT 19

Pollutant	Units of measure	Frequency	Sampling Method
Methane	percent by volume	Quarterly	Special Method 1

- M2.3 Water and/ or Land Monitoring Requirements

Environment Protection Licence

Licence - 10398



POINT 1,2,3,4,5

Pollutant	Units of measure	Frequency	Sampling Method
Conductivity	microsiemens per centimetre	Quarterly	Probe
Dissolved Oxygen	milligrams per litre	Quarterly	Probe
Faecal Coliforms	colony forming units per 100 millilitres	Quarterly	Grab sample
Nitrogen (ammonia)	milligrams per litre	Quarterly	Grab sample
pH	pH	Quarterly	Probe
Potassium	milligrams per litre	Quarterly	Grab sample
Redox potential	millivolts	Quarterly	Probe
Total dissolved solids	milligrams per litre	Quarterly	Grab sample
Total organic carbon	milligrams per litre	Quarterly	Grab sample

POINT 6

Pollutant	Units of measure	Frequency	Sampling Method
Alkalinity (as calcium carbonate)	milligrams per litre	Yearly	Grab sample
Aluminium	milligrams per litre	Yearly	Grab sample
Arsenic	milligrams per litre	Yearly	Grab sample
Barium	milligrams per litre	Yearly	Grab sample
Benzene	milligrams per litre	Yearly	Grab sample
Cadmium	milligrams per litre	Yearly	Grab sample
Calcium	milligrams per litre	Yearly	Grab sample
Chloride	milligrams per litre	Yearly	Grab sample
Chromium (hexavalent)	milligrams per litre	Yearly	Grab sample
Chromium (total)	milligrams per litre	Yearly	Grab sample
Cobalt	milligrams per litre	Yearly	Grab sample
Conductivity	microsiemens per centimetre	Quarterly	Probe
Copper	milligrams per litre	Yearly	Grab sample
Ethyl benzene	milligrams per litre	Yearly	Grab sample
Fluoride	milligrams per litre	Yearly	Grab sample
Lead	milligrams per litre	Yearly	Grab sample
Magnesium	milligrams per litre	Yearly	Grab sample
Manganese	milligrams per litre	Yearly	Grab sample
Mercury	milligrams per litre	Yearly	Grab sample
Nitrate	milligrams per litre	Yearly	Grab sample
Nitrite	milligrams per litre	Yearly	Grab sample
Nitrogen (ammonia)	milligrams per litre	Yearly	Grab sample
Organochlorine pesticides	milligrams per litre	Yearly	Grab sample

Environment Protection Licence



Licence - 10398

Organophosphate pesticides	milligrams per litre	Yearly	Grab sample
pH	pH	Yearly	Probe
Phosphorus (total)	milligrams per litre	Yearly	Grab sample
Polycyclic aromatic hydrocarbons	milligrams per litre	Yearly	Grab sample
Potassium	milligrams per litre	Yearly	Grab sample
Sodium	milligrams per litre	Yearly	Grab sample
Sulfate	milligrams per litre	Yearly	Grab sample
Toluene	milligrams per litre	Yearly	Grab sample
Total dissolved solids	milligrams per litre	Yearly	Grab sample
Total organic carbon	milligrams per litre	Yearly	Grab sample
Total petroleum hydrocarbons	milligrams per litre	Yearly	Grab sample
Total Phenolics	milligrams per litre	Yearly	Grab sample
Total suspended solids	milligrams per litre	Yearly	Grab sample
Xylene	milligrams per litre	Yearly	Grab sample
Zinc	milligrams per litre	Yearly	Grab sample

POINT 7,8,9,10,11,12,13,14

Pollutant	Units of measure	Frequency	Sampling Method
Alkalinity (as calcium carbonate)	milligrams per litre	Quarterly	Grab sample
Aluminium	milligrams per litre	Yearly	Grab sample
Arsenic	milligrams per litre	Yearly	Grab sample
Barium	milligrams per litre	Yearly	Grab sample
Benzene	milligrams per litre	Yearly	Grab sample
Cadmium	milligrams per litre	Yearly	Grab sample
Calcium	milligrams per litre	Quarterly	Grab sample
Chloride	milligrams per litre	Quarterly	Grab sample
Chromium (hexavalent)	milligrams per litre	Yearly	Grab sample
Chromium (total)	milligrams per litre	Yearly	Grab sample
Cobalt	milligrams per litre	Yearly	Grab sample
Copper	milligrams per litre	Yearly	Grab sample
Ethyl benzene	milligrams per litre	Yearly	Grab sample
Fluoride	milligrams per litre	Yearly	Grab sample
Lead	milligrams per litre	Yearly	Grab sample
Magnesium	milligrams per litre	Quarterly	Grab sample
Manganese	milligrams per litre	Yearly	Grab sample
Mercury	milligrams per litre	Yearly	Grab sample
Nitrate	milligrams per litre	Yearly	Grab sample
Nitrite	milligrams per litre	Yearly	Grab sample
Nitrogen (ammonia)	milligrams per litre	Quarterly	Grab sample

Environment Protection Licence

Licence - 10398



Organochlorine pesticides	milligrams per litre	Yearly	Grab sample
Organophosphate pesticides	milligrams per litre	Yearly	Grab sample
pH	pH	Quarterly	Probe
Polycyclic aromatic hydrocarbons	milligrams per litre	Yearly	Grab sample
Potassium	milligrams per litre	Quarterly	Grab sample
Sodium	milligrams per litre	Quarterly	Grab sample
Standing Water Level	metres	Quarterly	In situ
Sulfate	milligrams per litre	Quarterly	Grab sample
Toluene	milligrams per litre	Yearly	Grab sample
Total dissolved solids	milligrams per litre	Quarterly	Grab sample
Total organic carbon	milligrams per litre	Quarterly	Grab sample
Total petroleum hydrocarbons	milligrams per litre	Yearly	Grab sample
Total Phenolics	milligrams per litre	Yearly	Grab sample
Xylene	milligrams per litre	Yearly	Grab sample
Zinc	milligrams per litre	Yearly	Grab sample

M2.4 For the purposes of the above table, Special Method 1 means monitoring undertaken in accordance with Benchmark Technique 17 of the document Environmental Guidelines: Solid Waste Landfills, 1996.

M3 Testing methods - concentration limits

M3.1 Monitoring for the concentration of a pollutant emitted to the air required to be conducted by this licence must be done in accordance with:

- any methodology which is required by or under the Act to be used for the testing of the concentration of the pollutant; or
- if no such requirement is imposed by or under the Act, any methodology which a condition of this licence requires to be used for that testing; or
- if no such requirement is imposed by or under the Act or by a condition of this licence, any methodology approved in writing by the EPA for the purposes of that testing prior to the testing taking place.

M3.2 Subject to any express provision to the contrary in this licence, monitoring for the concentration of a pollutant discharged to waters or applied to a utilisation area must be done in accordance with the Approved Methods Publication unless another method has been approved by the EPA in writing before any tests are conducted.

Note: The *Protection of the Environment Operations (Clean Air) Regulation 2010* requires testing for certain purposes to be conducted in accordance with test methods contained in the publication "Approved Methods for the Sampling and Analysis of Air Pollutants in NSW".

Environment Protection Licence

Licence - 10398



M4 Weather monitoring

M4.1 The licensee must monitor and record on a daily basis both rainfall and evaporation.

M5 Recording of pollution complaints

M5.1 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.

M5.2 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.

M5.3 The record of a complaint must be kept for at least 4 years after the complaint was made.

M5.4 The record must be produced to any authorised officer of the EPA who asks to see them.

M6 Telephone complaints line

M6.1 The licensee must operate during its operating hours a 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.

M6.2 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.

M6.3 The preceding two conditions do not apply until 3 months after: the date of the issue of this licence.

M7 Other monitoring and recording conditions

M7.1 The licensee must monitor the remaining disposal capacity (in cubic metres) of the landfill.

M7.2 The licensee must record for each load of waste received at the premises, the region where the waste was generated, namely whether it originated from:

- a) The Sydney Metropolitan Area (SMA);
- b) The Extended Regulated Area (ERA); or
- c) Outside the SMA and ERA.

M7.3 Any waste of unknown origin must be recorded as coming from the SMA.

Environment Protection Licence

Licence - 10398



M7.4 The licensee must retain this information for 4 years.

M7.5 The licensee must monitor the stability of the liner in the anchor trenches and submit a report to the EPA within 7 days of the liner pulling out of any anchor trench. The report must propose works to reinstate the liner and a timetable for implementing the works.

6 Reporting Conditions

R1 Annual return documents

R1.1 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.

At 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.

R1.2 An Annual Return must be prepared in respect of each reporting period, except as provided below.

R1.3 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.

R1.4 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.

R1.5 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').

R1.6 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.

R1.7 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.

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.

Environment Protection Licence



Licence - 10398

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

R2 Notification of environmental harm

R2.1 Notifications must be made by telephoning the Environment Line service on 131 555.

R2.2 The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred.

Note: The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.

R3 Written report

R3.1 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.

R3.2 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.

R3.3 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;
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; and
g) any other relevant matters.

R3.4 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.

R3.5 The licensee must provide a written report, to the Manager Waste Operations, detailing all waste received at the premises for each calendar month. The report must include the total quantity of waste received, the quantity received from each area (being SMA, ERA, RRA and other), and the classification of waste

Environment Protection Licence

Licence - 10398



received.

- R3.6 The monthly incoming waste report must include a table showing the per annum quantity of waste received, up to and including the month which the report relates to (ie. The quantity of waste received in the reporting month and the preceding 11 months).
- R3.7 The monthly waste report must be submitted within 28 days of the end of each calendar month, providing details of waste received during the previous calendar month.
- R3.8 The requirement to provide a monthly report of all waste received at the premises under this section, is in addition to and does not replace any other waste reporting requirements set out under the POEO Act or POEO Waste Regulations.

R4 Other reporting conditions

- R4.1 The licensee must maintain a daily log and record the following data of fires at the site:
 - a) Time and date when the fire was deliberately started or reported.
 - b) Whether the fire was authorised by the licensee, and, if not, the circumstances which ignited the fire.
 - c) The time and date that the fire ceased and whether it burnt out or was extinguished.
 - d) The location of fire (eg. clean timber stockpile, putrescible garbage cell, etc).
 - e) Prevailing weather conditions.
 - f) Observations made in regard to smoke direction and dispersion.
 - g) The amount of waste that was combusted by the fire.
 - h) Action taken to extinguish the fire.
- R4.2 The licensee or its employees or agents must notify the EPA in accordance with conditions R2.1 and R2.2 of all fires at the premises as soon as practical after becoming aware of the incident.

7 General Conditions

G1 Copy of licence kept at the premises or plant

- G1.1 A copy of this licence must be kept at the premises to which the licence applies.
- G1.2 The licence must be produced to any authorised officer of the EPA who asks to see it.
- G1.3 The licence must be available for inspection by any employee or agent of the licensee working at the premises.

8 Pollution Studies and Reduction Programs

U1 Leachate Management Works

- U1.1 By no later than 30 July 2014, the Licensee must submit a report to the EPA that includes:

Environment Protection Licence

Licence - 10398



1. Details of the volume of leachate irrigated over the active cell each day between 1 January 2014 and 30 June 2014.
2. Details of the volume of leachate discharged into the leachate storage ponds each day between 1 January 2014 and 30 June 2014.
3. Daily depth levels of the leachate storage ponds for the period 1 January 2014 to 30 June 2014.
4. Daily rainfall and evaporation data for the period 1 January 2014 to 30 June 2014.
5. An assessment of actual leachate management performance against the predictions made in the report titled "Report on Leachate Water Balance Study" (Douglas Partners, April 2013).
6. Recommendations for future management of leachate at the premises.

U1.2 The report referenced in Condition U1.1 must be prepared by a suitably qualified and experienced, independent consultant.

9 Special Conditions

E1 Financial assurance

- E1.1 A financial assurance in the form of an unconditional and irrevocable guarantee from a bank, building society or credit union in favour of the EPA in the amount of two hundred thousand dollars (\$200,000.00) must be provided to the EPA. The financial assurance is required to secure or guarantee funding for works or programs required by or under this licence.
- E1.2 The financial assurance must be maintained during the operation of the facility and thereafter until such time as the EPA is satisfied that the premises is environmentally secure. At this time the licensee may seek the return of the financial assurance from the EPA.
- E1.3 The assurance must be replenished to the full amount if the EPA has claimed on or realised the financial assurance or any part of it to undertake a work or program required to be carried out by the licence which has not been undertaken by the licence holder.
- E1.4 The EPA may increase the amount of the financial assurance at any time as a result of reassessment of the total likely costs and expenses of rehabilitation of the premises.
- E1.5 The licensee must provide to the EPA the original counterpart guarantee within five working days of:
- a) The financial assurance required by Condition E1.1, and
 - b) The adjusted financial assurance as required by Condition E1.3 and E1.4.
- E1.6 In the event that the licensee does not comply with any condition of the licence or the requirements of the Protection of the Environment Operations Act 1997 and the licensee does not undertake the actions required by the conditions and/or by the EPA, the EPA may claim against the financial assurance lodged by the licensee to ensure that these actions are undertaken.

Environment Protection Licence



Licence - 10398

Dictionary

General Dictionary

3DGM [in relation to a concentration limit]	Means the three day geometric mean, which is calculated by multiplying the results of the analysis of three samples collected on consecutive days and then taking the cubed root of that amount. Where one or more of the samples is zero or below the detection limit for the analysis, then 1 or the detection limit respectively should be used in place of those samples
Act	Means the Protection of the Environment Operations Act 1997
activity	Means a scheduled or non-scheduled activity within the meaning of the Protection of the Environment Operations Act 1997
actual load	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
AM	Together with a number, means an ambient air monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
AMG	Australian Map Grid
anniversary date	The anniversary date is the anniversary each year of the date of issue of the licence. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
annual return	Is defined in R1.1
Approved Methods Publication	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
assessable pollutants	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
BOD	Means biochemical oxygen demand
CEM	Together with a number, means a continuous emission monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
COD	Means chemical oxygen demand
composite sample	Unless otherwise specifically approved in writing by the EPA, a sample consisting of 24 individual samples collected at hourly intervals and each having an equivalent volume.
cond.	Means conductivity
environment	Has the same meaning as in the Protection of the Environment Operations Act 1997
environment protection legislation	Has the same meaning as in the Protection of the Environment Administration Act 1991
EPA	Means Environment Protection Authority of New South Wales.
fee-based activity classification	Means the numbered short descriptions in Schedule 1 of the Protection of the Environment Operations (General) Regulation 2009.
general solid waste (non-putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997

Environment Protection Licence



Licence - 10398

flow weighted composite sample	Means a sample whose composites are sized in proportion to the flow at each composites time of collection.
general solid waste (putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
grab sample	Means a single sample taken at a point at a single time
hazardous waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
licensee	Means the licence holder described at the front of this licence
load calculation protocol	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
local authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
material harm	Has the same meaning as in section 147 Protection of the Environment Operations Act 1997
MBAS	Means methylene blue active substances
Minister	Means the Minister administering the Protection of the Environment Operations Act 1997
mobile plant	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
motor vehicle	Has the same meaning as in the Protection of the Environment Operations Act 1997
O&G	Means oil and grease
percentile [in relation to a concentration limit of a sample]	Means that percentage [eg.50%] of the number of samples taken that must meet the concentration limit specified in the licence for that pollutant over a specified period of time. In this licence, the specified period of time is the Reporting Period unless otherwise stated in this licence.
plant	Includes all plant within the meaning of the Protection of the Environment Operations Act 1997 as well as motor vehicles.
pollution of waters [or water pollution]	Has the same meaning as in the Protection of the Environment Operations Act 1997
premises	Means the premises described in condition A2.1
public authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
regional office	Means the relevant EPA office referred to in the Contacting the EPA document accompanying this licence
reporting period	For the purposes of this licence, the reporting period means the period of 12 months after the issue of the licence, and each subsequent period of 12 months. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
restricted solid waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
scheduled activity	Means an activity listed in Schedule 1 of the Protection of the Environment Operations Act 1997
special waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
TM	Together with a number, means a test method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .

Environment Protection Licence



Licence - 10398

TSP	Means total suspended particles
TSS	Means total suspended solids
Type 1 substance	Means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or more of those elements
Type 2 substance	Means the elements beryllium, chromium, cobalt, manganese, nickel, selenium, tin or vanadium or any compound containing one or more of those elements
utilisation area	Means any area shown as a utilisation area on a map submitted with the application for this licence
waste	Has the same meaning as in the Protection of the Environment Operations Act 1997
waste type	Means liquid, restricted solid waste, general solid waste (putrescible), general solid waste (non - putrescible), special waste or hazardous waste

Mr Stephen Beaman

Environment Protection Authority

(By Delegation)

Date of this edition: 06-August-2013

End Notes

- 1 Licence varied by change to DEC Region allocation, issued on 02-Mar-2006, which came into effect on 02-Mar-2006.
- 2 Licence varied by notice 1066763, issued on 04-Jan-2007, which came into effect on 04-Jan-2007.
- 3 Condition A1.3 Not applicable varied by notice issued on <issue date> which came into effect on <effective date>
- 4 Licence varied by notice 1077217, issued on 23-Sep-2010, which came into effect on 23-Sep-2010.
- 5 Licence varied by notice 1518405 issued on 17-Mar-2014
- 6 Licence varied by notice 1533375 issued on 04-Sep-2015

Environment Protection Licence

Licence - 11765

Licence Details	
Number:	11765
Anniversary Date:	01-July

Licensee
SOUTH COAST CONCRETE CRUSHING AND RECYCLING PTY LIMITED
PO BOX 192
OAK FLATS NSW 2529

Premises
SOUTH COAST CONCRETE CRUSHING & RECYCLING
PRINCES HIGHWAY
NOWRA NSW 2541

Scheduled Activity
Crushing, grinding or separating
Extractive activities
Resource recovery

Fee Based Activity	Scale
Crushing, grinding or separating	> 100000-500000 T annual processing capacity
Land-based extractive activity	> 100000-500000 T annual capacity to extract, process or store
Recovery of general waste	Any general waste recovered

Region
South East - Queanbeyan
11 Farrer Place
QUEANBEYAN NSW 2620
Phone: (02) 6229 7002
Fax: (02) 6229 7006
PO Box 622
QUEANBEYAN NSW 2620



Environment Protection Licence

Licence - 11765

INFORMATION ABOUT THIS LICENCE	4
Dictionary	4
Responsibilities of licensee	4
Variation of licence conditions	4
Duration of licence	4
Licence review	4
Fees and annual return to be sent to the EPA	4
Transfer of licence	5
Public register and access to monitoring data	5
1 ADMINISTRATIVE CONDITIONS	6
A1 What the licence authorises and regulates	6
A2 Premises or plant to which this licence applies	6
A3 Information supplied to the EPA	6
2 DISCHARGES TO AIR AND WATER AND APPLICATIONS TO LAND	7
P1 Location of monitoring/discharge points and areas	7
3 LIMIT CONDITIONS	7
L1 Pollution of waters	7
L2 Waste	8
L3 Noise limits	9
L4 Blasting	9
L5 Hours of operation	10
4 OPERATING CONDITIONS	10
O1 Activities must be carried out in a competent manner	10
O2 Maintenance of plant and equipment	10
O3 Dust	11
O4 Other operating conditions	11
5 MONITORING AND RECORDING CONDITIONS	11
M1 Monitoring records	11
M2 Requirement to monitor concentration of pollutants discharged	11
M3 Testing methods - concentration limits	12
M4 Recording of pollution complaints	12
M5 Telephone complaints line	13
M6 Blasting	13
6 REPORTING CONDITIONS	14



Environment Protection Licence

Licence - 11765

R1	Annual return documents	14
R2	Notification of environmental harm	15
R3	Written report	15
7	GENERAL CONDITIONS	16
G1	Copy of licence kept at the premises or plant	16
G2	Other general conditions	16
8	SPECIAL CONDITIONS	16
E1	Financial Assurance	16
DICTIONARY	.....	19
	General Dictionary	19

Environment Protection Licence

Licence - 11765



Information about this licence

Dictionary

A definition of terms used in the licence can be found in the dictionary at the end of this licence.

Responsibilities of licensee

Separate to the requirements of this licence, general obligations of licensees are set out in the Protection of the Environment Operations Act 1997 ("the Act") and the Regulations made under the Act. These include obligations to:

- ensure persons associated with you comply with this licence, as set out in section 64 of the Act;
- control the pollution of waters and the pollution of air (see for example sections 120 - 132 of the Act);
- report incidents causing or threatening material environmental harm to the environment, as set out in Part 5.7 of the Act.

Variation of licence conditions

The licence holder can apply to vary the conditions of this licence. An application form for this purpose is available from the EPA.

The EPA may also vary the conditions of the licence at any time by written notice without an application being made.

Where a licence has been granted in relation to development which was assessed under the Environmental Planning and Assessment Act 1979 in accordance with the procedures applying to integrated development, the EPA may not impose conditions which are inconsistent with the development consent conditions until the licence is first reviewed under Part 3.6 of the Act.

Duration of licence

This licence will remain in force until the licence is surrendered by the licence holder or until it is suspended or revoked by the EPA or the Minister. A licence may only be surrendered with the written approval of the EPA.

Licence review

The Act requires that the EPA review your licence at least every 5 years after the issue of the licence, as set out in Part 3.6 and Schedule 5 of the Act. You will receive advance notice of the licence review.

Fees and annual return to be sent to the EPA

For each licence fee period you must pay:

- an administrative fee; and
- a load-based fee (if applicable).

Environment Protection Licence



Licence - 11765

The EPA publication “A Guide to Licensing” contains information about how to calculate your licence fees. The licence requires that an Annual Return, comprising a Statement of Compliance and a summary of any monitoring required by the licence (including the recording of complaints), be submitted to the EPA. The Annual Return must be submitted within 60 days after the end of each reporting period. See condition R1 regarding the Annual Return reporting requirements.

Usually the licence fee period is the same as the reporting period.

Transfer of licence

The licence holder can apply to transfer the licence to another person. An application form for this purpose is available from the EPA.

Public register and access to monitoring data

Part 9.5 of the Act requires the EPA to keep a public register of details and decisions of the EPA in relation to, for example:

- licence applications;
- licence conditions and variations;
- statements of compliance;
- load based licensing information; and
- load reduction agreements.

Under s320 of the Act application can be made to the EPA for access to monitoring data which has been submitted to the EPA by licensees.

This licence is issued to:

SOUTH COAST CONCRETE CRUSHING AND RECYCLING PTY LIMITED
PO BOX 192
OAK FLATS NSW 2529

subject to the conditions which follow.

Environment Protection Licence

Licence - 11765

1 Administrative Conditions

A1 What the licence authorises and regulates

A1.1 This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, fee-based activity classification and the scale of the operation.

Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition.

Scheduled Activity	Fee Based Activity	Scale
Crushing, grinding or separating	Crushing, grinding or separating	> 100000 - 500000 T annual processing capacity
Extractive activities	Land-based extractive activity	> 100000 - 500000 T annual capacity to extract, process or store
Resource recovery	Recovery of general waste	Any general waste recovered

A2 Premises or plant to which this licence applies

A2.1 The licence applies to the following premises:

Premises Details
SOUTH COAST CONCRETE CRUSHING & RECYCLING
PRINCES HIGHWAY
NOWRA
NSW 2541
LOT 30 DP 1169494
THE PREMISES BOUNDARY IS DEFINED AS THE RED LINE IN THE MAP TITLED "EPA MONITORING LOCATIONS UPDATED FEB 2019" (DOC19/65974-1)

A3 Information supplied to the EPA

A3.1 Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence.

In this condition the reference to "the licence application" includes a reference to:

- a) the applications for any licences (including former pollution control approvals) which this licence replaces under the Protection of the Environment Operations (Savings and Transitional) Regulation 1998;
- and

Environment Protection Licence



Licence - 11765

b) the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence.

2 Discharges to Air and Water and Applications to Land

P1 Location of monitoring/discharge points and areas

P1.1 The following points referred to in the table below are identified in this licence for the purposes of monitoring and/or the setting of limits for the emission of pollutants to the air from the point.

<i>Air</i>			
EPA identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
1	Dust Deposition Monitoring		Dust Deposition Gauge labelled 'DDG1' on the map titled "Monitoring Locations" dated 25 February 2019 (EPA reference DOC19/65974-1).
2	Dust Deposition Monitoring		Dust Deposition Gauge labelled 'DDG 2' on the map titled "Monitoring Locations" dated 25 February 2019 (EPA reference DOC19/65974-1).
3	Dust Deposition Monitoring		Dust Deposition Gauge labelled 'DDG 3' on the map titled "Monitoring Locations" dated 25 February 2019 (EPA reference DOC19/65974-1).
4	Dust Deposition Monitoring		Dust Deposition Gauge labelled 'DDG 4' on the map titled "Monitoring Locations" dated 25 February 2019 (EPA reference DOC19/65974-1).
5	High Volume Air Sampler		High Volume Air Sampler labelled 'TSP and Pm10 North' on the map titled "Monitoring Locations" dated 25 February 2019 (EPA reference DOC19/65974-1).
6	High Volume Air Sampler		High Volume Air Sampler labelled 'TSP and Pm10 South' on the map titled "Monitoring Locations" dated 25 February 2019 (EPA reference DOC19/65974-1).

3 Limit Conditions

L1 Pollution of waters

L1.1 Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the Protection of the Environment Operations Act 1997.

Environment Protection Licence

Licence - 11765

L2 Waste

L2.1 The licensee must not cause, permit or allow any waste to be received at the premises, except the wastes expressly referred to in the column titled "Waste" and meeting the definition, if any, in the column titled "Description" in the table below.

Any waste received at the premises must only be used for the activities referred to in relation to that waste in the column titled "Activity" in the table below.

Any waste received at the premises is subject to those limits or conditions, if any, referred to in relation to that waste contained in the column titled "Other Limits" in the table below.

This condition does not limit any other conditions in this licence.

Code	Waste	Description	Activity	Other Limit
NA	Virgin excavated natural material	Virgin Excavated Natural Material as defined in the POEO Act	Resource recovery	No more than 200,000 tonnes per year imported to the site and used for either Resource Recovery or for Pond/Quarry Rehabilitation in accordance with the site's Project Approval
NA	Waste	Any waste received on site that is below licensing thresholds in Schedule 1 of the POEO Act, as in force from time to time	-	NA
NA	Crusher dust and road base material	Crusher dust and other road base materials that are also classified as general solid waste in accordance with the POEO Act.	Resource recovery	No more than 125,000 tonnes per year imported to the site.
NA	Building and demolition waste	Brick, tile, concrete and asphalt waste that is also classified as general solid waste in accordance with the POEO Act.	Resource recovery	No more than 50,000 tonnes per year imported to the site.
NA	General or Specific exempted waste	Waste that meets all the conditions of a resource recovery exemption under Clause 51A of the Protection of the Environment Operations (Waste) Regulation 2005	As specified in each particular resource recovery exemption	NA

Environment Protection Licence

Licence - 11765

- L2.2 (a) The authorised amount of waste permitted on the premises cannot exceed 30,000 tonnes at any one time.
- (b) Notwithstanding any limit specified in the above table, the licensee shall not exceed the authorised amount specified in the licence. Where the authorised amount is less than the total of all wastes listed in the above table, the authorised amount takes precedence.

L3 Noise limits

- L3.1 Noise generated at the premises must not exceed the noise impact assessment criteria in the table below.

Location and Locality	Day LAeq(15 min)	Evening LAeq(15 min)	night LAeq (15 min)
80 Links Road	39	35	35
371 Old Southern Road	45	35	35
243 Princess Highway	49	38	38
South Coast Correctional Facility	51	37	37

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

L4 Blasting

- L4.1 The ground vibration peak particle velocity from blasting operations carried out in or on the premises must not exceed the limits set out in the table below;

Receiver	Peak particle velocity (mm/s)	Allowable exceedance
Residential & South Coast Correctional Facility	5	5% of the total number of blasts in any 12 month period
	10	0%
Commercial	25	0%

- L4.2 The overpressure level from blasting operations carried out in or on the premises must not exceed the criteria outlined in the table below;

Receiver	Airblast overpressure level dB(Lin Peak)	Allowable exceedance
Residential & South Coast Correctional Facility	115	5% of the total number of blasts in any 12 month period
	120	0%

Environment Protection Licence



Licence - 11765

Commercial

125

0%

- L4.3 The licensee must monitor all blasts carried out in or on the premises at or near the nearest residence or noise sensitive location (such as a school or hospital) that is likely to be most affected by the blast and that is not owned by the licensee or subject of a private agreement between the owner of the residence or noise sensitive location and the licensee relating to alternative blasting limits.
- L4.4 The licensee must not carry out more than one blast per week at the premises.

L5 Hours of operation

- L5.1 Activities covered by this licence must only be carried out between the hours of 0700 and 1800 Monday to Friday, and 0700 and 1600 Saturday, and at no time on Sundays and Public Holidays.

Note:

- *Maintenance activities may be conducted outside weekday hours provided the activities are not audible at any privately owned residence, or until 6pm on Saturdays,*
- *Up to three unladen trucks are permitted to arrive at the site between 6:00am and 7:00am on Monday to Saturday; and up to three unladen trucks are permitted to return to the site between 6:00pm and 8:00pm Monday to Friday, and between 4:00pm and 6:00pm on Saturday,*
- *This condition does not apply to the delivery of material if that delivery is required by police or other authorities for safety reasons, and/ or the operations of personnel or equipment are endangered. In such circumstances, notification is to be provided to the EPA and the affected residents as soon as possible, or within a reasonable period in the case of an emergency.*

- L5.2 Blasting in or on the premises must only be carried out between 0900 hours and 1500 hours, Monday to Friday. Blasting in or on the premises must not take place on Weekends or Public Holidays.

4 Operating Conditions

O1 Activities must be carried out in a competent manner

- O1.1 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.

O2 Maintenance of plant and equipment

- O2.1 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.

Environment Protection Licence



Licence - 11765

O3 Dust

- O3.1 All operations and activities occurring at the premises must be carried out in a manner that will minimise the emission of dust from the premises.
- O3.2 The premises must be maintained in a condition which minimises or prevents the emission of dust from the premises.
- O3.3 Trucks entering and leaving the premises that are carrying loads must be covered at all times, except during loading and unloading.

O4 Other operating conditions

Covering of Loads

- O4.1 Trucks entering and leaving the premises that are carrying loads must be covered at all times, except during loading and unloading.

5 Monitoring and Recording Conditions

M1 Monitoring records

- M1.1 The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.
- M1.2 All records required to be kept by this licence must be:
 - a) in a legible form, or in a form that can readily be reduced to a legible form;
 - b) kept for at least 4 years after the monitoring or event to which they relate took place; and
 - c) produced in a legible form to any authorised officer of the EPA who asks to see them.
- M1.3 The following records must be kept in respect of any samples required to be collected for the purposes of this licence:
 - a) the date(s) on which the sample was taken;
 - b) the time(s) at which the sample was collected;
 - c) the point at which the sample was taken; and
 - d) the name of the person who collected the sample.

M2 Requirement to monitor concentration of pollutants discharged

- M2.1 For each monitoring/discharge point or utilisation area specified below (by a point number), the licensee must monitor (by sampling and obtaining results by analysis) the concentration of each pollutant specified in Column 1. The licensee must use the sampling method, units of measure, and sample at the frequency, specified opposite in the other columns:

Environment Protection Licence



Licence - 11765

M2.2 Air Monitoring Requirements

POINT 1,2,3,4

Pollutant	Units of measure	Frequency	Sampling Method
Particulates - Deposited Matter	grams per square metre per month	Monthly	Australian Standard 3580.10.1-2003

POINT 5,6

Pollutant	Units of measure	Frequency	Sampling Method
PM10	micrograms per cubic metre	Special Frequency 1	AS/NZS 3580.9.6:2003
Total suspended particles	micrograms per cubic metre	Special Frequency 1	AS/NZS 3580.9.6:2003

Note: Special Frequency 1 means the collection of samples on a one day in six cycle using a HVAS fitted with size selective inlet for PM10.

M3 Testing methods - concentration limits

M3.1 Monitoring for the concentration of a pollutant emitted to the air required to be conducted by this licence must be done in accordance with:

- any methodology which is required by or under the Act to be used for the testing of the concentration of the pollutant; or
- if no such requirement is imposed by or under the Act, any methodology which a condition of this licence requires to be used for that testing; or
- if no such requirement is imposed by or under the Act or by a condition of this licence, any methodology approved in writing by the EPA for the purposes of that testing prior to the testing taking place.

Note: The *Protection of the Environment Operations (Clean Air) Regulation 2010* requires testing for certain purposes to be conducted in accordance with test methods contained in the publication "Approved Methods for the Sampling and Analysis of Air Pollutants in NSW".

M4 Recording of pollution complaints

M4.1 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.

M4.2 The record must include details of the following:

- the date and time of the complaint;

Environment Protection Licence



Licence - 11765

- 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.

M4.3 The record of a complaint must be kept for at least 4 years after the complaint was made.

M4.4 The record must be produced to any authorised officer of the EPA who asks to see them.

M5 Telephone complaints line

- M5.1 The licensee must operate during its operating hours a 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.
- M5.2 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.
- M5.3 The preceding two conditions do not apply until 3 months after: the date of the issue of this licence.

M6 Blasting

- M6.1 To determine compliance with condition(s) L4.1 and L4.2
 - a) Airblast overpressure and ground vibration levels must be measured at or near the nearest residence or noise sensitive location (such as a school or hospital) that is likely to be most affected by the blast for all blasts carried out in or on the premises; and
 - b) Instrumentation used to measure the airblast overpressure and ground vibration levels must meet the requirements of Australian Standard 2187.2 of 1993.
- M6.2 For the purposes of blast monitoring, the following information must be recorded for each blast carried out in or on the premises;
 - (i) the time and date of each blast;
 - (ii) the location(s) at which the blast was measured;
 - (iii) the ground vibration for each blast;
 - (iv) the airblast overpressure for each blast; and
 - (v) evidence that during each 12 month period, a calibration check had been carried out on each blast monitor to ensure accuracy of the reported data.

6 Reporting Conditions

Environment Protection Licence



Licence - 11765

R1 Annual return documents

R1.1 The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:

1. a Statement of Compliance,
2. a Monitoring and Complaints Summary,
3. a Statement of Compliance - Licence Conditions,
4. a Statement of Compliance - Load based Fee,
5. a Statement of Compliance - Requirement to Prepare Pollution Incident Response Management Plan,
6. a Statement of Compliance - Requirement to Publish Pollution Monitoring Data; and
7. a Statement of Compliance - Environmental Management Systems and Practices.

At 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.

R1.2 An Annual Return must be prepared in respect of each reporting period, except as provided below.

R1.3 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.

R1.4 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.

R1.5 The Annual Return for the reporting period must be supplied to the EPA via eConnect *EPA* or 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').

R1.6 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.

R1.7 Within the Annual Return, the Statements 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.

R1.8 The results of the blast monitoring required by condition M7.1 must be submitted to the EPA within 7 days after each blast event and at the end of each reporting period.

R1.9 The licensee must report any exceedence of the licence blasting limits to the regional office of the EPA as soon as practicable after the exceedence becomes known to the licensee or to one of the licensee's employees or agents.

Environment Protection Licence



Licence - 11765

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.

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

R2 Notification of environmental harm

R2.1 Notifications must be made by telephoning the Environment Line service on 131 555.

R2.2 The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred.

Note: The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.

R3 Written report

R3.1 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.

R3.2 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.

R3.3 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;
- 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; and
- g) any other relevant matters.

R3.4 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.

Environment Protection Licence

Licence - 11765



7 General Conditions

G1 Copy of licence kept at the premises or plant

- G1.1 A copy of this licence must be kept at the premises to which the licence applies.
- G1.2 The licence must be produced to any authorised officer of the EPA who asks to see it.
- G1.3 The licence must be available for inspection by any employee or agent of the licensee working at the premises.

G2 Other general conditions

- G2.1 Backfilling of the quarry void and water storage facility is restricted to the use of materials which are "Virgin Excavated Natural Materials" as defined in the *Protection of the Environment Operations Act 1997*.

8 Special Conditions

E1 Financial Assurance

Requirement to Maintain Financial Assurance

- E1.1 (a) A financial assurance in the form of an unconditional and irrevocable and on-demand guarantee from a bank, building society or credit union operating in Australia as an "Authorised Deposit-taking Institution" under the *Banking Act 1959* of the Commonwealth of Australia and supervised by the Australian Prudential Regulatory Authority (APRA) must be provided to the EPA in the aggregate amount of:
 - (i) one hundred thousand dollars (\$100,000) by 30 June 2016, and
 - (ii) two hundred thousand dollars (\$200,000) by 30 June 2017.
 - (b) The financial assurance is required to secure or guarantee funding for works or programs required by or under this licence.
 - (c) The financial assurance must contain a term that provides that any monies claimed can be paid to the EPA or, at the written direction of the EPA, to any other person.
 - (d) The licensee must provide to the EPA, along with the original counterpart guarantee(s), confirmation in writing that the financial institution providing the guarantee(s) is subject to supervision by the Australian Prudential Regulatory Authority.
- E1.2 The financial assurance must be maintained during the operation of the facility and thereafter until such time as the EPA is satisfied the premises are environmentally secure.

Environment Protection Licence

Licence - 11765

- E1.3 The financial assurance must be replenished by the full amount claimed or realised if the EPA has claimed on or realised the financial assurance or any part of it to undertake a work or program required to be carried out by the licence which has not been undertaken by the licence holder.
- E1.4 The EPA may require an increase in the amount of the financial assurance at any time as a result of reassessment of the total likely costs and expenses of rehabilitation of the premises.
- E1.5 **The licensee must provide to the EPA the original counterpart guarantee within five working days of the issue of:**
- a) **the financial assurance required by condition E1.1(a)(i) and (ii), and**
 - b) **the adjusted financial assurance as required by condition E1.3 and E1.4**

Environmental Obligations of Licensee (Works & Programs)

- E1.6 While the licensee's premises are being used for the purpose to which the licence relates, the licensee must:
- a) Clean up any spill, leak or other discharge of any waste(s) or other material(s) as soon as practicable after it becomes known to the licensee or to one of the licensee's employees or agents.
 - b) In the event(s) that any liquid and non-liquid waste(s) is unlawfully deposited on the premises, such waste(s) must be removed and lawfully disposed of as soon as practicable or in accordance with any direction given by the EPA.
 - c) Provide all monitoring data as required by the conditions of this licence or as directed by the EPA.
- E1.7 In the event of an earthquake, storm, fire, flood or any other event where it is reasonable to suspect that a pollution incident has occurred, is occurring or is likely to occur, the licensee (whether or not the premises continue to be used for the purposes to which the licence relates) must:
- a) make all efforts to contain all firewater on the licensee's premises,
 - b) make all efforts to control air pollution from the licensee's premises,
 - c) make all efforts to contain any discharge, spill or run-off from the licensee's premises,
 - d) make all efforts to prevent flood water entering the licensee's premises,
 - e) remediate and rehabilitate any exposed areas of soil and/or waste,
 - f) lawfully dispose of all liquid and solid waste(s) stored on the premises that is not already securely disposed of,
 - g) at the request of the EPA monitor groundwater beneath the licensee's premises and its potential to migrate from the licensee's premises,
 - h) at the request of the EPA monitor surface water leaving the licensee's premises; and
 - i) ensure the licensee's premises is secure.
- E1.8 After the licensee's premises cease to be used for the purpose to which the licence relates or in the event that the licensee ceases to carry out the activity that is the subject of this licence, that licensee must:
- a) remove and lawfully dispose of all liquid and non-liquid waste stored on the licensee's premises; and
 - b) rehabilitate the site, including conducting an assessment of and if required remediation of any site contamination.

EPA May Claim on a Financial Assurance

Environment Protection Licence

Licence - 11765



E1.9 The EPA may claim on a financial assurance under s303 of the POEO Act if a licensee fails to carry out any work or program required to comply with the conditions of this licence.

Environment Protection Licence

Licence - 11765

Dictionary

General Dictionary

3DGM [in relation to a concentration limit]	Means the three day geometric mean, which is calculated by multiplying the results of the analysis of three samples collected on consecutive days and then taking the cubed root of that amount. Where one or more of the samples is zero or below the detection limit for the analysis, then 1 or the detection limit respectively should be used in place of those samples
Act	Means the Protection of the Environment Operations Act 1997
activity	Means a scheduled or non-scheduled activity within the meaning of the Protection of the Environment Operations Act 1997
actual load	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
AM	Together with a number, means an ambient air monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
AMG	Australian Map Grid
anniversary date	The anniversary date is the anniversary each year of the date of issue of the licence. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
annual return	Is defined in R1.1
Approved Methods Publication	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
assessable pollutants	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
BOD	Means biochemical oxygen demand
CEM	Together with a number, means a continuous emission monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
COD	Means chemical oxygen demand
composite sample	Unless otherwise specifically approved in writing by the EPA, a sample consisting of 24 individual samples collected at hourly intervals and each having an equivalent volume.
cond.	Means conductivity
environment	Has the same meaning as in the Protection of the Environment Operations Act 1997
environment protection legislation	Has the same meaning as in the Protection of the Environment Administration Act 1991
EPA	Means Environment Protection Authority of New South Wales.
fee-based activity classification	Means the numbered short descriptions in Schedule 1 of the Protection of the Environment Operations (General) Regulation 2009.
general solid waste (non-putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997

Environment Protection Licence

Licence - 11765

flow weighted composite sample	Means a sample whose composites are sized in proportion to the flow at each composites time of collection.
general solid waste (putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
grab sample	Means a single sample taken at a point at a single time
hazardous waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
licensee	Means the licence holder described at the front of this licence
load calculation protocol	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
local authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
material harm	Has the same meaning as in section 147 Protection of the Environment Operations Act 1997
MBAS	Means methylene blue active substances
Minister	Means the Minister administering the Protection of the Environment Operations Act 1997
mobile plant	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
motor vehicle	Has the same meaning as in the Protection of the Environment Operations Act 1997
O&G	Means oil and grease
percentile [in relation to a concentration limit of a sample]	Means that percentage [eg.50%] of the number of samples taken that must meet the concentration limit specified in the licence for that pollutant over a specified period of time. In this licence, the specified period of time is the Reporting Period unless otherwise stated in this licence.
plant	Includes all plant within the meaning of the Protection of the Environment Operations Act 1997 as well as motor vehicles.
pollution of waters [or water pollution]	Has the same meaning as in the Protection of the Environment Operations Act 1997
premises	Means the premises described in condition A2.1
public authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
regional office	Means the relevant EPA office referred to in the Contacting the EPA document accompanying this licence
reporting period	For the purposes of this licence, the reporting period means the period of 12 months after the issue of the licence, and each subsequent period of 12 months. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
restricted solid waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
scheduled activity	Means an activity listed in Schedule 1 of the Protection of the Environment Operations Act 1997
special waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
TM	Together with a number, means a test method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .

Environment Protection Licence



Licence - 11765

TSP	Means total suspended particles
TSS	Means total suspended solids
Type 1 substance	Means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or more of those elements
Type 2 substance	Means the elements beryllium, chromium, cobalt, manganese, nickel, selenium, tin or vanadium or any compound containing one or more of those elements
utilisation area	Means any area shown as a utilisation area on a map submitted with the application for this licence
waste	Has the same meaning as in the Protection of the Environment Operations Act 1997
waste type	Means liquid, restricted solid waste, general solid waste (putrescible), general solid waste (non - putrescible), special waste or hazardous waste

Mr Peter Bloem

Environment Protection Authority

(By Delegation)

Date of this edition: 04-April-2003

Environment Protection Licence

Licence - 11765



End Notes

- 1 Licence varied by change to DEC Region allocation, issued on 03-Mar-2006, which came into effect on 03-Mar-2006.
- 2 Licence varied by change to DEC file number, issued on 09-Mar-2007, which came into effect on 09-Mar-2007.
- 3 Condition A1.3 Not applicable varied by notice issued on <issue date> which came into effect on <effective date>
- 4 Licence varied by notice 1112969, issued on 11-Aug-2010, which came into effect on 11-Aug-2010.
- 5 Licence varied by notice 1506009 issued on 25-Mar-2013
- 6 Licence varied by notice 1533649 issued on 21-Dec-2015
- 7 Licence varied by notice 1541853 issued on 22-Jun-2016
- 8 Licence fee period changed by notice 1549117 on 07-Apr-2017
- 9 Licence varied by notice 1578133 issued on 04-Apr-2019
- 10 Licence varied by notice 1585526 issued on 01-Oct-2019

Environment Protection Licence

Licence - 20593

Licence Details	
Number:	20593
Anniversary Date:	20-December

Licensee
HI-QUALITY QUARRY (NSW) PTY LTD
PO BOX 42
KEMPS CREEK NSW 2171

Premises
HI QUALITY KEMPS CREEK CENTRAL
1503-1519 ELIZABETH DRIVE
KEMPS CREEK NSW 2178

Scheduled Activity
Crushing, grinding or separating
Extractive activities
Resource recovery
Waste storage

Fee Based Activity	Scale
Crushing, grinding or separating	> 100000-500000 T annual processing capacity
Land-based extractive activity	> 50000-100000 T annual capacity to extract, process or store
Recovery of general waste	Any general waste recovered
Waste storage - other types of waste	Any other types of waste stored

Region
Sydney Waste Compliance
59-61 Goulburn Street
SYDNEY NSW 2000
Phone: (02) 9995 5000
Fax: (02) 9995 5999
PO Box A290
SYDNEY SOUTH NSW 1232



Environment Protection Licence

Licence - 20593

INFORMATION ABOUT THIS LICENCE	4
Dictionary	4
Responsibilities of licensee	4
Variation of licence conditions	4
Duration of licence	4
Licence review	4
Fees and annual return to be sent to the EPA	4
Transfer of licence	5
Public register and access to monitoring data	5
1 ADMINISTRATIVE CONDITIONS	6
A1 What the licence authorises and regulates	6
A2 Premises or plant to which this licence applies	6
A3 Information supplied to the EPA	6
2 DISCHARGES TO AIR AND WATER AND APPLICATIONS TO LAND	7
P1 Location of monitoring/discharge points and areas	7
3 LIMIT CONDITIONS	8
L1 Pollution of waters	8
L2 Concentration limits	8
L3 Waste	9
L4 Noise limits	10
L5 Hours of operation	11
4 OPERATING CONDITIONS	11
O1 Activities must be carried out in a competent manner	11
O2 Maintenance of plant and equipment	12
O3 Dust	12
O4 Emergency response	13
O5 Processes and management	13
O6 Waste management	13
O7 Other operating conditions	14
5 MONITORING AND RECORDING CONDITIONS	15
M1 Monitoring records	15
M2 Requirement to monitor concentration of pollutants discharged	15
M3 Testing methods - concentration limits	16
M4 Weather monitoring	16



Environment Protection Licence

Licence - 20593

M5	Recording of pollution complaints	17
M6	Telephone complaints line	17
M7	Noise monitoring	17
6	REPORTING CONDITIONS	18
R1	Annual return documents	18
R2	Notification of environmental harm	19
R3	Written report	19
7	GENERAL CONDITIONS	20
G1	Copy of licence kept at the premises or plant	20
G2	Other general conditions	20
8	SPECIAL CONDITIONS	20
E1	Requirement to Maintain Financial Assurance	20
E2	Claims on Financial Assurance	22
E3	Environmental obligations of licensee	22
	DICTIONARY	24
	General Dictionary	24

Environment Protection Licence

Licence - 20593



Information about this licence

Dictionary

A definition of terms used in the licence can be found in the dictionary at the end of this licence.

Responsibilities of licensee

Separate to the requirements of this licence, general obligations of licensees are set out in the Protection of the Environment Operations Act 1997 ("the Act") and the Regulations made under the Act. These include obligations to:

- ensure persons associated with you comply with this licence, as set out in section 64 of the Act;
- control the pollution of waters and the pollution of air (see for example sections 120 - 132 of the Act);
- report incidents causing or threatening material environmental harm to the environment, as set out in Part 5.7 of the Act.

Variation of licence conditions

The licence holder can apply to vary the conditions of this licence. An application form for this purpose is available from the EPA.

The EPA may also vary the conditions of the licence at any time by written notice without an application being made.

Where a licence has been granted in relation to development which was assessed under the Environmental Planning and Assessment Act 1979 in accordance with the procedures applying to integrated development, the EPA may not impose conditions which are inconsistent with the development consent conditions until the licence is first reviewed under Part 3.6 of the Act.

Duration of licence

This licence will remain in force until the licence is surrendered by the licence holder or until it is suspended or revoked by the EPA or the Minister. A licence may only be surrendered with the written approval of the EPA.

Licence review

The Act requires that the EPA review your licence at least every 5 years after the issue of the licence, as set out in Part 3.6 and Schedule 5 of the Act. You will receive advance notice of the licence review.

Fees and annual return to be sent to the EPA

For each licence fee period you must pay:

- an administrative fee; and
- a load-based fee (if applicable).

Environment Protection Licence

Licence - 20593



The EPA publication “A Guide to Licensing” contains information about how to calculate your licence fees. The licence requires that an Annual Return, comprising a Statement of Compliance and a summary of any monitoring required by the licence (including the recording of complaints), be submitted to the EPA. The Annual Return must be submitted within 60 days after the end of each reporting period. See condition R1 regarding the Annual Return reporting requirements.

Usually the licence fee period is the same as the reporting period.

Transfer of licence

The licence holder can apply to transfer the licence to another person. An application form for this purpose is available from the EPA.

Public register and access to monitoring data

Part 9.5 of the Act requires the EPA to keep a public register of details and decisions of the EPA in relation to, for example:

- licence applications;
- licence conditions and variations;
- statements of compliance;
- load based licensing information; and
- load reduction agreements.

Under s320 of the Act application can be made to the EPA for access to monitoring data which has been submitted to the EPA by licensees.

This licence is issued to:

HI-QUALITY QUARRY (NSW) PTY LTD
PO BOX 42
KEMPS CREEK NSW 2171

subject to the conditions which follow.

Environment Protection Licence

Licence - 20593

1 Administrative Conditions

A1 What the licence authorises and regulates

A1.1 This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, fee-based activity classification and the scale of the operation.

Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition.

Scheduled Activity	Fee Based Activity	Scale
Crushing, grinding or separating	Crushing, grinding or separating	> 100000 - 500000 T annual processing capacity
Extractive activities	Land-based extractive activity	> 50000 - 100000 T annual capacity to extract, process or store
Resource recovery	Recovery of general waste	Any general waste recovered
Waste storage	Waste storage - other types of waste	Any other types of waste stored

A1.2 Notwithstanding A1.1, the scale of the land-based extractive activity authorised under this licence must not exceed 65,000 tonnes per annum, being the amount equivalent to the extraction limit approved by the development consent granted under the *Environmental Planning and Assessment Act 1979* for the premises specified in A2.

A2 Premises or plant to which this licence applies

A2.1 The licence applies to the following premises:

Premises Details
HI QUALITY KEMPS CREEK CENTRAL
1503-1519 ELIZABETH DRIVE
KEMPS CREEK
NSW 2178
LOT 1 DP 1212980

A3 Information supplied to the EPA

A3.1 Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence.

Environment Protection Licence



Licence - 20593

In this condition the reference to "the licence application" includes a reference to:

- a) the applications for any licences (including former pollution control approvals) which this licence replaces under the Protection of the Environment Operations (Savings and Transitional) Regulation 1998; and
- b) the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence.

2 Discharges to Air and Water and Applications to Land

P1 Location of monitoring/discharge points and areas

P1.1 The following points referred to in the table below are identified in this licence for the purposes of monitoring and/or the setting of limits for the emission of pollutants to the air from the point.

<i>Air</i>			
EPA identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
1	Dust Monitoring Gauge		As shown on drawing O/A Site Plan Project P3016 Drawing No. 1549-08 A04 dated 10.03.11
2	Dust Monitoring Gauge		As shown on drawing O/A Site Plan Project P3016 Drawing No. 1549-08 A04 dated 10.03.11
3	Dust Monitoring Gauge		As shown on drawing O/A Site Plan Project P3016 Drawing No. 1549-08 A04 dated 10.03.11
4	Dust Monitoring Gauge		As shown on drawing O/A Site Plan Project P3016 Drawing No. 1549-08 A04 dated 10.03.11
5	Dust Monitoring Gauge		As shown on drawing O/A Site Plan Project P3016 Drawing No. 1549-08 A04 dated 10.03.11
6	Dust Monitoring Gauge		As shown on drawing O/A Site Plan Project P3016 Drawing No. 1549-08 A04 dated 10.03.11

P1.2 The following utilisation areas referred to in the table below are identified in this licence for the purposes of the monitoring and/or the setting of limits for any application of solids or liquids to the utilisation area.

P1.3 The following points referred to in the table are identified in this licence for the purposes of the monitoring and/or the setting of limits for discharges of pollutants to water from the point.

Water and land

Environment Protection Licence



Licence - 20593

EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
8	Discharge to waters	Discharge to waters	Overflow from sediment dam No.2 as identified on the marked up Soil Stormwater Management Plan Final Contours - Discharge Points drawing No. 06337 R Rev C dated 05.09.12
9	Discharge to waters	Discharge to waters	Overflow from sediment dam No.3 as identified on the marked up Soil Stormwater Management Plan Final Contours - Discharge Points drawing No. 06337 R Rev C dated 05.09.12

P1.4 The following points referred to in the table below are identified in this licence for the purposes of weather and/or noise monitoring and/or setting limits for the emission of noise from the premises.

Noise/Weather

EPA identification no.	Type of monitoring point	Location description
7	Meteorological Station	Mounted on weighbridge

3 Limit Conditions

L1 Pollution of waters

L1.1 Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the Protection of the Environment Operations Act 1997.

L2 Concentration limits

L2.1 For each monitoring/discharge point or utilisation area specified in the table\&s below (by a point number), the concentration of a pollutant discharged at that point, or applied to that area, must not exceed the concentration limits specified for that pollutant in the table.

L2.2 Where a pH quality limit is specified in the table, the specified percentage of samples must be within the specified ranges.

L2.3 To avoid any doubt, this condition does not authorise the pollution of waters by any pollutant other than those specified in the table\&s.

L2.4 Water and/or Land Concentration Limits

Environment Protection Licence

Licence - 20593



POINT 8

Pollutant	Units of Measure	50 Percentile concentration limit	90 Percentile concentration limit	3DGM concentration limit	100 percentile concentration limit
pH	pH				6.5-8.5
Total suspended solids	milligrams per litre				50

L3 Waste

L3.1 The licensee must not cause, permit or allow any waste to be received at the premises, except the wastes expressly referred to in the column titled "Waste" and meeting the definition, if any, in the column titled "Description" in the table below.

Any waste received at the premises must only be used for the activities referred to in relation to that waste in the column titled "Activity" in the table below.

Any waste received at the premises is subject to those limits or conditions, if any, referred to in relation to that waste contained in the column titled "Other Limits" in the table below.

This condition does not limit any other conditions in this licence.

Code	Waste	Description	Activity	Other Limits
NA	Virgin excavated natural material	As defined in Schedule 1 of the POEO Act, as in force from time to time.	Waste storage	No more than 8,500 cubic metres may be stored at the premises at any one time.
NA	Building and demolition waste	As defined in Schedule 1 of the POEO Act, as in force from time to time.	Resource recovery Waste storage	No more than 30,000 cubic metres may be stored at the premises at any one time.

L3.2 The authorised amount of waste permitted on the Premises cannot exceed 38,500 tonnes at any one time.

L3.3 Quarry rehabilitation must be carried out in stages. The licensee must provide to the EPA within 2 months of operation a document detailing the stages of quarry rehabilitation and the volume of material required to fill the void at each stage.

L3.4 Overburden from quarrying activities must be used as the primary source of material for the rehabilitation

Environment Protection Licence



Licence - 20593

of the quarry. This must be used prior to using any imported Virgin Excavated Natural Material (VENM) or Excavated Natural Material (ENM) as defined in "The Excavated Natural Material Order 2014" and "The Excavated Natural Material Exemption 2014".

- L3.5 For each area to be rehabilitated, VENM and ENM may only be used to fill in the quarry void only after the depletion of all supplies of overburden.
- L3.6 All VENM or ENM received at the premises must be stockpiled at the premises prior to landfilling for rehabilitation.
- L3.7 Any VENM or ENM stockpiled for each stage of quarry rehabilitation shall not be applied to land without prior written approval from the EPA.
- L3.8 No waste, other than VENM for the purpose of quarry rehabilitation, may be received at the premises.
- L3.9 No waste may be received at the premises for storage and/or processing prior to the construction and completion of the waste processing area.
- L3.10 The licensee must have in place and implement procedures to identify and prevent the acceptance of any waste not permitted by condition L3.1 to be accepted at the premises.
- L3.11 No asbestos waste is to be accepted or stored at the premises.

L4 Noise limits

- L4.1 Noise generated at the premises must not exceed:
 - 41dB(A) LAeq, 15min at 395 Clifton Avenue, Kemps Creek; and
 - 45dB(A) LAeq, 15min at 1495 Elizabeth Drive, Kemps Creek.
- L4.2 Noise from the premises is to be measured at the most affected point within the residential boundary or at the most affected point within 30m of the dwelling (rural situations) where the dwelling is more than 30m from the boundary to determine compliance with the LAeq(15 minute) noise limits in condition L4.1, unless otherwise noted.

Where it can be demonstrated that direct measurement of noise from the premises is impractical, the EPA may accept alternative means of determining compliance. See Chapter 11 of the NSW Industrial Noise Policy (INP).

The modification factors presented in Chapter 4 of the INP shall also be applied to the measured noise levels where applicable.
- L4.3 The noise emission limits identified in L4.1 apply for prevailing meteorological conditions (winds up to 3m/s at 10 metres above ground level), except under conditions of temperature inversion. Noise impacts that may be enhanced by temperature inversions must be addressed by:
 - documenting noise complaints received to identify any higher level of impacts or patterns of temperature inversions; and

Environment Protection Licence



Licence - 20593

- where levels of noise complaints indicate a higher level of impact, then actions to quantify and ameliorate any enhanced impacts under temperature inversions conditions should be developed and implemented.

L4.4 Any diesel power generator located on the premises must be specified with a sound pressure level of less than 75dB(A) at 7 metres distance from the generator and located centrally on the site.

L5 Hours of operation

L5.1 Activities at the premises must only be conducted between:

- 7:00am and 5:00pm Monday to Friday;
- 8:00am to 1:00pm on Saturdays; and
- no works permitted on Sundays or Public Holidays.

L5.2 Notwithstanding the hours specified in Condition L5.1: vehicle movements associated with the office use and trucks returning to the site, are permitted to occur until 6:00pm Monday to Friday.

The operating hours for the office use are as follows:

- 6:00am to 6:00pm Monday to Friday
- 6:00am to 3:00pm Saturday
- Closed Sunday and Public Holidays

L5.3 This condition does not apply to the delivery of material outside the hours of operation permitted by Condition L5.1 if that delivery is required by police or other authorities for safety reasons; and/or the operation or personnel or equipment are endangered. In such circumstances, prior notification is provided to the EPA and affected residents as soon as possible or within a reasonable period in the case of emergency.

L5.4 The hours of operation specified in Condition L5.1 may be varied with written approval from the EPA if the EPA is satisfied that the amenity of the residents in the locality will not be adversely affected.

4 Operating Conditions

O1 Activities must be carried out in a competent manner

O1.1 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

Environment Protection Licence



Licence - 20593

b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.

O2 Maintenance of plant and equipment

- O2.1 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.

O3 Dust

- O3.1 The premises must be maintained in a condition which prevents or minimises the emission of air pollutants, including dust, from the premises.
- O3.2 All activities conducted on the premises must be undertaken by such practical means to avoid or minimise the generation and emission of air pollutants, including dust.
- O3.3 Trucks entering and leaving the premises that are carrying loads must be covered at all times, except during loading and unloading.
- O3.4 Vehicle routes in use on the premises are to be kept damp during hours of operation.
- O3.5 A dust suppression system must be installed including but not limited to a sprinkler system and a water cart prior to the commencement of any operations at the premises.
- O3.6 Dust sprays and/or dust suppression systems must be installed and operated on all crushing, grinding and screening equipment at the premises during hours of operation.
- O3.7 Dust gauge monitoring
- a. Dust gauge monitoring must be conducted on a monthly basis at the 6 monitoring locations as shown on drawing "Option2/ O/A Site Plan - P3016 Drawing No. 1549-08".
 - b. Any exceedance in the results of total dust deposition above the standard criteria in the EPA Approved Method for the Modelling and Assessment of Air Pollutants in New South Wales must be reported to the EPA within 48 hours from the time the licensee became aware of it.
- O3.8 Air quality monitoring - 13 months period
- a. Conduct air quality monitoring for a continuous 13-month period using an appropriate air monitoring method, undertaken in accordance with an appropriate EPA-published method or Australian Standard with data collected from a variety of sources, which are monitored on a regular basis including, but not limited to:
 - i. Meteorological monitoring (including wind)
 - ii. High Definition Video monitoring
 - iii. Field survey records/ boundary checks
 - iv. Stakeholder surveys/ dust diaries

Environment Protection Licence



Licence - 20593

- b. Provide the EPA with three air monitoring reports at the following stages:
 - i. 1 month prior to commencing scheduled activities of Resource Recovery, waste storage, crushing, grinding and screening
 - ii. 6 months after commencing scheduled activities of Resource Recovery, waste storage, crushing, grinding and screening;
 - iii. 12 months after commencing scheduled activities of Resource Recovery, waste storage, crushing, grinding and screening.
- c. The reports must include all continuous monitoring data and compared against relevant criteria.

O4 Emergency response

- O4.1 Within three months of the issue of this licence the licensee must prepare, maintain and implement as necessary, a current Pollution Incident Response Management Plan (PIRMP) for the premises.
NOTE: The licensee must develop their PIRMP in accordance with the requirements in Part 5.7A of the Protection of the Environment Operations Act 1997 (the POEO Act) and the POEO Regulations.

O5 Processes and management

- O5.1 The licensee must take all practicable steps to control entry to the premises.
- O5.2 The Licensee must not allow the tracking of mud by vehicles leaving the premises.
- O5.3 The Licensee must ensure that all waste stored or processed at the premises is assessed and classified in accordance with the EPA Waste Classification Guidelines as in force from time to time.
- O5.4 All stormwater and stormwater treatment devices (including drainage systems, sumps and traps) must be regularly maintained.

O6 Waste management

Weighbridge Operation

- O6.1 The Licensee must install, maintain and operate a calibrated weighbridge to record the volume of all waste brought into the premises.
- O6.2 All vehicles entering and exiting the premises must be recorded as they pass across the weighbridges or pass through a dedicated vehicle access point that has video monitoring and electronic recorded 'boom gates'.
- O6.3 Stockpile heights must not exceed 8 metres (m).
- O6.4 Each stockpile must have a stockpile height marker permanently installed that is clearly visible and shows the 8 metres (m) height limit from ground level.

Environment Protection Licence

Licence - 20593



O7 Other operating conditions

Stormwater/Sediment Control - Construction Phase

- O7.1 All erosion and sediment controls must be installed on the premises prior to any construction work or clearing taking place. The sediment controls must be inspected after each rain event and repaired if required.
- O7.2 All vehicle entry and exit points to the premises must be sealed including internal roadways to and from the weighbridge prior to 1 December 2016.
- O7.3 An appropriate wheel wash facility must be installed, maintained and operated on the premises prior to any construction work, clearing or operations taking place. Appropriate measures must be put in place to ensure that all vehicular traffic leaving the premises must pass through the wash bay.

Stormwater/Sediment Control - Operation Phase

- O7.4 Within 3 months of the issue of this licence a Stormwater Management Program must be prepared for the development and must be implemented. Implementation of the Program must mitigate the impacts of stormwater run-off from and within the premises following the completion of construction rehabilitation activities.
- O7.5 All erosion and sediment controls must be installed and maintained on the premises. The controls must be inspected after each rain event and repaired if required.
- O7.6 All catchment/sediment dams must meet the specifications outlined in the EIS.
- O7.7 The Licensee must ensure that all surface water runoff is collected on site and drains to a leachate storage pond.
- O7.8 Sediment and stormwater storage must be designed, maintained and operated with adequate capacity to store surface water collected on site.
- O7.9 Wheel wash must be installed, maintained and operated on each exit of the premises.
- O7.10 All vehicles associated with waste or quarrying activities leaving the premises must pass through the wheel wash before exiting the Premises.
- O7.11 High noise impact plant and equipment
All plant and equipment with high noise impacts must have the exhaust fitted with high performance acoustic mufflers.

Environment Protection Licence

Licence - 20593



O7.12 High wind speed

If the wind speed is greater than 7 meters/second the licensee must immediately cease dust-generating activities.

Staff Training

O7.13 The Licensee must ensure that adequately trained staff are available at the premises in order to administer the requirements of this licence.

5 Monitoring and Recording Conditions

M1 Monitoring records

M1.1 The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.

M1.2 All records required to be kept by this licence must be:

- in a legible form, or in a form that can readily be reduced to a legible form;
- kept for at least 4 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.

M1.3 The following records must be kept in respect of any samples required to be collected for the purposes of this licence:

- 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.

M2 Requirement to monitor concentration of pollutants discharged

M2.1 For each monitoring/discharge point or utilisation area specified below (by a point number), the licensee must monitor (by sampling and obtaining results by analysis) the concentration of each pollutant specified in Column 1. The licensee must use the sampling method, units of measure, and sample at the frequency, specified opposite in the other columns:

M2.2 Air Monitoring Requirements

POINT 1,2,3,4,5,6

Pollutant	Units of measure	Frequency	Sampling Method
Particulates - Deposited Matter	grams per square metre per month	Continuous	AM-19

Environment Protection Licence



Licence - 20593

M2.3 Water and/ or Land Monitoring Requirements

POINT 8

Pollutant	Units of measure	Frequency	Sampling Method
pH	pH	Daily during any discharge	Grab sample
Total suspended solids	milligrams per litre	Daily during any discharge	Grab sample

M3 Testing methods - concentration limits

- M3.1 Monitoring for the concentration of a pollutant emitted to the air required to be conducted by this licence must be done in accordance with:
- any methodology which is required by or under the Act to be used for the testing of the concentration of the pollutant; or
 - if no such requirement is imposed by or under the Act, any methodology which a condition of this licence requires to be used for that testing; or
 - if no such requirement is imposed by or under the Act or by a condition of this licence, any methodology approved in writing by the EPA for the purposes of that testing prior to the testing taking place.

Note: The *Protection of the Environment Operations (Clean Air) Regulation 2010* requires testing for certain purposes to be conducted in accordance with test methods contained in the publication "Approved Methods for the Sampling and Analysis of Air Pollutants in NSW".

- M3.2 Subject to any express provision to the contrary in this licence, monitoring for the concentration of a pollutant discharged to waters or applied to a utilisation area must be done in accordance with the Approved Methods Publication unless another method has been approved by the EPA in writing before any tests are conducted.

M4 Weather monitoring

- M4.1 At the point(s) identified below, the licensee must monitor (by sampling and obtaining results by analysis) the parameters specified in Column 1 of the table below, using the corresponding sampling method, units of measure, averaging period and sampling frequency, specified opposite in the Columns 2, 3, 4 and 5 respectively.

Environment Protection Licence

Licence - 20593



POINT 1

Parameter	Sampling method	Units of measure	Averaging period	Frequency
Temperature at 10 metres	AM-4	degrees Celsius	1 hour	Continuous
Wind Direction at 10 metres	AM-2 & AM-4	-	15 minutes	Continuous
Wind Speed	AM-2 & AM-4	metres per second	15 minutes	Continuous
Sigma Theta	AM-2 & AM-4	-	15 minutes	Continuous
Rainfall	AM-4	millimetres	24 hours	Continuous

M5 Recording of pollution complaints

M5.1 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.

M5.2 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.

M5.3 The record of a complaint must be kept for at least 4 years after the complaint was made.

M5.4 The record must be produced to any authorised officer of the EPA who asks to see them.

M6 Telephone complaints line

M6.1 The licensee must operate during its operating hours a 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.

M6.2 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.

M6.3 The preceding two conditions do not apply until 3 months after the date of the issue of this licence.

M7 Noise monitoring

Environment Protection Licence



Licence - 20593

- M7.1 The licensee must conduct attended and unattended noise monitoring during normal operations of the plant once every six months (and shortly after commencement of operations as well). Normal operations must include all activities conducted on site. The noise monitoring must be conducted for at least 24 hours to determine the noise as LAeq,15 minutes for the three different periods, day, evening and nights as specified in the EPA's Industrial Noise Policy.
- M7.2 The results of the noise monitoring must be reported to the EPA within 28 days from the monitoring completion date and must be presented in a legible form. Any exceedances of the limits specified in condition L6.1 must be included in the report. For these exceedances, if any, the licensee must include proposed noise mitigation measures to be implemented on site to prevent recurrence of such exceedances. These non-compliances must still be reported in the Annual Return with any other non-compliance.
- M7.3 Following the first 12 months of noise monitoring, the EPA will review the results to determine whether further monitoring is required. Relevant conditions will be attached to the company's licence.

6 Reporting Conditions

R1 Annual return documents

- R1.1 The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:
1. a Statement of Compliance,
 2. a Monitoring and Complaints Summary,
 3. a Statement of Compliance - Licence Conditions,
 4. a Statement of Compliance - Load based Fee,
 5. a Statement of Compliance - Requirement to Prepare Pollution Incident Response Management Plan,
 6. a Statement of Compliance - Requirement to Publish Pollution Monitoring Data; and
 7. a Statement of Compliance - Environmental Management Systems and Practices.

At 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.

- R1.2 An Annual Return must be prepared in respect of each reporting period, 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.

- R1.3 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.

Environment Protection Licence



Licence - 20593

- R1.4 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.
- R1.5 The Annual Return for the reporting period must be supplied to the EPA via eConnect *EPA* or 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').
- R1.6 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.
- R1.7 Within the Annual Return, the Statements 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.

R2 Notification of environmental harm

- R2.1 Notifications must be made by telephoning the Environment Line service on 131 555.

Note: The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.

- R2.2 The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred.

R3 Written report

- R3.1 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.
- R3.2 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.
- R3.3 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

Environment Protection Licence

Licence - 20593



- specified class of them, who witnessed the event;
- 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; and
- g) any other relevant matters.

R3.4 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.

7 General Conditions

G1 Copy of licence kept at the premises or plant

- G1.1 A copy of this licence must be kept at the premises to which the licence applies.
- G1.2 The licence must be produced to any authorised officer of the EPA who asks to see it.
- G1.3 The licence must be available for inspection by any employee or agent of the licensee working at the premises.

G2 Other general conditions

- G2.1 The bunding of workshops, wash bay, refueling area and chemicals must be in accordance with the information provided in the following drawings:
 - Weigh Bridge Office Drawing No. 1549-08 sheet A03 issue D, dated 4 August 2009. Drawn by Algorry Zappia & Associates Pty Ltd for Hi-Quality Quarry (NSW) Pty Ltd.
 - Site/Ground Floor Plan Drawing No. 1549-08 sheet A01 issue E, dated 4 August 2009. Drawn by Algorry Zappia & Associates Pty Ltd for Hi-Quality Quarry (NSW) Pty Ltd.
- G2.2 The extraction activities must not impede into the groundwater table at any time and there must be a minimum of one metre of groundcover at all times between the floor of the quarry void and the highest level of the groundwater table.

8 Special Conditions

E1 Requirement to Maintain Financial Assurance

Environment Protection Licence



Licence - 20593

- E1.1 Prior to the issue of the licence the licensee must provide to the EPA a financial assurance in the form of an unconditional and irrevocable guarantee from an Australian bank, building society or credit union operating as "Authorised Deposit-taking Institutions" under the Banking Act 1959 of the Commonwealth of Australia and supervised by the Australian Prudential Regulatory Authority (APRA) has been provided to the EPA and must be maintained. The financial assurance is in favour of the EPA for a total amount to be held by the EPA of one hundred thousand dollars (\$100,000). The financial assurance is required to secure or guarantee funding for works or programs required by or under this licence. The financial assurance contains a term that provides that any monies claimed can be paid to the EPA or, at the written direction of the EPA, to any other person.
- E1.2 Within 6 months of the relevant scheduled activity being reinstated on the licence, the licensee must provide to the EPA a financial assurance in the form of an unconditional and irrevocable guarantee from an Australian bank, building society or credit union operating as "Authorised Deposit-taking Institutions" under the Banking Act 1959 of the Commonwealth of Australia and supervised by the Australian Prudential Regulatory Authority (APRA) to replace the financial assurance referred to in the previous condition. The financial assurance must be in favour of the EPA for a total amount to be held by the EPA of two hundred thousand dollars (\$200,000). The financial assurance is required to secure or guarantee funding for works or programs required by or under this licence. The financial assurance contains a term that provides that any monies claimed can be paid to the EPA or, at the written direction of the EPA, to any other person.
Note: This condition is not force until written confirmation is received from the EPA and the relevant scheduled activity reinstated on the licence.
- E1.3 Within 12 months of the relevant scheduled activity being reinstated on the licence, the licensee must provide to the EPA a financial assurance in the form of an unconditional and irrevocable guarantee from an Australian bank, building society or credit union operating as "Authorised Deposit-taking Institutions" under the Banking Act 1959 of the Commonwealth of Australia and supervised by the Australian Prudential Regulatory Authority (APRA) to replace the financial assurance referred to in the previous condition. The financial assurance must be in favour of the EPA for a total amount to be held by the EPA of three hundred thousand dollars (\$300,000). The financial assurance is required to secure or guarantee funding for works or programs required by or under this licence. The financial assurance contains a term that provides that any monies claimed can be paid to the EPA or, at the written direction of the EPA, to any other person.
Note: This condition is not force until written confirmation is received from the EPA and the relevant scheduled activity reinstated on the licence.
- E1.4 An adjustment to the financial assurance must be calculated each licence review period, in line with the Consumer Price Index (CPI), for the number of years since the financial assurance was last paid. The financial assurance must be replenished to the full amount plus CPI adjustments each licence review period.
- E1.5 The financial assurance must be replenished by the full amount claimed or realised if the EPA has claimed on or realised the financial assurance or any part of it to undertake a work or program required to be carried out by the licence which has not been undertaken by the licence holder.
- E1.6 The financial assurance must be maintained during the operation of the facility and thereafter until such time as the EPA is satisfied the premises is environmentally secure.

Environment Protection Licence



Licence - 20593

- E1.7 The EPA may require an increase in the amount of the financial assurance at any time as a result of the reassessment of the total likely costs and expenses of rehabilitation of the premises.
- E1.8 The licensee must provide to the EPA the original counterpart guarantee within five working days of the issue of:
 - a) the financial assurance being required by Condition E1.1, or
 - b) the adjusted financial assurance as required by Condition E1.2 and E1.3.

E2 Claims on Financial Assurance

- E2.1 The EPA may claim on a financial assurance under s303 of the POEO Act if a licensee fails to carry out any work or program required to comply with the conditions of this licence.

E3 Environmental obligations of licensee

- E3.1 After the licensee's premises cease to be used for the purpose to which the licence relates or in the event that the licensee ceases to carry out the activity that is the subject of this licence, that licensee must:
 - a) remove and lawfully dispose of all liquid and non-liquid waste stored on the licensee's premises; and
 - b) rehabilitate the site, including conducting an assessment of and if required remediation of any site contamination.
- E3.2 In the event of an earthquake, storm, fire, flood or any other event where it is reasonable to suspect that a pollution incident has occurred, is occurring or is likely to occur, the licensee (whether or not the premises continue to be used for the purposes to which the licence relates) must:
 - a) make all efforts to contain all firewater on the licensee's premises,
 - b) make all efforts to control air pollution from the licensee's premises,
 - c) make all efforts to contain any discharge, spill or run-off from the licensee's premises,
 - d) make all efforts to prevent flood water entering the licensee's premises,
 - e) remediate and rehabilitate any exposed areas of soil and/or waste,
 - f) lawfully dispose of all liquid and solid waste(s) stored on the premises that is not already securely disposed of,
 - g) at the request of the EPA monitor groundwater beneath the licensee's premises and its potential to migrate from the licensee's premises,
 - h) at the request of the EPA monitor surface water leaving the licensee's premises; and
 - i) ensure the licensee's premises is secure.
- E3.3 While the licensee's premises are being used for the purpose to which the licence relates, the licensee must:
 - a) Clean up any spill, leak or other discharge of any waste(s) or other material(s) as soon as practicable after it becomes known to the licensee or to one of the licensee's employees or agents.
 - b) In the event(s) that any liquid and non-liquid waste(s) is unlawfully deposited on the premises, such

Environment Protection Licence

Licence - 20593



waste(s) must be removed and lawfully disposed of as soon as practicable or in accordance with any direction given by the EPA.

c) Provide all monitoring data as required by the conditions of this licence or as directed by the EPA.

Environment Protection Licence

Licence - 20593

Dictionary

General Dictionary

3DGM [in relation to a concentration limit]	Means the three day geometric mean, which is calculated by multiplying the results of the analysis of three samples collected on consecutive days and then taking the cubed root of that amount. Where one or more of the samples is zero or below the detection limit for the analysis, then 1 or the detection limit respectively should be used in place of those samples
Act	Means the Protection of the Environment Operations Act 1997
activity	Means a scheduled or non-scheduled activity within the meaning of the Protection of the Environment Operations Act 1997
actual load	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
AM	Together with a number, means an ambient air monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
AMG	Australian Map Grid
anniversary date	The anniversary date is the anniversary each year of the date of issue of the licence. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
annual return	Is defined in R1.1
Approved Methods Publication	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
assessable pollutants	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
BOD	Means biochemical oxygen demand
CEM	Together with a number, means a continuous emission monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
COD	Means chemical oxygen demand
composite sample	Unless otherwise specifically approved in writing by the EPA, a sample consisting of 24 individual samples collected at hourly intervals and each having an equivalent volume.
cond.	Means conductivity
environment	Has the same meaning as in the Protection of the Environment Operations Act 1997
environment protection legislation	Has the same meaning as in the Protection of the Environment Administration Act 1991
EPA	Means Environment Protection Authority of New South Wales.
fee-based activity classification	Means the numbered short descriptions in Schedule 1 of the Protection of the Environment Operations (General) Regulation 2009.
general solid waste (non-putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997

Environment Protection Licence

Licence - 20593

flow weighted composite sample	Means a sample whose composites are sized in proportion to the flow at each composites time of collection.
general solid waste (putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
grab sample	Means a single sample taken at a point at a single time
hazardous waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
licensee	Means the licence holder described at the front of this licence
load calculation protocol	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
local authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
material harm	Has the same meaning as in section 147 Protection of the Environment Operations Act 1997
MBAS	Means methylene blue active substances
Minister	Means the Minister administering the Protection of the Environment Operations Act 1997
mobile plant	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
motor vehicle	Has the same meaning as in the Protection of the Environment Operations Act 1997
O&G	Means oil and grease
percentile [in relation to a concentration limit of a sample]	Means that percentage [eg.50%] of the number of samples taken that must meet the concentration limit specified in the licence for that pollutant over a specified period of time. In this licence, the specified period of time is the Reporting Period unless otherwise stated in this licence.
plant	Includes all plant within the meaning of the Protection of the Environment Operations Act 1997 as well as motor vehicles.
pollution of waters [or water pollution]	Has the same meaning as in the Protection of the Environment Operations Act 1997
premises	Means the premises described in condition A2.1
public authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
regional office	Means the relevant EPA office referred to in the Contacting the EPA document accompanying this licence
reporting period	For the purposes of this licence, the reporting period means the period of 12 months after the issue of the licence, and each subsequent period of 12 months. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
restricted solid waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
scheduled activity	Means an activity listed in Schedule 1 of the Protection of the Environment Operations Act 1997
special waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
TM	Together with a number, means a test method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .

Environment Protection Licence

Licence - 20593

TSP	Means total suspended particles
TSS	Means total suspended solids
Type 1 substance	Means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or more of those elements
Type 2 substance	Means the elements beryllium, chromium, cobalt, manganese, nickel, selenium, tin or vanadium or any compound containing one or more of those elements
utilisation area	Means any area shown as a utilisation area on a map submitted with the application for this licence
waste	Has the same meaning as in the Protection of the Environment Operations Act 1997
waste type	Means liquid, restricted solid waste, general solid waste (putrescible), general solid waste (non - putrescible), special waste or hazardous waste

Ms Ruth Owler

Environment Protection Authority

(By Delegation)

Date of this edition: 20-December-2016

End Notes

2 Licence varied by notice 1589560 issued on 20-Dec-2019

Environment Protection Licence

Licence - 20937

Licence Details	
Number:	20937
Anniversary Date:	09-May

Licensee
CLEANAWAY RESOURCECO RRF PTY LTD
35-37 FRANK ST
WETHERILL PARK NSW 2164

Premises
RESOURCECO
35-37 FRANK STREET
WETHERILL PARK NSW 2164

Scheduled Activity
Resource recovery
Waste storage

Fee Based Activity	Scale
Recovery of general waste	Any general waste recovered
Waste storage - other types of waste	Any other types of waste stored

Region
Waste & Resource Recovery
59-61 Goulburn Street
SYDNEY NSW 2000
Phone: (02) 9995 5000
Fax: (02) 9995 5999
PO Box A290
SYDNEY SOUTH NSW 1232



Environment Protection Licence

Licence - 20937

INFORMATION ABOUT THIS LICENCE	4
Dictionary	4
Responsibilities of licensee	4
Variation of licence conditions	4
Duration of licence	4
Licence review	4
Fees and annual return to be sent to the EPA	4
Transfer of licence	5
Public register and access to monitoring data	5
1 ADMINISTRATIVE CONDITIONS	6
A1 What the licence authorises and regulates	6
A2 Premises or plant to which this licence applies	6
A3 Information supplied to the EPA	6
2 LIMIT CONDITIONS	7
L1 Pollution of waters	7
L2 Waste	7
L3 Noise limits	8
L4 Hours of operation	9
L5 Potentially offensive odour	10
3 OPERATING CONDITIONS	10
O1 Activities must be carried out in a competent manner	10
O2 Maintenance of plant and equipment	10
O3 Dust	11
O4 Emergency response	11
O5 Other operating conditions	11
4 MONITORING AND RECORDING CONDITIONS	11
M1 Monitoring records	11
M2 Recording of pollution complaints	12
M3 Telephone complaints line	12
5 REPORTING CONDITIONS	13
R1 Annual return documents	13
R2 Notification of environmental harm	14
R3 Written report	14
6 GENERAL CONDITIONS	15



Environment Protection Licence

Licence - 20937

G1	Copy of licence kept at the premises or plant -----	15
7	SPECIAL CONDITIONS -----	15
E1	Financial Assurance -----	15
E2	Environmental Obligations of Licensee -----	15
DICTIONARY	-----	17
	General Dictionary -----	17

Environment Protection Licence

Licence - 20937



Information about this licence

Dictionary

A definition of terms used in the licence can be found in the dictionary at the end of this licence.

Responsibilities of licensee

Separate to the requirements of this licence, general obligations of licensees are set out in the Protection of the Environment Operations Act 1997 ("the Act") and the Regulations made under the Act. These include obligations to:

- ensure persons associated with you comply with this licence, as set out in section 64 of the Act;
- control the pollution of waters and the pollution of air (see for example sections 120 - 132 of the Act);
- report incidents causing or threatening material environmental harm to the environment, as set out in Part 5.7 of the Act.

Variation of licence conditions

The licence holder can apply to vary the conditions of this licence. An application form for this purpose is available from the EPA.

The EPA may also vary the conditions of the licence at any time by written notice without an application being made.

Where a licence has been granted in relation to development which was assessed under the Environmental Planning and Assessment Act 1979 in accordance with the procedures applying to integrated development, the EPA may not impose conditions which are inconsistent with the development consent conditions until the licence is first reviewed under Part 3.6 of the Act.

Duration of licence

This licence will remain in force until the licence is surrendered by the licence holder or until it is suspended or revoked by the EPA or the Minister. A licence may only be surrendered with the written approval of the EPA.

Licence review

The Act requires that the EPA review your licence at least every 5 years after the issue of the licence, as set out in Part 3.6 and Schedule 5 of the Act. You will receive advance notice of the licence review.

Fees and annual return to be sent to the EPA

For each licence fee period you must pay:

- an administrative fee; and
- a load-based fee (if applicable).

Environment Protection Licence



Licence - 20937

The EPA publication “A Guide to Licensing” contains information about how to calculate your licence fees. The licence requires that an Annual Return, comprising a Statement of Compliance and a summary of any monitoring required by the licence (including the recording of complaints), be submitted to the EPA. The Annual Return must be submitted within 60 days after the end of each reporting period. See condition R1 regarding the Annual Return reporting requirements.

Usually the licence fee period is the same as the reporting period.

Transfer of licence

The licence holder can apply to transfer the licence to another person. An application form for this purpose is available from the EPA.

Public register and access to monitoring data

Part 9.5 of the Act requires the EPA to keep a public register of details and decisions of the EPA in relation to, for example:

- licence applications;
- licence conditions and variations;
- statements of compliance;
- load based licensing information; and
- load reduction agreements.

Under s320 of the Act application can be made to the EPA for access to monitoring data which has been submitted to the EPA by licensees.

This licence is issued to:

CLEANAWAY RESOURCECO RRF PTY LTD
35-37 FRANK ST
WETHERILL PARK NSW 2164

subject to the conditions which follow.

Environment Protection Licence

Licence - 20937

1 Administrative Conditions

A1 What the licence authorises and regulates

A1.1 This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, fee-based activity classification and the scale of the operation.

Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition.

Scheduled Activity	Fee Based Activity	Scale
Resource recovery	Recovery of general waste	Any general waste recovered
Waste storage	Waste storage - other types of waste	Any other types of waste stored

A2 Premises or plant to which this licence applies

A2.1 The licence applies to the following premises:

Premises Details
RESOURCECO
35-37 FRANK STREET
WETHERILL PARK
NSW 2164
LOT 31 DP 589097

A3 Information supplied to the EPA

A3.1 Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence.

In this condition the reference to "the licence application" includes a reference to:

- a) the applications for any licences (including former pollution control approvals) which this licence replaces under the Protection of the Environment Operations (Savings and Transitional) Regulation 1998; and
- b) the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence.

Environment Protection Licence

Licence - 20937

2 Limit Conditions

L1 Pollution of waters

L1.1 Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the Protection of the Environment Operations Act 1997.

L2 Waste

L2.1 The licensee must not cause, permit or allow any waste to be received at the premises, except the wastes expressly referred to in the column titled "Waste" and meeting the definition, if any, in the column titled "Description" in the table below.

Any waste received at the premises must only be used for the activities referred to in relation to that waste in the column titled "Activity" in the table below.

Any waste received at the premises is subject to those limits or conditions, if any, referred to in relation to that waste contained in the column titled "Other Limits" in the table below.

This condition does not limit any other conditions in this licence.

Code	Waste	Description	Activity	Other Limits
NA	General solid waste (non-putrescible)	Dry commercial and industrial waste from the Barangaroo South Precinct as described in the Barangaroo South Operational Waste Management Plan – July 2018.	Resource recovery Waste storage	Maximum of 1000 tonnes to be received at the premises in any 12 month period.
NA	Synthetic fibre waste (from materials such as fibreglass, polyesters and other plastics), but excluding asbestos waste		Resource recovery Waste storage	
NA	Wood waste		Resource recovery Waste storage	
NA	Glass, plastic, rubber, plasterboard, ceramics, bricks, concrete or metal		Resource recovery Waste storage	
NA	Paper or cardboard		Resource recovery Waste storage	
NA	Building and demolition waste	As defined in Schedule 1 of the POEO Act, in force from time to time.	Resource recovery Waste storage	

L2.2 The authorised amount of waste permitted on the Premises cannot exceed 7,000 tonnes at any one time.

L2.3 All processed and unprocessed waste must be stored within the building. Processed, wrapped and baled PEF may be stored outside in the designated area to the south of the baler (As marked by the grid in the

Environment Protection Licence



Licence - 20937

site plan of Appendix A of "ResourceCo RRF Pty Ltd Operational Environmental Management Plan Wetherill Park RRF" dated March 2018 (EPA ref DOC18/171623)).

- L2.4 The total amount of waste received at the premises must not exceed 250,000 tonnes per annum.
- L2.5 Incoming waste must only be transported to the Premises from pre-qualified customers as per Section 6.2.3 of the "ResourceCo RRF Pty Ltd Operational Environmental Management Plan Wetherill Park RRF" dated March 2018 (EPA ref DOC18/171623)).
- L2.6 Incoming waste must comply with resource recovery criteria in specified in Table 1 of the EPA's *Energy from Waste Policy Statement* for each waste stream.
- L2.7 Approval in writing must be sought from the EPA to receive "Mixed commercial and industrial waste" with "No limit by weight..." under Table 1 of the NSW EPA's "NSW Energy from Waste Policy Statement".

L3 Noise limits

- L3.1 Noise generated at the Premises must not exceed the noise limits in the Table below.

Location	Day LAeq (15 minute)	Evening LAeq (15 minute)	Night LAeq (15 minute)	Night LA1 (1 minute)
Any residential receiver not associated with the Premises	35 dB(A)	35 dB(A)	35 dB(A)	45 dB(A)

- L3.2 For the purpose of condition L3.1;
- Day is defined as the period from 7am to 6pm Monday to Saturday and 8am to 6pm Sunday and Public Holidays.
 - Evening is defined as the period 6pm to 10pm.
 - Night is defined as the period from 10pm to 7am Monday to Saturday and 10pm to 8am Sunday and Public Holidays.
- L3.3 The noise limits set out in condition L3.1 apply under all meteorological conditions except for the following:
- Wind speeds greater than 3 metres/second at 10 metres above ground level.
 - Stability category F temperature inversion conditions and wind speeds greater than 2 metres/second at 10 metres above ground level; or
 - Stability category G temperature inversion conditions.
- L3.4 For the purposes of condition L3.3:
- Data recorded by a meteorological station installed on the Premises must be used to determine
 - meteorological conditions; and

Environment Protection Licence



Licence - 20937

- Temperature inversion conditions (stability category) are to be determined by the sigma-theta method referred to in Part E4 of Appendix E to the *NSW Industrial Noise Policy*.

L3.5 To determine compliance:

a) with the Leq(15 minute) noise limits in condition L3.1, the noise measurement equipment must be located:

- approximately on the property boundary, where any dwelling is situated 30 metres or less from the property boundary closest to the Premises; or
- within 30 metres of a dwelling façade, but not closer than 3m, where any dwelling on the property is situated more than 30 metres from the property boundary closest to the Premises; or, where applicable
- within approximately 50 metres of the boundary of a National Park or a Nature Reserve.

b) with the LA1(1 minute) noise limits in condition L3.1, the noise measurement equipment must be located within 1 metre of a dwelling façade.

c) with the noise limits in condition L6.1, the noise measurement equipment must be located:

- at the most affected point at a location where there is no dwelling at the location; or
- at the most affected point within an area at a location prescribed by conditions L3.5(a) or L3.5(b).

L3.6 A non-compliance of condition L3.1 will still occur where noise generated from the Premises in excess of the appropriate limit is measured:

- at a location other than an area prescribed by conditions L3.5(a) and L3.5(b); and/or
- at a point other than the most affected point at a location.

L3.7 For the purposes of determining the noise generated at the Premises the modification factors in Section 4 of the *NSW Industrial Noise Policy* must be applied, as appropriate, to the noise levels measured by the noise monitoring equipment.

Note: **Definitions**

- NSW Industrial Noise Policy - the document entitled "*New South Wales Industrial Noise Policy*" published by the Environment Protection Authority in January 2000.
- Noise – 'sound pressure levels' for the purposes of conditions L3.1 to L3.7.

L4 Hours of operation

L4.1 Construction works must only be undertaken:

- between the hours of 7:00am and 6:00pm Monday to Friday;

Environment Protection Licence

Licence - 20937

- between the hours of 8:00am and 1:00pm on Saturdays; and
- at no time on Sundays or public holidays.

L4.2 Works outside of the hours identified in condition L4.1 may be undertaken in the following circumstances:

- works that are inaudible at the nearest receivers;
- works agreed to in writing by the Secretary;
- for the delivery of materials required outside these hours by the NSW Police Force or other authorities for safety reasons;
- Where it is required in an emergency to avoid the loss of lives, property and/or to prevent environmental harm.

L4.3 Activities on the Premises are permitted between the following hours:

Activity	Day	Time
Operation	Monday-Sunday	24 Hours

L5 Potentially offensive odour

L5.1 No condition of this licence identifies a potentially offensive odour for the purpose of Section 129 of the Protection of the Environment Operations Act 1997.

Note: Section 129 of the Protection of the Environment Operations Act 1997, provides that the licensee must not cause or permit the emission of any offensive odour from the premises but provides a defence if the emission is identified in the relevant environment protection licence as a potentially offensive odour and the odour was emitted in accordance with conditions of licence directed at minimising odour.

3 Operating Conditions

O1 Activities must be carried out in a competent manner

O1.1 Licensed activities must be carried out in a competent manner.

This includes:

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

O2 Maintenance of plant and equipment

Environment Protection Licence



Licence - 20937

- O2.1 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.

O3 Dust

- O3.1 Activities occurring in or on the Premises must be carried out in a manner that prevents or minimises the generation of dust.
- O3.2 The Premises must be maintained in a condition which prevents or minimises the emission of dust from the Premises.
- O3.3 The licensee must ensure no visible dust leaves the Premises.
- O3.4 The licensee must ensure that no material, including sediment or oil, is tracked from the Premises.

O4 Emergency response

- O4.1 The licensee must prepare, maintain and implement as necessary, a current Pollution Incident Response Management Plan (PIRMP) for the premises.
- NOTE: The licensee must develop their PIRMP in accordance with the requirements in Part 5.7A of the Protection of the Environment Operations Act 1997 (the POEO Act) and the POEO Regulations.

O5 Other operating conditions

- O5.1 Operations at the Premises must be undertaken in accordance with the "*ResourceCo RRF Pty Ltd Operational Environmental Management Plan Wetherill Park RRF*" dated March 2018 (EPA ref DOC18/171623).
- O5.2 By no later than **5 October 2018**, the Applicant must engage a suitably qualified person to undertake an audit of the "*ResourceCo RRF Pty Ltd Operational Environmental Management Plan Wetherill Park RRF*" dated March 2018 (EPA ref DOC18/171623). A report detailing the outcomes of the audit must be submitted to the EPA by no later than **7 December 2018**.
- O5.3 Operations at the Premises must be undertaken in accordance with the "*ResourceCo RRF Pty Ltd Energy from Waste Management Plan Wetherill Park RRF*" dated March 2018 (EPA ref DOC18/171577).

4 Monitoring and Recording Conditions

M1 Monitoring records

- M1.1 The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.

Environment Protection Licence



Licence - 20937

- M1.2 All records required to be kept by this licence must be:
- in a legible form, or in a form that can readily be reduced to a legible form;
 - kept for at least 4 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.
- M1.3 The following records must be kept in respect of any samples required to be collected for the purposes of this licence:
- 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.

M2 Recording of pollution complaints

- M2.1 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.
- M2.2 The record must include details of the following:
- the date and time of the complaint;
 - the method by which the complaint was made;
 - any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect;
 - the nature of the complaint;
 - the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and
 - if no action was taken by the licensee, the reasons why no action was taken.
- M2.3 The record of a complaint must be kept for at least 4 years after the complaint was made.
- M2.4 The record must be produced to any authorised officer of the EPA who asks to see them.

M3 Telephone complaints line

- M3.1 The licensee must operate during its operating hours a 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.
- M3.2 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.
- M3.3 The preceding two conditions do not apply until after the date of the issue of this licence.

Environment Protection Licence



Licence - 20937

5 Reporting Conditions

R1 Annual return documents

R1.1 The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:

1. a Statement of Compliance,
2. a Monitoring and Complaints Summary,
3. a Statement of Compliance - Licence Conditions,
4. a Statement of Compliance - Load based Fee,
5. a Statement of Compliance - Requirement to Prepare Pollution Incident Response Management Plan,
6. a Statement of Compliance - Requirement to Publish Pollution Monitoring Data; and
7. a Statement of Compliance - Environmental Management Systems and Practices.

At 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.

R1.2 An Annual Return must be prepared in respect of each reporting period, 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.

R1.3 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.

R1.4 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.

R1.5 The Annual Return for the reporting period must be supplied to the EPA via eConnect *EPA* or 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').

R1.6 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.

R1.7 Within the Annual Return, the Statements 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.

Environment Protection Licence



Licence - 20937

R2 Notification of environmental harm

R2.1 Notifications must be made by telephoning the Environment Line service on 131 555.

Note: The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.

R2.2 The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred.

R3 Written report

R3.1 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.

R3.2 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.

R3.3 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;
- 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; and
- g) any other relevant matters.

R3.4 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.

6 General Conditions

Environment Protection Licence



Licence - 20937

G1 Copy of licence kept at the premises or plant

- G1.1 A copy of this licence must be kept at the premises to which the licence applies.
- G1.2 The licence must be produced to any authorised officer of the EPA who asks to see it.
- G1.3 The licence must be available for inspection by any employee or agent of the licensee working at the premises.

7 Special Conditions

E1 Financial Assurance

- E1.1 A financial assurance in the form of an unconditional and irrevocable and on demand guarantee from a bank, building society or credit union operating in Australia as "Authorised Deposit-taking Institutions" under the *Banking Act 1959* of the Commonwealth of Australia and supervised by the Australian Prudential Regulatory Authority (APRA) must be provided to the EPA.
- E1.2 The financial assurance must be in favour of the Environment Protection Authority in the amount of five hundred thousand dollars (\$500,000). The financial assurance is required to secure or guarantee funding for works or programmes required by or under this licence. The financial assurance must contain a term that provides that any monies claimed can be paid to the EPA or, at the written direction of the EPA, to any other person. The licensee must provide to the EPA, along with the original counterpart guarantees, confirmation in writing that the financial institution providing the guarantees is subject to supervision by APRA.
- E1.3 The financial assurance must be maintained during the operation of the facility and thereafter until such time as the EPA is satisfied the premises is environmentally secure.
- E1.4 The EPA may require an increase in the amount of the financial assurance at any time as a result of reassessment of the total likely costs and expenses of rehabilitation of the premises.
- E1.5 The EPA may claim on a financial assurance under s303 of the POEO Act if a licensee fails to carry out any work or program required to comply with the conditions of this licence.
- E1.6 The financial assurance must be replenished by the full amount claimed or realised if the EPA has claimed on or realised the financial assurance or any part of it to undertake a work or program required to be carried out by the licence which has not been undertaken by the licence holder.

E2 Environmental Obligations of Licensee

- E2.1 While the licensee's premises are being used for the purpose to which the licence relates, the licensee must:
 - a) Clean up any spill, leak or other discharge of any waste(s) or other material(s) as soon as practicable after it becomes known to the licensee or to one of the licensee's employees or agents.

Environment Protection Licence



Licence - 20937

- b) In the event(s) that any liquid and non-liquid waste(s) is unlawfully deposited on the premises, such waste(s) must be removed and lawfully disposed of as soon as practicable or in accordance with any direction given by the EPA.
- c) Provide all monitoring data as required by the conditions of this licence or as directed by the EPA.

E2.2 In the event of an earthquake, storm, fire, flood or any other event where it is reasonable to suspect that a pollution incident has occurred, is occurring or is likely to occur, the licensee (whether or not the premises continue to be used for the purposes to which the licence relates) must:

- a) Make all efforts to contain all firewater on the licensee's premises;
- b) Make all efforts to control air pollution from the licensee's premises;
- c) Make all efforts to contain any discharge, spill or run-off from the licensee's premises;
- d) Make all efforts to prevent flood water entering the licensee's premises;
- e) Remediate and rehabilitate any exposed areas of soil and/or waste;
- f) Lawfully dispose of all liquid and solid waste(s) stored on the premises that is not already securely disposed of;
- g) At the request of the EPA monitor groundwater beneath the licensee's premises and its potential to migrate from the licensee's premises;
- h) At the request of the EPA monitor surface water leaving the licensee's premises; and
- i) Ensure the licensee's premises is secure.

E2.3 After the licensee's premises cease to be used for the purpose to which the licence relates or in the event that the licensee ceases to carry out the activity that is the subject of this licence, that licensee must:

- a) remove and lawfully dispose of all liquid and non-liquid waste stored on the licensee's premises; and
- b) rehabilitate the site, including conducting an assessment of and if required remediation of any site contamination.

Environment Protection Licence

Licence - 20937

Dictionary

General Dictionary

3DGM [in relation to a concentration limit]	Means the three day geometric mean, which is calculated by multiplying the results of the analysis of three samples collected on consecutive days and then taking the cubed root of that amount. Where one or more of the samples is zero or below the detection limit for the analysis, then 1 or the detection limit respectively should be used in place of those samples
Act	Means the Protection of the Environment Operations Act 1997
activity	Means a scheduled or non-scheduled activity within the meaning of the Protection of the Environment Operations Act 1997
actual load	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
AM	Together with a number, means an ambient air monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
AMG	Australian Map Grid
anniversary date	The anniversary date is the anniversary each year of the date of issue of the licence. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
annual return	Is defined in R1.1
Approved Methods Publication	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
assessable pollutants	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
BOD	Means biochemical oxygen demand
CEM	Together with a number, means a continuous emission monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
COD	Means chemical oxygen demand
composite sample	Unless otherwise specifically approved in writing by the EPA, a sample consisting of 24 individual samples collected at hourly intervals and each having an equivalent volume.
cond.	Means conductivity
environment	Has the same meaning as in the Protection of the Environment Operations Act 1997
environment protection legislation	Has the same meaning as in the Protection of the Environment Administration Act 1991
EPA	Means Environment Protection Authority of New South Wales.
fee-based activity classification	Means the numbered short descriptions in Schedule 1 of the Protection of the Environment Operations (General) Regulation 2009.
general solid waste (non-putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997

Environment Protection Licence

Licence - 20937

flow weighted composite sample	Means a sample whose composites are sized in proportion to the flow at each composites time of collection.
general solid waste (putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
grab sample	Means a single sample taken at a point at a single time
hazardous waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
licensee	Means the licence holder described at the front of this licence
load calculation protocol	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
local authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
material harm	Has the same meaning as in section 147 Protection of the Environment Operations Act 1997
MBAS	Means methylene blue active substances
Minister	Means the Minister administering the Protection of the Environment Operations Act 1997
mobile plant	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
motor vehicle	Has the same meaning as in the Protection of the Environment Operations Act 1997
O&G	Means oil and grease
percentile [in relation to a concentration limit of a sample]	Means that percentage [eg.50%] of the number of samples taken that must meet the concentration limit specified in the licence for that pollutant over a specified period of time. In this licence, the specified period of time is the Reporting Period unless otherwise stated in this licence.
plant	Includes all plant within the meaning of the Protection of the Environment Operations Act 1997 as well as motor vehicles.
pollution of waters [or water pollution]	Has the same meaning as in the Protection of the Environment Operations Act 1997
premises	Means the premises described in condition A2.1
public authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
regional office	Means the relevant EPA office referred to in the Contacting the EPA document accompanying this licence
reporting period	For the purposes of this licence, the reporting period means the period of 12 months after the issue of the licence, and each subsequent period of 12 months. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
restricted solid waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
scheduled activity	Means an activity listed in Schedule 1 of the Protection of the Environment Operations Act 1997
special waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
TM	Together with a number, means a test method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .

Environment Protection Licence

Licence - 20937

TSP	Means total suspended particles
TSS	Means total suspended solids
Type 1 substance	Means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or more of those elements
Type 2 substance	Means the elements beryllium, chromium, cobalt, manganese, nickel, selenium, tin or vanadium or any compound containing one or more of those elements
utilisation area	Means any area shown as a utilisation area on a map submitted with the application for this licence
waste	Has the same meaning as in the Protection of the Environment Operations Act 1997
waste type	Means liquid, restricted solid waste, general solid waste (putrescible), general solid waste (non - putrescible), special waste or hazardous waste

Ms Celeste Forestal

Environment Protection Authority

(By Delegation)

Date of this edition: 09-May-2017

End Notes

2	Licence varied by notice	1561945 issued on 14-May-2018
3	Licence varied by notice	1576340 issued on 22-Feb-2019
4	Licence varied by notice	1577846 issued on 30-Apr-2019
5	Licence varied by notice	1583536 issued on 20-Aug-2019

Environment Protection Licence

Licence - 5186

Licence Details	
Number:	5186
Anniversary Date:	20-December

Licensee
BRANDOWN PTY. LIMITED
PO BOX 141
KEMPS CREEK NSW 2178

Premises
BRANDOWN PTY LIMITED
LOT 90 ELIZABETH DRIVE
KEMPS CREEK NSW 2178

Scheduled Activity
Extractive activities
Waste disposal (application to land)

Fee Based Activity	Scale
Land-based extractive activity	> 100000-500000 T annual capacity to extract, process or store
Waste disposal by application to land	Any capacity

Region
Waste & Resource Recovery
59-61 Goulburn Street
SYDNEY NSW 2000
Phone: (02) 9995 5000
Fax: (02) 9995 5999
PO Box A290
SYDNEY SOUTH NSW 1232



Environment Protection Licence

Licence - 5186

INFORMATION ABOUT THIS LICENCE	4
Dictionary	4
Responsibilities of licensee	4
Variation of licence conditions	4
Duration of licence	4
Licence review	4
Fees and annual return to be sent to the EPA	4
Transfer of licence	5
Public register and access to monitoring data	5
1 ADMINISTRATIVE CONDITIONS	6
A1 What the licence authorises and regulates	6
A2 Premises or plant to which this licence applies	6
A3 Information supplied to the EPA	6
2 DISCHARGES TO AIR AND WATER AND APPLICATIONS TO LAND	7
P1 Location of monitoring/discharge points and areas	7
3 LIMIT CONDITIONS	11
L1 Pollution of waters	11
L2 Concentration limits	11
L3 Waste	12
L4 Noise limits	13
L5 Blasting	13
L6 Hours of operation	14
L7 Potentially offensive odour	14
4 OPERATING CONDITIONS	14
O1 Activities must be carried out in a competent manner	14
O2 Maintenance of plant and equipment	14
O3 Dust	14
O4 Emergency response	15
O5 Processes and management	15
O6 Waste management	15
O7 Other operating conditions	18
5 MONITORING AND RECORDING CONDITIONS	18
M1 Monitoring records	18
M2 Requirement to monitor concentration of pollutants discharged	19



Environment Protection Licence

Licence - 5186

M3	Testing methods - concentration limits	23
M4	Environmental monitoring	24
M5	Weather monitoring	24
M6	Recording of pollution complaints	24
M7	Telephone complaints line	24
M8	Requirement to monitor volume or mass	25
M9	Other monitoring and recording conditions	25
6	REPORTING CONDITIONS	25
R1	Annual return documents	25
R2	Notification of environmental harm	26
R3	Written report	27
R4	Other reporting conditions	27
7	GENERAL CONDITIONS	27
G1	Copy of licence kept at the premises or plant	27
8	POLLUTION STUDIES AND REDUCTION PROGRAMS	28
U1	Operational Water Balance	28
U2	Detailed Groundwater Assessment	28
9	SPECIAL CONDITIONS	29
E1	Financial assurance	29
E2	Cell 5 Construction	29
	DICTIONARY	31
	General Dictionary	31

Environment Protection Licence

Licence - 5186



Information about this licence

Dictionary

A definition of terms used in the licence can be found in the dictionary at the end of this licence.

Responsibilities of licensee

Separate to the requirements of this licence, general obligations of licensees are set out in the Protection of the Environment Operations Act 1997 (“the Act”) and the Regulations made under the Act. These include obligations to:

- ensure persons associated with you comply with this licence, as set out in section 64 of the Act;
- control the pollution of waters and the pollution of air (see for example sections 120 - 132 of the Act);
- report incidents causing or threatening material environmental harm to the environment, as set out in Part 5.7 of the Act.

Variation of licence conditions

The licence holder can apply to vary the conditions of this licence. An application form for this purpose is available from the EPA.

The EPA may also vary the conditions of the licence at any time by written notice without an application being made.

Where a licence has been granted in relation to development which was assessed under the Environmental Planning and Assessment Act 1979 in accordance with the procedures applying to integrated development, the EPA may not impose conditions which are inconsistent with the development consent conditions until the licence is first reviewed under Part 3.6 of the Act.

Duration of licence

This licence will remain in force until the licence is surrendered by the licence holder or until it is suspended or revoked by the EPA or the Minister. A licence may only be surrendered with the written approval of the EPA.

Licence review

The Act requires that the EPA review your licence at least every 5 years after the issue of the licence, as set out in Part 3.6 and Schedule 5 of the Act. You will receive advance notice of the licence review.

Fees and annual return to be sent to the EPA

For each licence fee period you must pay:

- an administrative fee; and
- a load-based fee (if applicable).

Environment Protection Licence

Licence - 5186



The EPA publication “A Guide to Licensing” contains information about how to calculate your licence fees. The licence requires that an Annual Return, comprising a Statement of Compliance and a summary of any monitoring required by the licence (including the recording of complaints), be submitted to the EPA. The Annual Return must be submitted within 60 days after the end of each reporting period. See condition R1 regarding the Annual Return reporting requirements.

Usually the licence fee period is the same as the reporting period.

Transfer of licence

The licence holder can apply to transfer the licence to another person. An application form for this purpose is available from the EPA.

Public register and access to monitoring data

Part 9.5 of the Act requires the EPA to keep a public register of details and decisions of the EPA in relation to, for example:

- licence applications;
- licence conditions and variations;
- statements of compliance;
- load based licensing information; and
- load reduction agreements.

Under s320 of the Act application can be made to the EPA for access to monitoring data which has been submitted to the EPA by licensees.

This licence is issued to:

BRANDOWN PTY. LIMITED
PO BOX 141
KEMPS CREEK NSW 2178

subject to the conditions which follow.

Environment Protection Licence

Licence - 5186

1 Administrative Conditions

A1 What the licence authorises and regulates

A1.1 This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, fee-based activity classification and the scale of the operation.

Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition.

Scheduled Activity	Fee Based Activity	Scale
Extractive activities	Land-based extractive activity	> 100000 - 500000 T annual capacity to extract, process or store
Waste disposal (application to land)	Waste disposal by application to land	Any capacity

A2 Premises or plant to which this licence applies

A2.1 The licence applies to the following premises:

Premises Details
BRANDOWN PTY LIMITED
LOT 90 ELIZABETH DRIVE
KEMPS CREEK
NSW 2178
PART LOT 90 DP 1101411
AS SHOWN BY THE SHADED AREA ON THE PLAN TITLED "PLAN SHOWING PROPOSED BOUNDARIES AT BRANDOWN LANDFILL AREA (HATCHED) PART LOT 90 IN DP 1101411 ELIZABETH DRIVE KEMPS CREEK" DATED 15 FEBRUARY 2007 PREPARED BY MATTHEW FREEBURN SURVEYORS

A3 Information supplied to the EPA

A3.1 Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence.

In this condition the reference to "the licence application" includes a reference to:

- the applications for any licences (including former pollution control approvals) which this licence replaces under the Protection of the Environment Operations (Savings and Transitional) Regulation 1998; and
- the licence information form provided by the licensee to the EPA to assist the EPA in connection with

Environment Protection Licence

Licence - 5186

the issuing of this licence.

A3.2 The document titled Report on Landfill Environmental Management Plan – Brandown Landfill Elizabeth Drive, Kemps Creek prepared by Douglas Partners Pty Ltd dated February 2008 is not to be taken as part of the documentation in A4.1, other than those parts specifically referenced in this licence.

Note: For the purposes of this licence the abbreviation “LEMP” is defined as the document titled Report on Landfill Environmental Management Plan – Brandown Landfill Elizabeth Drive, Kemps Creek prepared by Douglas Partners Pty Ltd dated February 2008.

2 Discharges to Air and Water and Applications to Land

P1 Location of monitoring/discharge points and areas

P1.1 The following points referred to in the table below are identified in this licence for the purposes of monitoring and/or the setting of limits for the emission of pollutants to the air from the point.

Air

EPA identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
1	Dust monitoring		Dust gauge labelled "1" on Drawing 10B Dust Monitoring - Current Locations in the LEMP dated Feb 2008.
2	Dust monitoring		Dust gauge labelled "2" on Drawing 10B Dust Monitoring - Current Locations in the LEMP dated Feb 2008.
3	Dust monitoring		Dust gauge labelled "3" on Drawing 10B Dust Monitoring - Current Locations in the LEMP dated Feb 2008.

P1.2 The following utilisation areas referred to in the table below are identified in this licence for the purposes of the monitoring and/or the setting of limits for any application of solids or liquids to the utilisation area.

P1.3 The following points referred to in the table are identified in this licence for the purposes of the monitoring and/or the setting of limits for discharges of pollutants to water from the point.

Water and land

EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
4	Leachate quality monitoring		Concrete leachate riser located in Cell C3/C5 and marked "4" on Figure 8 of the LEMP.

Environment Protection Licence

Licence - 5186



5	Leachate quality monitoring	Northern concrete leachate riser located in Cell C6 and marked "5" in Figure 8 of the LEMP.
7	Groundwater quality monitoring	Groundwater monitoring bore "GW7" as depicted on Map titled "Monitoring Network Brandown Waste Management Facility -- Kemps Creek Lot 90 DP1101411" Douglas Partners - 12-2-2018 - Project No. 45532.43
8	Groundwater quality monitoring	Groundwater monitoring bore "GW8" as depicted on Map titled "Monitoring Network Brandown Waste Management Facility -- Kemps Creek Lot 90 DP1101411" Douglas Partners - 12-2-2018 - Project No. 45532.43
9	Groundwater quality monitoring	Groundwater monitoring bore "GW9" as depicted on Map titled "Monitoring Network Brandown Waste Management Facility -- Kemps Creek Lot 90 DP1101411" Douglas Partners - 12-2-2018 - Project No. 45532.43
10	Groundwater quality monitoring	Groundwater monitoring bore "GW10" as depicted on Map titled "Monitoring Network Brandown Waste Management Facility -- Kemps Creek Lot 90 DP1101411" Douglas Partners - 12-2-2018 - Project No. 45532.43
11	Groundwater quality monitoring	Groundwater monitoring bore "GW11" as depicted on Map titled "Monitoring Network Brandown Waste Management Facility -- Kemps Creek Lot 90 DP1101411" Douglas Partners - 12-2-2018 - Project No. 45532.43
13	Groundwater quality monitoring	Groundwater monitoring bore "GW13" as depicted on Map titled "Monitoring Network Brandown Waste Management Facility -- Kemps Creek Lot 90 DP1101411" Douglas Partners - 12-2-2018 - Project No. 45532.43
14	Groundwater quality monitoring	Groundwater monitoring bore "GW14A" as depicted on Map titled "Monitoring Network Brandown Waste Management Facility -- Kemps Creek Lot 90 DP1101411" Douglas Partners - 12-2-2018 - Project No. 45532.43

Environment Protection Licence



Licence - 5186

15	Discharge to waters Effluent quality and volume monitoring	Discharge to waters Effluent quality and volume monitoring	The spillway from the southeastern dam described as sedimentation pond S15 in LEMP and marked on Figure 2A of the LEMP, discharging to unnamed creek and flowing to Kemps Creek.
16	Surface water quality monitoring		Surface water monitoring location marked "16" on Figure 7A of the LEMP.
17	Surface water quality monitoring		Surface water monitoring location marked "17" on Figure 7A of the LEMP.
18	Surface water quality monitoring		Surface water monitoring location marked "18" on Figure 7A of the LEMP.
19	Surface water quality monitoring		Surface water monitoring location marked "19" on Figure 7A of the LEMP.
20	Surface water quality monitoring		The southeastern dam described as sedimentation pond S15 in LEMP and marked on Figure 2A of the LEMP.
21	Groundwater quality monitoring		Groundwater monitoring bore "GW21" as depicted on Map titled "Monitoring Network Brandown Waste Management Facility -- Kemps Creek Lot 90 DP1101411" Douglas Partners - 12-2-2018 - Project No. 45532.43
22	Groundwater quality monitoring		Groundwater monitoring bore "GW22" as depicted on Map titled "Monitoring Network Brandown Waste Management Facility -- Kemps Creek Lot 90 DP1101411" Douglas Partners - 12-2-2018 - Project No. 45532.43
23	Groundwater quality monitoring		Groundwater monitoring bore "GW23" as depicted on Map titled "Monitoring Network Brandown Waste Management Facility -- Kemps Creek Lot 90 DP1101411" Douglas Partners - 12-2-2018 - Project No. 45532.43
24	Groundwater quality monitoring		Groundwater monitoring bore "GW24" as depicted on Map titled "Monitoring Network Brandown Waste Management Facility -- Kemps Creek Lot 90 DP1101411" Douglas Partners - 12-2-2018 - Project No. 45532.43

Environment Protection Licence



Licence - 5186

25	Groundwater quality monitoring	Groundwater monitoring bore "GW25" as depicted on Map titled "Monitoring Network Brandown Waste Management Facility -- Kemps Creek Lot 90 DP1101411" Douglas Partners - 12-2-2018 - Project No. 45532.43
26	Groundwater quality monitoring	Groundwater monitoring bore "GW26" as depicted on Map titled "Monitoring Network Brandown Waste Management Facility -- Kemps Creek Lot 90 DP1101411" Douglas Partners - 12-2-2018 - Project No. 45532.43
27	Groundwater quality monitoring	Groundwater monitoring bore "GW27" as depicted on Map titled "Monitoring Network Brandown Waste Management Facility -- Kemps Creek Lot 90 DP1101411" Douglas Partners - 12-2-2018 - Project No. 45532.43
28	Groundwater quality monitoring	Groundwater monitoring bore "GW28A" as depicted on Map titled "Monitoring Network Brandown Waste Management Facility -- Kemps Creek Lot 90 DP1101411" Douglas Partners - 12-2-2018 - Project No. 45532.43
29	Groundwater quality monitoring	Groundwater monitoring bore "GW33" as depicted on Map titled "Monitoring Network Brandown Waste Management Facility -- Kemps Creek Lot 90 DP1101411" Douglas Partners - 12-2-2018 - Project No. 45532.43
30	Groundwater quality monitoring	Groundwater monitoring bore "GW34" as depicted on Map titled "Monitoring Network Brandown Waste Management Facility -- Kemps Creek Lot 90 DP1101411" Douglas Partners - 12-2-2018 - Project No. 45532.43
31	Groundwater quality monitoring	Groundwater monitoring bore "GW35" as depicted on Map titled "Monitoring Network Brandown Waste Management Facility -- Kemps Creek Lot 90 DP1101411" Douglas Partners - 12-2-2018 - Project No. 45532.43

Environment Protection Licence

Licence - 5186



32	Groundwater quality monitoring	Groundwater monitoring bore "GW36" as depicted on Map titled "Monitoring Network Brandown Waste Management Facility -- Kemps Creek Lot 90 DP1101411" Douglas Partners - 12-2-2018 - Project No. 45532.43
----	--------------------------------	--

3 Limit Conditions

L1 Pollution of waters

L1.1 Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the Protection of the Environment Operations Act 1997.

L2 Concentration limits

L2.1 For each monitoring/discharge point or utilisation area specified in the table below (by a point number), the concentration of a pollutant discharged at that point, or applied to that area, must not exceed the concentration limits specified for that pollutant in the table.

L2.2 Where a pH quality limit is specified in the table, the specified percentage of samples must be within the specified ranges.

L2.3 To avoid any doubt, this condition does not authorise the pollution of waters by any pollutant other than those specified in the table.

L2.4 Water and/or Land Concentration Limits

POINT 15

Pollutant	Units of Measure	50 percentile concentration limit	90 percentile concentration limit	3DGM concentration limit	100 percentile concentration limit
Biochemical oxygen demand	milligrams per litre				20
Nitrogen (ammonia)	milligrams per litre				1
pH	pH				6.5-8.5

Environment Protection Licence



Licence - 5186

Total suspended solids	milligrams per litre	50
------------------------	----------------------	----

L2.5 The licensee is taken not to have exceeded a concentration limit specified in the licence for the discharge of Total Suspended Solids from Point 15 if:

- The discharge from Point 15 occurs solely as a result of a rainfall event at the premises; and
- The licensee has taken all practical measures to avoid or minimise water pollution.

L3 Waste

L3.1 The licensee must not cause, permit or allow any waste to be received at the premises, except the wastes expressly referred to in the column titled "Waste" and meeting the definition, if any, in the column titled "Description" in the table below.

Any waste received at the premises must only be used for the activities referred to in relation to that waste in the column titled "Activity" in the table below.

Any waste received at the premises is subject to those limits or conditions, if any, referred to in relation to that waste contained in the column titled "Other Limits" in the table below.

This condition does not limit any other conditions in this licence.

Code	Waste	Description	Activity	Other Limits
NA	General Solid Waste (non-putrescible) excluding biosolids	As defined in Schedule 1 of the POEO Act, as in force from time to time	Waste disposal (application to land)	NA
NA	Waste tyres	As defined in Schedule 1 of the POEO Act, as in force from time to time	Waste disposal (application to land)	NA
NA	Asbestos waste	As defined in Schedule 1 of the POEO Act, as in force from time to time	Waste disposal (application to land)	NA
NA	Waste	Any waste received on site that is below licensing thresholds in Schedule 1 of the POEO Act, as in force from time to time	-	NA

L3.2 All waste received at the premises for the purposes of disposal must be landfilled in Cell 4.

L3.3 The licensee must not exhume any landfilled waste at the premises unless provided with written authorisation from the EPA to do so.

L3.4 The licensee must not dispose of any tyre at the premises unless:

Environment Protection Licence



Licence - 5186

- a) The tyre has a diameter of 1.2 metres or more; and/or
- b) The tyre has been shredded or had its walls removed; and/or
- c) The tyre was delivered to the premises as part of a domestic load.

L3.5 In condition L3.4:

- a) tyres are taken to be shredded only if the tyres are in pieces measuring no more than 250mm in any direction; and
- b) domestic loads means a load containing no more than 5 tyres having a diameter of less than 1.2 metres.

L3.6 Tyres stockpiled on the premises must:

- a) not exceed fifty (50) tonnes of tyres at any one time; and
- b) be located in a clearly defined area away from the tipping face; and
- c) be managed to control vermin; and
- d) be managed to prevent any tyres from catching fire.

L4 Noise limits

L4.1 Noise from the premises must not exceed an LA10 (15 minute) noise emission criterion of 45 dB(A), except as expressly provided by this licence.

L4.2 Noise from the premises is to be measured or computed at any point within one metre of the nearest affected residence or other noise sensitive areas to determine compliance with condition L6.1 5dB(A) must be added if the noise is tonal or impulsive in character

L5 Blasting

L5.1 The overpressure level from blasting operations on the premises must not:

- a) Exceed 115dB (Lin Peak) for more than 5% of the total number of blasts over a period of 12 months; and
- b) Exceed 120dB (Lin Peak) at any time.

The airblast overpressure values stated above apply when the measurements are performed with equipment having a lower cut-off frequency of 2Hz or less. If the instrumentation has a higher cut-off frequency then a correction of 5dB should be added to the measure value. Equipment with a lower cut-off frequency exceeding 10Hz should not be used for the purpose of measuring airblast overpressure.

L5.2 Noise from blasting operations at the premises must be measured at the most affected residential property, or if this is more than 30 metres from the residence, at the most affected point 30 minutes from the residence or other noise sensitive premises.

Environment Protection Licence



Licence - 5186

L6 Hours of operation

L6.1 The plant and equipment must not be operated outside the following times:

- a) 0600 hours and 1800 hours Mondays to Fridays inclusive;
- b) 0600 hours and 1700 hours Saturdays; and
- c) 0800 hours and 1700 hours Sundays and Public Holidays.

L7 Potentially offensive odour

L7.1 No condition of this licence identifies a potentially offensive odour for the purposes of section 129 of the Protection of the Environment Operations Act 1997.

Note: Section 129 of the Protection of the Environment Operations Act 1997, provides that the licensee must not cause or permit the emission of any offensive odour from the premises but provides a defence if 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 a licence directed at minimising odour.

4 Operating Conditions

O1 Activities must be carried out in a competent manner

O1.1 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.

O2 Maintenance of plant and equipment

O2.1 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.

O3 Dust

O3.1 The premises must be maintained in a condition which prevents the emission of dust from the premises.

O3.2 Activities must be carried out in a manner that minimises the generation of dust.

O3.3 The licensee must ensure that no material, including sediment or oil, is tracked from the premises.

Environment Protection Licence



Licence - 5186

- O3.4 Trucks entering and leaving the premises that are carrying loads must be covered at all times, except during loading and unloading.

O4 Emergency response

- O4.1 The licensee must extinguish fires in waste stockpiles or landfilled waste as soon as possible.

O5 Processes and management

- O5.1 The licensee must take all practicable steps to control entry to the premises.

O6 Waste management

- O6.1 Cover material must be:

a) Daily cover

Daily cover material must be either

- i) virgin excavated natural material (VENM); or
- ii) NSW EPA approved alternative daily cover.

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.

b) Intermediate cover

Cover material must be virgin excavated natural material and must be applied to a depth of 30 centimetres over surfaces of the landfilled waste at the premises which are to be exposed for more than 90 days.

c) Cover material stockpile

At least two weeks cover material must be available at the premises under all weather conditions. This material may be won on site, or alternatively a cover stockpile must be maintained adjacent to the tip face.

- O6.2 The NSW EPA approved alternative daily cover is to only be waste that complies with the specifications outlined in the EPA's correspondence dated 30 June 2005.

- O6.3 There must be no incineration or burning of any waste at the premises.

- O6.4 All operations and activities occurring at the premises must be carried out in a manner that will prevent and minimise fire at the premises.

- O6.5 The licensee must only dispose of leachate by:

- a) evaporation from the leachate pond; and/or
- g) applied to the active tipping face; and/or

Environment Protection Licence



Licence - 5186

- c) injection back into Cell 3 (active or post capping); and/or
- d) off-site disposal at a facility that can lawfully receive the leachate.

O6.6 The licensee must only inject leachate in accordance with the approach detailed in section 7.5 of the report titled "Design of Leachate Collection System Kemps Creek Landfill" prepared for Brandown Pty Ltd by Douglas Partners Pty Ltd - Project 43752 - December 2006 ("the report"). A report which details the findings of the leachate injection trial, proposed in section 7.5 of the report recommending the on-going injection system's design, must be submitted to the Manager Waste Operations, Department of Environment and Conservation, PO Box A290 Sydney South NSW, 6 months after commencing the disposal of waste in Cell 3A.

Definition: Leachate is taken as water which has come into contact with waste (other than daily and intermediate cover).

- O6.7 The licensee must ensure that the level of leachate above the upper surface of the leachate drainage layer in Cell 3 does not exceed 300mm above the HDPE liner at its lowest point.
- O6.8 If the height of leachate in the riser for Cell 3 exceeds 300mm above the HDPE liner at its lowest point the licensee must:
- a) Within 7 days of the exceedance: notify the EPA;
 - b) Within 21 days of the exceedance: inform the EPA, in writing, what action the licensee has taken and/or will take to ensure that the height of leachate is at or below 300mm.
- O6.9 The licensee must monitor and record:
- a) Weekly: the volume of the leachate held in the leachate pond; and
 - b) Whenever leachate is pumped into the pond: the volume of leachate added from each cell; and
 - c) Whenever leachate is pumped out of the pond: the volume removed from the leachate pond.
- O6.10 The licensee must monitor and record:
- a) daily: the height of the leachate relative to the Australian Height Datum in the leachate riser in Cell 3; and
 - b) weekly: the height of the leachate relative to the Australian Height Datum in all other leachate risers on the premises.
- O6.11 All stormwater pumped out of Landfill Cell 4 must be monitored and managed as leachate if it has a total ammonia concentration level greater than 12mg/L.
- O6.12 The licensee must ensure that a freeboard of 200mm is maintained in the leachate pond. The licensee must install a marker in the leachate pond to allow the 200mm freeboard to be checked visually.
- O6.13 If the freeboard in the leachate pond falls below 200mm at any time, the licensee must within 24 hours inform the EPA by contacting the Environment Line on 131 555.
- O6.14 Surface drainage must be diverted away from any area where waste is being or has been landfilled.
- O6.15 The perimeter of the areas where waste has been landfilled must be contoured to prevent stormwater running onto these surface from all storm events less than or equal to a 1 in 10 year recurrence interval of 24 hours duration.
- O6.16 The licensee must maintain a filling plan that identifies areas to be used in the future for the disposal of

Environment Protection Licence



Licence - 5186

waste. The filling plan must be updated at intervals of no greater than twelve months.

O6.17 The last licensee must prepare and submit to the EPA within twelve months prior to the last load of waste being landfilled a closure plan in accordance with section 76 of the Protection of the Environment Operations Act 1997.

O6.18 Except as otherwise provided by the licence the final capping system for Cell 3:

- a) as referred to in the letter from Douglas Partners Pty Limited of 15 January 2008; and
- b) as depicted as "Cell 3A and 3B" in the drawing "Plan Showing the Cell Layout Over Lot 90 DP 1101411, Bandown Pty Ltd Elizabeth Drive Kemps Creek," Matthew Freeburn, Land Engineering and Mining Surveyors, 24 January 2008; and
- c) as described in Report on Landfill Environmental Management Plan – Brandown Landfill Elizabeth Drive, Kemps Creek prepared by Douglas Partners Pty Ltd dated February 2008.

must comprise the system detailed in, and be installed in accordance with the specifications, procedures and Capping Quality Assurance (CQA) program proposed in Section 4 of the Douglas Partner's letter referred to at (a) above.

O6.19 In addition to the requirements set out in Condition O6.18, the final capping system must include:

- a) a compacted clay bearing sealing/ layer of minimum thickness 500 mm and a permeability of 10^{-9} m/second; and
- b) a compacted shale sealing layer of minimum thickness 500 mm and a permeability of 6×10^{-9} m/second ; and
- c) a revegetation layer of minimum thickness 600 mm.

O6.20 In addition to the requirements set out Conditions O6.18 and O6.19, the CQA program for the final capping system must include:

- a) field surveys of;
 - i) the surface on which the compacted clay layer is installed;
 - ii) the upper surface of every installed layer of the capping system; and
- b) compaction and moisture testing of the proposed clay and shale layers at a minimum frequency of 1 test each per 1000 m³ of material placed and permeability testing at a minimum frequency of 1 test per 5000 m².

O6.21 Following completion of installation of the compacted clay layer, surface gas monitoring must be undertaken in accordance with Benchmark Technique 17 of the Environmental Guidelines: Solid Waste Landfills, NSW Environment Protection Authority 1996.

O6.22 In the event that the monitoring undertaken in accordance with Condition O6.21 indicates surface methane emissions greater than 500 parts per million (v/v) the licensee must:

- a) inform the EPA; and
- b) install a gas drainage system between the compacted clay and shale layers, which complies with the following:
 - i) it must have a minimum thickness of 300 mm; and
 - ii) the calcium carbonate content of the material used for the layer must not exceed 10% by weight.

O6.23 The licensee shall:

- a) notify the EPA at least 3 months prior to the commencement of the installation of the capping system in Cell 3;

Environment Protection Licence



Licence - 5186

b) within 12 months from the notification referred to in (a) complete the installation of the of the clay, shale and if necessary the gas drainage layers, of the capping system (as detailed in Condition O6.19 and O6.20);

c) within 3 months of completion of the installations referred to in (b) provide the EPA with a Capping Quality Assurance (CQA) report which provides details of the implementation of the CQA program (as detailed in Condition O6.18) and the results of the field surveys and compaction, moisture content and permeability testing required by Condition O6.20.

O6.24 The final contours of the completed capping system for Cell 3 must be in accordance with Drawing 11 – Final Landform in Appendix A to Report on Landfill Environmental Management Plan – Brandown Landfill Elizabeth Drive, Kemps Creek prepared by Douglas Partners Pty Ltd dated February 2008.

O6.25 Waste must not be transferred into Cell 4 by dumping or pushing any waste from the rim of the cell. All waste disposed of in Cell 4 must be transported into the landfill cell by a vehicle.

O6.26 The height of waste, capping and any other materials above the base of Cell 3 and Cell 4 must not exceed 50 metres AHD.

O7 Other operating conditions

O7.1 The height of groundwater measured in groundwater de-watering pipe in Cell 3 must be maintained below 20m AHD until:

- a) 200,000 cubic metres of waste has been placed in Cell 3; and
- b) The EPA has provided written approval to the licensee to exceed this limit.

O7.2 Groundwater extracted from the groundwater dewatering pipe in Cell 3 must be sampled and analysed for total ammonia at a frequency of one grab sample per week and a record of the analysis results must be maintained on the premises.

O7.3 The licensee must notify in writing the Senior Manager Waste Compliance, EPA, PO Box A290 Sydney South NSW 1232 within 24 hours of becoming aware of groundwater extracted from the groundwater dewatering pipe of sampled groundwater has a total ammonia concentration above 12mg/L.

O7.4 Groundwater extracted from groundwater dewatering pipe in Cell 3 which has a total ammonia concentration above 12mg/L must be treated as leachate and in accordance with Condition O5.1 of the licence must be:

- a) transferred for storage to leachate pond (only if the pond's actual freeboard is greater than 0.2 metres); and/or
- b) injected back into Cell 3; and/or
- c) applied to the active tipping face; and/or
- d) disposed of off-site at a facility which can lawfully receive the groundwater.

5 Monitoring and Recording Conditions

M1 Monitoring records

M1.1 The results of any monitoring required to be conducted by this licence or a load calculation protocol must

Environment Protection Licence



Licence - 5186

be recorded and retained as set out in this condition.

M1.2 All records required to be kept by this licence must be:

- in a legible form, or in a form that can readily be reduced to a legible form;
- kept for at least 4 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.

M1.3 The following records must be kept in respect of any samples required to be collected for the purposes of this licence:

- 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.

M2 Requirement to monitor concentration of pollutants discharged

M2.1 For each monitoring/discharge point or utilisation area specified below (by a point number), the licensee must monitor (by sampling and obtaining results by analysis) the concentration of each pollutant specified in Column 1. The licensee must use the sampling method, units of measure, and sample at the frequency, specified opposite in the other columns:

M2.2 Air Monitoring Requirements

POINT 1,2,3

Pollutant	Units of measure	Frequency	Sampling Method
Particulates - Deposited Matter	grams per square metre per month	Monthly	Australian Standard 3580.10.1-1991

M2.3 Water and/ or Land Monitoring Requirements

POINT 4,5

Pollutant	Units of measure	Frequency	Sampling Method
Alkalinity (as calcium carbonate)	milligrams per litre	Quarterly	Grab sample
Aluminium	milligrams per litre	Yearly	Grab sample
Arsenic	milligrams per litre	Yearly	Grab sample
Barium	milligrams per litre	Yearly	Grab sample
Benzene	milligrams per litre	Yearly	Grab sample
Cadmium	milligrams per litre	Yearly	Grab sample
Calcium	milligrams per litre	Quarterly	Grab sample

Environment Protection Licence

Licence - 5186

Chloride	milligrams per litre	Quarterly	Grab sample
Chromium (hexavalent)	milligrams per litre	Yearly	Grab sample
Chromium (total)	milligrams per litre	Yearly	Grab sample
Cobalt	milligrams per litre	Yearly	Grab sample
Conductivity	microsiemens per centimetre	Quarterly	Grab sample
Copper	milligrams per litre	Yearly	Grab sample
Ethyl benzene	milligrams per litre	Yearly	Grab sample
Fluoride	milligrams per litre	Quarterly	Grab sample
Lead	milligrams per litre	Yearly	Grab sample
Magnesium	milligrams per litre	Quarterly	Grab sample
Manganese	milligrams per litre	Quarterly	Grab sample
Mercury	milligrams per litre	Yearly	Grab sample
Nitrate	milligrams per litre	Quarterly	Grab sample
Nitrite	milligrams per litre	Quarterly	Grab sample
Nitrogen (ammonia)	milligrams per litre	Quarterly	Grab sample
Organochlorine pesticides	milligrams per litre	Yearly	Grab sample
Organophosphate pesticides	milligrams per litre	Yearly	Grab sample
pH	pH	Quarterly	Grab sample
Phosphorus (total)	milligrams per litre	Quarterly	Grab sample
Polycyclic aromatic hydrocarbons	milligrams per litre	Yearly	Grab sample
Potassium	milligrams per litre	Quarterly	Grab sample
Sodium	milligrams per litre	Quarterly	Grab sample
Standing Water Level	metres	Quarterly	In situ
Sulfate	milligrams per litre	Quarterly	Grab sample
Toluene	milligrams per litre	Yearly	Grab sample
Total dissolved solids	milligrams per litre	Quarterly	Grab sample
Total petroleum hydrocarbons	milligrams per litre	Yearly	Grab sample
Total Phenolics	milligrams per litre	Yearly	Grab sample
Total suspended solids	milligrams per litre	Quarterly	Grab sample
Xylene	milligrams per litre	Yearly	Grab sample
Zinc	milligrams per litre	Yearly	Grab sample

POINT 7,8,9,10,11,13,14,21

Pollutant	Units of measure	Frequency	Sampling Method
Alkalinity (as calcium carbonate)	milligrams per litre	Quarterly	Grab sample
Aluminium	milligrams per litre	Yearly	Grab sample
Arsenic	milligrams per litre	Yearly	Grab sample

Environment Protection Licence

Licence - 5186

Barium	milligrams per litre	Yearly	Grab sample
Benzene	milligrams per litre	Yearly	Grab sample
Cadmium	milligrams per litre	Yearly	Grab sample
Calcium	milligrams per litre	Quarterly	Grab sample
Chloride	milligrams per litre	Quarterly	Grab sample
Chromium (hexavalent)	milligrams per litre	Yearly	Grab sample
Chromium (total)	milligrams per litre	Yearly	Grab sample
Cobalt	milligrams per litre	Yearly	Grab sample
Copper	milligrams per litre	Yearly	Grab sample
Ethyl benzene	milligrams per litre	Yearly	Grab sample
Fluoride	milligrams per litre	Yearly	Grab sample
Lead	milligrams per litre	Yearly	Grab sample
Magnesium	milligrams per litre	Quarterly	Grab sample
Manganese	milligrams per litre	Yearly	Grab sample
Mercury	milligrams per litre	Yearly	Grab sample
Nitrate	milligrams per litre	Yearly	Grab sample
Nitrite	milligrams per litre	Yearly	Grab sample
Nitrogen (ammonia)	milligrams per litre	Quarterly	Grab sample
Organochlorine pesticides	milligrams per litre	Yearly	Grab sample
Organophosphate pesticides	milligrams per litre	Yearly	Grab sample
pH	pH	Quarterly	Probe
Polycyclic aromatic hydrocarbons	milligrams per litre	Yearly	Grab sample
Potassium	milligrams per litre	Quarterly	Grab sample
Sodium	milligrams per litre	Quarterly	Grab sample
Standing Water Level	metres	Quarterly	Grab sample
Sulfate	milligrams per litre	Quarterly	Grab sample
Toluene	milligrams per litre	Yearly	Grab sample
Total dissolved solids	milligrams per litre	Quarterly	Grab sample
Total organic carbon	milligrams per litre	Quarterly	Grab sample
Total petroleum hydrocarbons	milligrams per litre	Yearly	Grab sample
Total Phenolics	milligrams per litre	Yearly	Grab sample
Xylene	milligrams per litre	Yearly	Grab sample
Zinc	milligrams per litre	Yearly	Grab sample

POINT 15

Pollutant	Units of measure	Frequency	Sampling Method
BOD	milligrams per litre	Special Frequency 1	Grab sample
Chemical oxygen demand	milligrams per litre	Special Frequency 1	Grab sample

Environment Protection Licence

Licence - 5186

Conductivity	microsiemens per centimetre	Special Frequency 1	Grab sample
Nitrogen (ammonia)	milligrams per litre	Special Frequency 1	Grab sample
pH	pH	Special Frequency 1	Grab sample
Total organic carbon	milligrams per litre	Special Frequency 1	Grab sample
Total suspended solids	milligrams per litre	Special Frequency 1	Grab sample

POINT 16,17,18,19,20

Pollutant	Units of measure	Frequency	Sampling Method
BOD	milligrams per litre	Quarterly	Grab sample
Chemical oxygen demand	milligrams per litre	Quarterly	Grab sample
Conductivity	microsiemens per centimetre	Quarterly	Grab sample
Nitrogen (ammonia)	milligrams per litre	Quarterly	Grab sample
pH	pH	Quarterly	Grab sample
Total organic carbon	milligrams per litre	Quarterly	Grab sample
Total suspended solids	milligrams per litre	Quarterly	Grab sample

POINT 22,23,24,25,26,27,28,29,30,31,32

Pollutant	Units of measure	Frequency	Sampling Method
Alkalinity (as calcium carbonate)	milligrams per litre	Quarterly	Grab sample
Aluminium	milligrams per litre	Yearly	Grab sample
Arsenic	milligrams per litre	Yearly	Grab sample
Barium	milligrams per litre	Yearly	Grab sample
Benzene	milligrams per litre	Yearly	Grab sample
Cadmium	milligrams per litre	Yearly	Grab sample
Calcium	milligrams per litre	Quarterly	Grab sample
Chloride	milligrams per litre	Quarterly	Grab sample
Chromium (hexavalent)	milligrams per litre	Yearly	Grab sample
Chromium (total)	milligrams per litre	Yearly	Grab sample
Cobalt	milligrams per litre	Yearly	Grab sample
Copper	milligrams per litre	Yearly	Grab sample
Ethyl benzene	milligrams per litre	Yearly	Grab sample
Fluoride	milligrams per litre	Yearly	Grab sample
Lead	milligrams per litre	Yearly	Grab sample
Magnesium	milligrams per litre	Quarterly	Grab sample
Manganese	milligrams per litre	Yearly	Grab sample
Mercury	milligrams per litre	Yearly	Grab sample
Nitrate	milligrams per litre	Yearly	Grab sample
Nitrite	milligrams per litre	Yearly	Grab sample

Environment Protection Licence

Licence - 5186

Nitrogen (ammonia)	milligrams per litre	Quarterly	Grab sample
Organochlorine pesticides	milligrams per litre	Yearly	Grab sample
Organophosphate pesticides	milligrams per litre	Yearly	Grab sample
pH	pH	Quarterly	Grab sample
Polycyclic aromatic hydrocarbons	milligrams per litre	Yearly	Grab sample
Potassium	milligrams per litre	Quarterly	Grab sample
Sodium	milligrams per litre	Quarterly	Grab sample
Standing Water Level	metres	Quarterly	In situ
Sulfate	milligrams per litre	Quarterly	Grab sample
Toluene	milligrams per litre	Yearly	Grab sample
Total dissolved solids	milligrams per litre	Quarterly	Grab sample
Total organic carbon	milligrams per litre	Quarterly	Grab sample
Total petroleum hydrocarbons	milligrams per litre	Yearly	Grab sample
Total Phenolics	milligrams per litre	Yearly	Grab sample
Xylene	milligrams per litre	Yearly	Grab sample
Zinc	milligrams per litre	Yearly	Grab sample

M2.4 For the purposes of the table above Special Frequency 1 means the collection of samples:

- a) on the first day of the authorised discharge that is compliant with condition L2.1 and weekly thereafter if the discharge continues; and
- b) within three days of the first of discharge that is occurring as a result of a rainfall event at the premises.

M3 Testing methods - concentration limits

M3.1 Monitoring for the concentration of a pollutant emitted to the air required to be conducted by this licence must be done in accordance with:

- a) any methodology which is required by or under the Act to be used for the testing of the concentration of the pollutant; or
- b) if no such requirement is imposed by or under the Act, any methodology which a condition of this licence requires to be used for that testing; or
- c) if no such requirement is imposed by or under the Act or by a condition of this licence, any methodology approved in writing by the EPA for the purposes of that testing prior to the testing taking place.

M3.2 Subject to any express provision to the contrary in this licence, monitoring for the concentration of a pollutant discharged to waters or applied to a utilisation area must be done in accordance with the Approved Methods Publication unless another method has been approved by the EPA in writing before

Environment Protection Licence

Licence - 5186



any tests are conducted.

Note: The *Protection of the Environment Operations (Clean Air) Regulation 2010* requires testing for certain purposes to be conducted in accordance with test methods contained in the publication "Approved Methods for the Sampling and Analysis of Air Pollutants in NSW".

M4 Environmental monitoring

- M4.1 The Licensee must record the following data for every fire at the premises:
- a) time and date that the fire started;
 - b) time and date that the fire was either burnt out or extinguished;
 - c) location of the fire (eg. clean timber stockpile, putrescible garbage cell etc);
 - d) prevailing weather conditions; and
 - e) observations made in regard to smoke direction and dispersion.

M5 Weather monitoring

- M5.1 The licensee must monitor and record daily rainfall at the premises.

M6 Recording of pollution complaints

- M6.1 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.
- M6.2 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.
- M6.3 The record of a complaint must be kept for at least 4 years after the complaint was made.
- M6.4 The record must be produced to any authorised officer of the EPA who asks to see them.

M7 Telephone complaints line

- M7.1 The licensee must operate during its operating hours a 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.

Environment Protection Licence

Licence - 5186

M7.2 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.

M7.3 The preceding two conditions do not apply until 3 months after: the date of the issue of this licence.

M8 Requirement to monitor volume or mass

M8.1 For each discharge point or utilisation area specified below, the licensee must monitor:

- a) the volume of liquids discharged to water or applied to the area;
- b) the mass of solids applied to the area;
- c) the mass of pollutants emitted to the air;

at the frequency and using the method and units of measure, specified below.

POINT 15

Frequency	Unit of Measure	Sampling Method
Daily	kilolitres per day	No method specified

M9 Other monitoring and recording conditions

M9.1 For each blast at the premises, the licensee must monitor and record:

- a) over-pressure noise level (linear peak); and
- b) ground vibration, peak particle velocity;

at the most affected residential property boundary, or if this is more than 30 metres from the residence, at the most affected point 30 metres from the residence or other noise sensitive areas.

M9.2 The licensee must monitor and record noise at the premises, expressed as L_{A10} (15 minute), at the three nearest affected residents continually over one full working day at least once every 12 months.

6 Reporting Conditions

R1 Annual return documents

R1.1 The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:

1. a Statement of Compliance,
2. a Monitoring and Complaints Summary,
3. a Statement of Compliance - Licence Conditions,
4. a Statement of Compliance - Load based Fee,
5. a Statement of Compliance - Requirement to Prepare Pollution Incident Response Management Plan,
6. a Statement of Compliance - Requirement to Publish Pollution Monitoring Data; and
7. a Statement of Compliance - Environmental Management Systems and Practices.

Environment Protection Licence



Licence - 5186

At 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.

- R1.2 An Annual Return must be prepared in respect of each reporting period, except as provided below.
- R1.3 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.
- R1.4 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.
- R1.5 The Annual Return for the reporting period must be supplied to the EPA via eConnect *EPA* or 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').
- R1.6 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.
- R1.7 Within the Annual Return, the Statements 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.

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.

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

R2 Notification of environmental harm

- R2.1 Notifications must be made by telephoning the Environment Line service on 131 555.
- R2.2 The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred.

Note: The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.

Environment Protection Licence

Licence - 5186



R3 Written report

- R3.1 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.
- R3.2 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.
- R3.3 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;
 - 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; and
 - g) any other relevant matters.
- R3.4 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.

R4 Other reporting conditions

- R4.1 The licensee must notify the occurrence of fires on the premises in accordance with condition R2.1 and R3.1 as soon as practical after becoming aware of the fire.

7 General Conditions

G1 Copy of licence kept at the premises or plant

- G1.1 A copy of this licence must be kept at the premises to which the licence applies.
- G1.2 The licence must be produced to any authorised officer of the EPA who asks to see it.
- G1.3 The licence must be available for inspection by any employee or agent of the licensee working at the

Environment Protection Licence



Licence - 5186

premises.

8 Pollution Studies and Reduction Programs

U1 Operational Water Balance

U1.1 The licensee must monitor and prepare a report (the "report") on an operational water balance for the premises which includes at least the following information:

1. monitoring data on rainfall, evaporation rate and the actual levels of leachate in the landfill and the leachate pond in which the water balance is recalculated using actual measured parameters (with daily time steps for 12 consecutive months);
2. comparison of the actual volume of leachate generated with the volumes predicted in *Report on Water Balance Study* (Project No. 45531) prepared for Brandown Pty Ltd by Douglas Partners Pty Ltd dated August 2008;
3. weather monitoring data for the premises (rainfall and evaporation);
4. the quantities of leachate transferred to the leachate pond, injected and disposed of off-site and other relevant monitoring data;
5. a determination of whether it is possible for the leachate pond to contain (without overflowing) the leachate generated from the design yearly rainfall of 1252mm for operating cell 4 until it is capped; and
6. advice with supporting data on the percentage per month of rainfall and groundwater which becomes leachate in Cell 4 per month.

U1.2 The report is to be submitted to Senior Manager Waste Compliance, EPA, PO Box A290, Sydney South 1232, by no later than *(date to be added when notice issued - due date 13 months after notice issued)*

U2 Detailed Groundwater Assessment

U2.1 The licensee must complete a detailed groundwater assessment of all groundwater and leachate wells on the premises and include up-gradient groundwater wells labelled MWA and MWB shown in "*Douglas Partners Report on Leachate Pumping Test*" dated November 2015. The groundwater assessment must test for all analytes listed in the table under licence condition M2.3. MWA and MWB must be sampled for the same analytes listed for groundwater wells under condition M2.3.

U2.2 The licensee must engage a suitably qualified environmental consultant that is approved by the EPA and provide a groundwater sampling methodology.

U2.3 The Licensee is to provide a detailed groundwater assessment report by 5pm Friday 29 June 2018.

The report must include;

- A detailed inspection of all current groundwater wells at the Premises that include current well condition, total depth of well and descriptions of any sediment build-up or blockage;
- The time, date and locations of samples collected;
- Field sampling sheets with details of monitoring parameters including pH, electrical conductivity,

Environment Protection Licence



Licence - 5186

temperature, dissolved oxygen and redox potential;

- Field observations of water quality including colour, odour, and standing water level intervals;
- The use of a low-flow sampling technique capable of controlling flow rates to minimise drawdown of the aquifer head; and
- Provide a figure with groundwater contours, elevations and flow direction.

9 Special Conditions

E1 Financial assurance

- E1.1 The financial assurance, in favour of the EPA, in the amount of one million dollars (\$1,000,000) must be maintained while activities are carried out under environment protection licence 5186 (EPL 5186) and environment protection licence 12618 (EPL 12618) and thereafter until such time as the EPA is satisfied the premises outlined in EPL 5186 and EPL 12618 are environmentally secure.
- E1.2 The financial assurance must be replenished by the full amount claimed or realised if the EPA has claimed on or realised the financial assurance or any part of it to undertake a work or program required to be carried out by EPL 5186 and/or EPL 12618 which has not been undertaken by the licence holder.
- E1.3 The EPA may increase the amount of the financial assurance at any time as a result of reassessment of the total likely costs and expenses of rehabilitation of the premises noted in EPL 5186 and/or EPL 12618.
- E1.4 The licensee must provide to the EPA the original counterpart guarantee within five working days of the issue of:
- a) the adjusted financial assurance as required by condition E1.3
- E1.5 The EPA may claim on the financial assurance under s303 of the POEO Act if a licensee fails to carry out any work or program required to comply with the conditions of EPL 5186 and/or EPL 12618, or a clean-up notice issued under section 91 of the *Protection of the Environment Operations Act 1997* in relation to the premises noted on EPL 5186 and/or EPL 12618.

E2 Cell 5 Construction

- E2.1 The licensee must construct Cell 5 in accordance with the designs, specifications, methods and construction quality assurance plan contained in the Report on Proposed Landfill Cell No. 5 Project 45532.45 R.003.05 July 2019 Prepared by Douglas Partners (DOC19/593360-1) and Cell 5 Landfill Development Construction Quality Assurance (CQA) Plan Project Number ISA-162-18-19 26 April 2019 prepared by In Situ Advisory Pty Ltd (DOC19/485367-4). This includes a leachate barrier comprising, from bottom to top:

On the floor of the cell:

- a. a 500 mm thick compacted sub-base of crushed shale
- b. a geosynthetic clay liner
- c. a 2 mm thick high-density polyethylene liner
- d. a protection geotextile
- e. a leachate collection layer comprising 300 mm of drainage gravel (rounded river gravel) and collection

Environment Protection Licence

Licence - 5186



pipework
f. a separation geotextile.

On the walls of the cell:

- a. a geonet drainage geocomposite under the liner to intercept infiltration
- b. a 1000 mm thick compacted shale liner with an in situ hydraulic conductivity of less than 1×10^{-9} m/s
- c. a 2 mm thick high-density polyethylene geomembrane
- d. a protection geotextile.

E2.2 Following construction of Cell 5, the licensee must submit a Construction Quality Assurance (CQA) Report containing:

- a. details and evidence of the works installed, the testing conducted, and the quality assurance procedures implemented;
- b. an account of any variations to the approved designs, methods and specifications; and
- c. an opinion by an appropriately qualified and experienced construction quality assurance practitioner on the conformance of the works with the approved designs, methods and specifications.

E2.3 The licensee must not deposit waste in Cell 5 until the EPA has approved the CQA Report and given written approval to commence filling.

Environment Protection Licence

Licence - 5186

Dictionary

General Dictionary

3DGM [in relation to a concentration limit]	Means the three day geometric mean, which is calculated by multiplying the results of the analysis of three samples collected on consecutive days and then taking the cubed root of that amount. Where one or more of the samples is zero or below the detection limit for the analysis, then 1 or the detection limit respectively should be used in place of those samples
Act	Means the Protection of the Environment Operations Act 1997
activity	Means a scheduled or non-scheduled activity within the meaning of the Protection of the Environment Operations Act 1997
actual load	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
AM	Together with a number, means an ambient air monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
AMG	Australian Map Grid
anniversary date	The anniversary date is the anniversary each year of the date of issue of the licence. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
annual return	Is defined in R1.1
Approved Methods Publication	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
assessable pollutants	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
BOD	Means biochemical oxygen demand
CEM	Together with a number, means a continuous emission monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
COD	Means chemical oxygen demand
composite sample	Unless otherwise specifically approved in writing by the EPA, a sample consisting of 24 individual samples collected at hourly intervals and each having an equivalent volume.
cond.	Means conductivity
environment	Has the same meaning as in the Protection of the Environment Operations Act 1997
environment protection legislation	Has the same meaning as in the Protection of the Environment Administration Act 1991
EPA	Means Environment Protection Authority of New South Wales.
fee-based activity classification	Means the numbered short descriptions in Schedule 1 of the Protection of the Environment Operations (General) Regulation 2009.
general solid waste (non-putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997

Environment Protection Licence

Licence - 5186

flow weighted composite sample	Means a sample whose composites are sized in proportion to the flow at each composites time of collection.
general solid waste (putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
grab sample	Means a single sample taken at a point at a single time
hazardous waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
licensee	Means the licence holder described at the front of this licence
load calculation protocol	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
local authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
material harm	Has the same meaning as in section 147 Protection of the Environment Operations Act 1997
MBAS	Means methylene blue active substances
Minister	Means the Minister administering the Protection of the Environment Operations Act 1997
mobile plant	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
motor vehicle	Has the same meaning as in the Protection of the Environment Operations Act 1997
O&G	Means oil and grease
percentile [in relation to a concentration limit of a sample]	Means that percentage [eg.50%] of the number of samples taken that must meet the concentration limit specified in the licence for that pollutant over a specified period of time. In this licence, the specified period of time is the Reporting Period unless otherwise stated in this licence.
plant	Includes all plant within the meaning of the Protection of the Environment Operations Act 1997 as well as motor vehicles.
pollution of waters [or water pollution]	Has the same meaning as in the Protection of the Environment Operations Act 1997
premises	Means the premises described in condition A2.1
public authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
regional office	Means the relevant EPA office referred to in the Contacting the EPA document accompanying this licence
reporting period	For the purposes of this licence, the reporting period means the period of 12 months after the issue of the licence, and each subsequent period of 12 months. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
restricted solid waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
scheduled activity	Means an activity listed in Schedule 1 of the Protection of the Environment Operations Act 1997
special waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
TM	Together with a number, means a test method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .

Environment Protection Licence



Licence - 5186

TSP	Means total suspended particles
TSS	Means total suspended solids
Type 1 substance	Means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or more of those elements
Type 2 substance	Means the elements beryllium, chromium, cobalt, manganese, nickel, selenium, tin or vanadium or any compound containing one or more of those elements
utilisation area	Means any area shown as a utilisation area on a map submitted with the application for this licence
waste	Has the same meaning as in the Protection of the Environment Operations Act 1997
waste type	Means liquid, restricted solid waste, general solid waste (putrescible), general solid waste (non - putrescible), special waste or hazardous waste

Ms Nadia Kanhoush

Environment Protection Authority

(By Delegation)

Date of this edition: 21-December-2000

Environment Protection Licence



Licence - 5186

End Notes

- 1 Licence varied by notice 1024201, issued on 09-Oct-2003, which came into effect on 03-Nov-2003.
- 2 Licence varied by notice 1032508, issued on 18-Nov-2003, which came into effect on 13-Dec-2003.
- 3 Licence varied by notice 1043715, issued on 02-Jun-2005, which came into effect on 27-Jun-2005.
- 4 Licence varied by notice 1049104, issued on 12-Jul-2005, which came into effect on 06-Aug-2005.
- 5 Licence varied by notice 1050663, issued on 12-Aug-2005, which came into effect on 01-Sep-2005.
- 6 Licence varied by notice 1051516, issued on 02-Sep-2005, which came into effect on 27-Sep-2005.
- 7 Licence varied by notice 1053429, issued on 01-Dec-2005, which came into effect on 26-Dec-2005.
- 8 Licence varied by notice 1063385, issued on 28-Feb-2007, which came into effect on 28-Feb-2007.
- 9 Licence varied by notice 1071515, issued on 12-Sep-2007, which came into effect on 12-Sep-2007.
- 10 Licence varied by notice 1080254, issued on 16-Nov-2007, which came into effect on 16-Nov-2007.
- 11 Licence varied by notice 1080704, issued on 12-Sep-2008, which came into effect on 12-Sep-2008.
- 12 Licence varied by notice 1093240, issued on 31-Oct-2008, which came into effect on 31-Oct-2008.
- 13 Condition A1.3 Not applicable varied by notice issued on <issue date> which came into effect on <effective date>
- 14 Licence varied by notice 1115874, issued on 28-Jun-2010, which came into effect on 28-Jun-2010.
- 15 Licence varied by correction to DECCW Region data record, issued on 07-Jul-2010, which came into effect on 07-Jul-2010.
- 16 Licence varied by notice 1118444, issued on 03-Dec-2010, which came into effect on 03-Dec-2010.
- 17 Licence varied by notice 1518646 issued on 16-Apr-2014
- 18 Licence varied by notice 1548534 issued on 05-Feb-2018

Environment Protection Licence

Licence - 5186



19	Licence varied by notice	1563440 issued on 09-Apr-2018
20	Licence varied by notice	1564013 issued on 06-Jul-2018
21	Licence varied by notice	1573711 issued on 06-Feb-2019
22	Licence varied by notice	1583033 issued on 13-Aug-2019

Environment Protection Licence

Licence - 11155



Environment,
Climate Change
& Water

Licence Details

Number:	11155
Anniversary Date:	10-November

Licensee

SOUTH COAST LIQUID TREATMENT PTY. LTD
PO BOX 132
SUSSEX INLET NSW 2540

Licence Type

Premises

Premises

13 TOM THUMB AVENUE
NOWRA NSW 2541

Scheduled Activity

Waste storage
Waste processing (non-thermal treatment)

Fee Based Activity

Non-thermal treatment of hazardous and other waste

Scale

0 - All

Region

Waste Operations (Wollongong)
59-61 Goulburn Street
SYDNEY NSW 2000
Phone: 02 9995 5000
Fax: 02 9995 5999

PO Box A290 SYDNEY SOUTH
NSW 1232



INFORMATION ABOUT THIS LICENCE.....	4
Dictionary.....	4
Responsibilities of licensee.....	4
Variation of licence conditions	4
Duration of licence	4
Licence review	4
Fees and annual return to be sent to the EPA.....	4
Transfer of licence	5
Public register and access to monitoring data.....	5
1 ADMINISTRATIVE CONDITIONS	5
A1 What the licence authorises and regulates	5
A2 Premises to which this licence applies.....	6
A3 Other activities	6
A4 Information supplied to the EPA.....	7
2 DISCHARGES TO AIR AND WATER AND APPLICATIONS TO LAND.....	7
P1 Location of monitoring/discharge points and areas.....	7
P2 No discharges to air, water or land	7
3 LIMIT CONDITIONS.....	7
L1 Pollution of waters.....	7
L2 Load limits.....	8
L3 Concentration limits.....	8
L4 Volume and mass limits	8
L5 Waste	8
L6 Noise Limits.....	9
L7 Polychlorinated Biphenyls (PCBs)	9
4 OPERATING CONDITIONS.....	9
O1 Activities must be carried out in a competent manner.....	9
O2 Maintenance of plant and equipment	10
O3 Emergency Response Plan.....	10
O4 Processes and management.....	10
O5 Environmental systems	10
5 MONITORING AND RECORDING CONDITIONS	10
M1 Monitoring records.....	10
M2 Requirement to monitor concentration of pollutants discharged	11
M3 Testing methods - concentration limits.....	11
M4 Recording of pollution complaints	11
M5 Telephone complaints line.....	11
M6 Requirement to monitor volume or mass	12
6 REPORTING CONDITIONS.....	12

Environment Protection Licence



Licence - 11155

R1	Annual return documents	12
R2	Notification of environmental harm.....	13
R3	Written report	14
GENERAL CONDITIONS.....		14
G1	Copy of licence kept at the premises	14
POLLUTION STUDIES AND REDUCTION PROGRAMS		15
U1	Not applicable.	15
SPECIAL CONDITIONS.....		15
DICTIONARY		15
	General Dictionary	15

Information about this licence

Dictionary

A definition of terms used in the licence can be found in the dictionary at the end of this licence.

Responsibilities of licensee

Separate to the requirements of this licence, general obligations of licensees are set out in the Protection of the Environment Operations Act 1997 ("the Act") and the Regulations made under the Act. These include obligations to:

- ensure persons associated with you comply with this licence, as set out in section 64 of the Act;
- control the pollution of waters and the pollution of air (see for example sections 120 - 132 of the Act); and
- report incidents causing or threatening material environmental harm to the environment, as set out in Part 5.7 of the Act.

Variation of licence conditions

The licence holder can apply to vary the conditions of this licence. An application form for this purpose is available from the EPA.

The EPA may also vary the conditions of the licence at any time by written notice without an application being made.

Where a licence has been granted in relation to development which was assessed under the Environmental Planning and Assessment Act 1979 in accordance with the procedures applying to integrated development, the EPA may not impose conditions which are inconsistent with the development consent conditions until the licence is first reviewed under Part 3.6 of the Act.

Duration of licence

This licence will remain in force until the licence is surrendered by the licence holder or until it is suspended or revoked by the EPA or the Minister. A licence may only be surrendered with the written approval of the EPA.

Licence review

The Act requires that the EPA review your licence at least every 5 years after the issue of the licence, as set out in Part 3.6 and Schedule 5 of the Act. You will receive advance notice of the licence review.

Fees and annual return to be sent to the EPA

For each licence fee period you must pay:

- an administrative fee; and
- a load-based fee (if applicable).

The EPA publication "A Guide to Licensing" contains information about how to calculate your licence fees.

The licence requires that an Annual Return, comprising a Statement of Compliance and a summary of any monitoring required by the licence (including the recording of complaints), be submitted to the EPA. The Annual Return must be submitted within 60 days after the end of each reporting period. See condition R1 regarding the Annual Return reporting requirements.

Usually the licence fee period is the same as the reporting period.

Transfer of licence

The licence holder can apply to transfer the licence to another person. An application form for this purpose is available from the EPA.

Public register and access to monitoring data

Part 9.5 of the Act requires the EPA to keep a public register of details and decisions of the EPA in relation to, for example:

- licence applications;
- licence conditions and variations;
- statements of compliance;
- load based licensing information; and
- load reduction agreements.

Under s320 of the Act application can be made to the EPA for access to monitoring data which has been submitted to the EPA by licensees.

This licence is issued to:

SOUTH COAST LIQUID TREATMENT PTY. LTD
PO BOX 132
SUSSEX INLET NSW 2540

subject to the conditions which follow.

1 Administrative conditions

A1 What the licence authorises and regulates

A1.1 Not applicable.

A1.2 This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, fee-based activity classification and the scale of the operation.

Licence - 11155

Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition.

Scheduled Activity
Waste storage
Waste processing (non-thermal treatment)

Fee Based Activity	Scale
Non-thermal treatment of hazardous and other waste	0 - All

A1.3 Not applicable.

A2 Premises to which this licence applies

A2.1 The licence applies to the following premises:

Premises Details
13 TOM THUMB AVENUE
NOWRA
NSW
2541
LOT 68 DP1046768

A3 Other activities

A3.1 Not applicable.

A4 Information supplied to the EPA

A4.1 Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence.

In this condition the reference to "the licence application" includes a reference to:

- (a) the applications for any licences (including former pollution control approvals) which this licence replaces under the Protection of the Environment Operations (Savings and Transitional) Regulation 1998; and
- (b) the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence.

2 Discharges to air and water and applications to land

P1 Location of monitoring/discharge points and areas

P1.1 Not applicable.

P1.2 Not applicable.

P1.3 Not applicable.

P2 No discharges to air, water or land

P2.1 The facility must be maintained and operated such that there are no discharges of pollutants to air, water or land.

P2.2 For the purposes of this condition discharges to sewer under the terms of a trade waste agreement or commercial disposal of liquid to another waste processing facility or to another industrial user for beneficial reuse are not discharges to water.

3 Limit conditions

L1 Pollution of waters

L1.1 Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the Protection of the Environment Operations Act 1997.

Licence - 11155

L2 Load limits

L2.1 Not applicable.

L2.2 Not applicable.

L3 Concentration limits

L3.1 Not applicable.

L3.2 Not applicable.

L3.3 Not applicable.

L4 Volume and mass limits

L4.1 Not applicable.

L5 Waste

L5.1 The licensee must not cause, permit or allow any waste to be received at the premises, except the wastes expressly referred to in the column titled "Waste" and meeting the definition, if any, in the column titled "Description" in the table below.

Any waste received at the premises must only be used for the activities referred to in relation to that waste in the column titled "Activity" in the table below.

Any waste received at the premises is subject to those limits or conditions, if any, referred to in relation to that waste contained in the column titled "Other Limits" in the table below.

Condition L5.1 does not limit any other conditions in this licence.

Code	Waste	Description	Activity	Other Limits
J100	Waste mineral oils unfit for their original intended use		Storage	
J120	Waste oil/water, hydrocarbons/water mixtures or emulsions		Storage and Processing (non-thermal treatment)	
K110	Grease trap waste		Storage and Processing (non-thermal treatment)	
K120	Liquid Food Waste		Storage	
K130	Sewage sludge and residues including nightsoil and septic tank sludge		Storage and Processing (non-thermal treatment)	

Licence - 11155

NA	Drilling mud		Storage and Processing (non-thermal treatment)	Only drilling mud that is not contaminated with substances listed in Schedule 1 of the Protection of the Environment Operations (Waste) Regulation.
NA	General or Specific exempted waste	Waste that meets all the conditions of a resource recovery exemption under Clause 51A of the <i>Protection of the Environment Operations (Waste) Regulation 2005</i>	As specified in each particular resource recovery exemption.	NA
NA		Any waste received on site that is below licensing thresholds in Schedule 1 of the POEO Act, as in force from time to time		NA

L5.2 Not applicable.

L6 Noise Limits

L6.1 Not applicable.

L6.2 Not applicable.

L7 Polychlorinated Biphenyls (PCBs)**4 Operating conditions****O1 Activities must be carried out in a competent manner**

O1.1 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.

O2 Maintenance of plant and equipment

- O2.1 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.

O3 Emergency Response Plan

- O3.1 The licensee must maintain, and implement as necessary, a current emergency response plan for the premises. The licensee must keep the emergency response plan on the premises at all times. The emergency response plan must document systems and procedures to deal with all types of incidents (e.g. spills, explosions or fire) that may occur at the premises or that may be associated with activities that occur at the premises and which are likely to cause harm to the environment. If a current emergency response plan does not exist at the date on which this condition is attached to the licence, the licensee must develop an emergency response plan within three months of that date.

O4 Processes and management

- O4.1 The licensee must ensure that any liquid and/or non liquid waste for treatment, processing, reprocessing or disposal at the premises is assessed and classified in accordance with the DECC Waste Classification Guidelines as in force from time to time.
- O4.2 The licensee must ensure that waste identified for recycling is stored separately from other waste.

O5 Environmental systems

- O5.1 All above ground tanks containing material that is likely to cause environmental harm must be bunded or have an alternative spill containment system in place.
- O5.2 The licensee must ensure that suitable measures (e.g. high/low level alarms, control valves with interlock control, one way valves etc) are installed on all tanks, ponds or clarifiers and associated pipes and hoses to prevent spills of material that could cause harm to the environment.

5 Monitoring and recording conditions

M1 Monitoring records

- M1.1 The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.
- M1.2 All records required to be kept by this licence must be:
- (a) in a legible form, or in a form that can readily be reduced to a legible form;

Licence - 11155

- (b) kept for at least 4 years after the monitoring or event to which they relate took place; and
- (c) produced in a legible form to any authorised officer of the EPA who asks to see them.

M1.3 The following records must be kept in respect of any samples required to be collected for the purposes of this licence:

- (a) the date(s) on which the sample was taken;
- (b) the time(s) at which the sample was collected;
- (c) the point at which the sample was taken; and
- (d) the name of the person who collected the sample.

M2 Requirement to monitor concentration of pollutants discharged

M2.1 Not applicable.

M3 Testing methods - concentration limits

M3.1 Not applicable.

M3.2 Not applicable.

M4 Recording of pollution complaints

M4.1 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.

M4.2 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.

M4.3 The record of a complaint must be kept for at least 4 years after the complaint was made.

M4.4 The record must be produced to any authorised officer of the EPA who asks to see them.

M5 Telephone complaints line

Licence - 11155

- M5.1 The licensee must operate during its operating hours a 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.
- M5.2 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.
- M5.3 Conditions M5.1 and M5.2 do not apply until 3 months after:
- (a) the date of the issue of this licence or
 - (b) if this licence is a replacement licence within the meaning of the Protection of the Environment Operations (Savings and Transitional) Regulation 1998, the date on which a copy of the licence was served on the licensee under clause 10 of that regulation.

M6 Requirement to monitor volume or mass

- M6.1 Not applicable.

6 Reporting conditions

R1 Annual return documents

What documents must an Annual Return contain?

- R1.1 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

- R1.2 An Annual Return must be prepared in respect of each reporting period, 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.

- R1.3 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.

- R1.4 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

- R1.5 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').

Notification where actual load can not be calculated

- R1.6 Not applicable.

Licensee must retain copy of Annual Return

- R1.7 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

- R1.8 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.

- R1.9 A person who has been given written approval to certify a certificate 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 of this licence.

R2 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.

- R2.1 Notifications must be made by telephoning the Environment Line service on 131 555.

- R2.2 The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred.

R3 Written report

- R3.1 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.
- R3.2 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.
- R3.3 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;
 - (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; and
 - (g) any other relevant matters.
- R3.4 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

G1 Copy of licence kept at the premises

- G1.1 A copy of this licence must be kept at the premises to which the licence applies.
- G1.2 The licence must be produced to any authorised officer of the EPA who asks to see it.
- G1.3 The licence must be available for inspection by any employee or agent of the licensee working at the premises.

Pollution studies and reduction programs

U1 Not applicable.

Special conditions

Dictionary

General Dictionary

In this licence, unless the contrary is indicated, the terms below have the following meanings:

3DGM [in relation to a concentration limit]	Means the three day geometric mean, which is calculated by multiplying the results of the analysis of three samples collected on consecutive days and then taking the cubed root of that amount. Where one or more of the samples is zero or below the detection limit for the analysis, then 1 or the detection limit respectively should be used in place of those samples
Act	Means the Protection of the Environment Operations Act 1997
activity	Means a scheduled or non-scheduled activity within the meaning of the Protection of the Environment Operations Act 1997
actual load	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 1998
AM	Together with a number, means an ambient air monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
AMG	Australian Map Grid
anniversary date	The anniversary date is the anniversary each year of the date of issue of the licence. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
annual return	Is defined in R1.1
Approved Methods Publication	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 1998
assessable pollutants	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 1998
BOD	Means biochemical oxygen demand
CEM	Together with a number, means a continuous emission monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
COD	Means chemical oxygen demand
composite sample	Unless otherwise specifically approved in writing by the EPA, a sample consisting of 24 individual samples collected at hourly intervals and each having an equivalent volume.

Licence - 11155

cond.	Means conductivity
environment	Has the same meaning as in the Protection of the Environment Operations Act 1997
environment protection legislation	Has the same meaning as in the Protection of the Environment Administration Act 1991
EPA	Means Environment Protection Authority of New South Wales.
fee-based activity classification	Means the numbered short descriptions in Schedule 1 of the Protection of the Environment Operations (General) Regulation 1998.
flow weighted composite sample	Means a sample whose composites are sized in proportion to the flow at each composites time of collection.
general solid waste (non-putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
general solid waste (putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
grab sample	Means a single sample taken at a point at a single time
hazardous waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
licensee	Means the licence holder described at the front of this licence
load calculation protocol	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 1998
local authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
material harm	Has the same meaning as in section 147 Protection of the Environment Operations Act 1997
MBAS	Means methylene blue active substances
Minister	Means the Minister administering the Protection of the Environment Operations Act 1997
mobile plant	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
motor vehicle	Has the same meaning as in the Protection of the Environment Operations Act 1997
Noise	Means "sound pressure levels"
Noise sensitive locations	Means buildings used as residence, hospital, school, child care centre, places of public worship and nursing homes. A noise sensitive location includes the land within 30 metres of the building
NSW Industrial Noise Policy	Means the document titled "NSW Industrial Noise Policy" published by the Environment Protection Authority in January 2000
O&G	Means oil and grease
percentile [in relation to a concentration limit of a sample]	Means that percentage [eg.50%] of the number of samples taken that must meet the concentration limit specified in the licence for that pollutant over a specified period of time. In this licence, the specified period of time is the Reporting Period unless otherwise stated in this licence.
plant	Includes all plant within the meaning of the Protection of the Environment Operations Act 1997 as well as motor vehicles.
pollution of waters	Has the same meaning as in the Protection of the Environment Operations Act 1997



Licence - 11155

[or water pollution]

premises	Means the premises described in condition A2.1
public authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
regional office	Means the relevant EPA office referred to in the Contacting the EPA document accompanying this licence
reporting period	For the purposes of this licence, the reporting period means the period of 12 months after the issue of the licence, and each subsequent period of 12 months. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
restricted solid waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
scheduled activity	Means an activity listed in Schedule 1 of the Protection of the Environment Operations Act 1997
special waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
TM	Together with a number, means a test method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
TSP	Means total suspended particles
TSS	Means total suspended solids
Type 1 substance	Means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or more of those elements
Type 2 substance	Means the elements beryllium, chromium, cobalt, manganese, nickel, selenium, tin or vanadium or any compound containing one or more of those elements
utilisation area	Means any area shown as a utilisation area on a map submitted with the application for this licence
waste	Has the same meaning as in the Protection of the Environment Operations Act 1997
waste type	Means liquid, restricted solid waste, general solid waste (putrescible), general solid waste (non-putrescible), special waste or hazardous waste

Mr Peter Bloem

Environment Protection Authority

(By Delegation)

Date of this edition - 29-Jun-2011

End Notes

1	Licence varied by notice 1004922, issued on 26-Mar-2001, which came into effect on 20-Apr-2001.
2	Licence varied by notice 1037160, issued on 29-Jul-2004, which came into effect on 23-Aug-2004.
3	Licence varied by change to DEC Region allocation, issued on 03-Mar-2006, which came into effect on 03-Mar-2006.
4	Licence varied by notice 1057106, issued on 27-Apr-2006, which came into effect on 27-Apr-2006.
5	Licence varied by notice 1061221, issued on 09-Jun-2006, which came into effect on 09-Jun-2006.
6	Licence varied by correction to DEC region, issued on 12-Apr-2007, which came into effect on 12-Apr-2007.
7	Condition A1.3 Not applicable varied by notice issued on <issue date> which came into effect on <effective date>
8	Licence varied by notice 1093349, issued on 01-Dec-2008, which came into effect on 01-Dec-2008.
9	Licence varied by Correction to EPA Region data record., issued on 28-Jun-2010, which came into effect on 28-Jun-2010.
10	Licence varied by notice 1129791, issued on 29-Jun-2011, which came into effect on 29-Jun-2011.

Environment Protection Licence

Licence - 5958

Licence Details	
Number:	5958
Anniversary Date:	09-October

Licensee
THE COUNCIL OF THE MUNICIPALITY OF KIAMA
PO BOX 75
KIAMA NSW 2533

Premises
MINNAMURRA WASTE DISPOSAL & RECYCLING FACILITY
446 RIVERSIDE DRIVE
MINNAMURRA NSW 2533

Scheduled Activity
Resource recovery
Waste storage

Fee Based Activity	Scale
Recovery of general waste	Any general waste recovered
Waste storage - hazardous, restricted solid, liquid, clinical and related waste and asbestos waste	Any listed waste type stored
Waste storage - other types of waste	Any other types of waste stored

Region
Regional Waste Compliance
59-61 Goulburn Street
SYDNEY NSW 2000
Phone: (02) 9995 5000
Fax: (02) 9995 5999
PO Box A290
SYDNEY SOUTH NSW 1232

Environment Protection Licence



Licence - 5958

INFORMATION ABOUT THIS LICENCE	4
Dictionary	4
Responsibilities of licensee	4
Variation of licence conditions	4
Duration of licence	4
Licence review	4
Fees and annual return to be sent to the EPA	4
Transfer of licence	5
Public register and access to monitoring data	5
1 ADMINISTRATIVE CONDITIONS	6
A1 What the licence authorises and regulates	6
A2 Premises or plant to which this licence applies	6
A3 Information supplied to the EPA	6
2 DISCHARGES TO AIR AND WATER AND APPLICATIONS TO LAND	7
P1 Location of monitoring/discharge points and areas	7
3 LIMIT CONDITIONS	9
L1 Pollution of waters	9
L2 Waste	9
L3 Potentially offensive odour	11
4 OPERATING CONDITIONS	11
O1 Activities must be carried out in a competent manner	11
O2 Maintenance of plant and equipment	11
O3 Dust	12
O4 Emergency response	12
O5 Processes and management	12
O6 Waste management	12
5 MONITORING AND RECORDING CONDITIONS	12
M1 Monitoring records	12
M2 Requirement to monitor concentration of pollutants discharged	13
M3 Testing methods - concentration limits	14
M4 Recording of pollution complaints	15
M5 Telephone complaints line	15
6 REPORTING CONDITIONS	15
R1 Annual return documents	15



Environment Protection Licence

Licence - 5958

R2	Notification of environmental harm	17
R3	Written report	17
R4	Other reporting conditions	18
7	GENERAL CONDITIONS	18
G1	Copy of licence kept at the premises or plant	18
8	SPECIAL CONDITIONS	18
E1	Inspection and Maintenance of Landfill Closure Works	18
E2	Landfill closure plan	19
E3	Environmental Obligations of Licensee (Works & Programs)	19
DICTIONARY		21
	General Dictionary	21

Environment Protection Licence

Licence - 5958



Information about this licence

Dictionary

A definition of terms used in the licence can be found in the dictionary at the end of this licence.

Responsibilities of licensee

Separate to the requirements of this licence, general obligations of licensees are set out in the Protection of the Environment Operations Act 1997 (“the Act”) and the Regulations made under the Act. These include obligations to:

- ensure persons associated with you comply with this licence, as set out in section 64 of the Act;
- control the pollution of waters and the pollution of air (see for example sections 120 - 132 of the Act);
- report incidents causing or threatening material environmental harm to the environment, as set out in Part 5.7 of the Act.

Variation of licence conditions

The licence holder can apply to vary the conditions of this licence. An application form for this purpose is available from the EPA.

The EPA may also vary the conditions of the licence at any time by written notice without an application being made.

Where a licence has been granted in relation to development which was assessed under the Environmental Planning and Assessment Act 1979 in accordance with the procedures applying to integrated development, the EPA may not impose conditions which are inconsistent with the development consent conditions until the licence is first reviewed under Part 3.6 of the Act.

Duration of licence

This licence will remain in force until the licence is surrendered by the licence holder or until it is suspended or revoked by the EPA or the Minister. A licence may only be surrendered with the written approval of the EPA.

Licence review

The Act requires that the EPA review your licence at least every 5 years after the issue of the licence, as set out in Part 3.6 and Schedule 5 of the Act. You will receive advance notice of the licence review.

Fees and annual return to be sent to the EPA

For each licence fee period you must pay:

- an administrative fee; and
- a load-based fee (if applicable).

Environment Protection Licence



Licence - 5958

The EPA publication “A Guide to Licensing” contains information about how to calculate your licence fees. The licence requires that an Annual Return, comprising a Statement of Compliance and a summary of any monitoring required by the licence (including the recording of complaints), be submitted to the EPA. The Annual Return must be submitted within 60 days after the end of each reporting period. See condition R1 regarding the Annual Return reporting requirements.

Usually the licence fee period is the same as the reporting period.

Transfer of licence

The licence holder can apply to transfer the licence to another person. An application form for this purpose is available from the EPA.

Public register and access to monitoring data

Part 9.5 of the Act requires the EPA to keep a public register of details and decisions of the EPA in relation to, for example:

- licence applications;
- licence conditions and variations;
- statements of compliance;
- load based licensing information; and
- load reduction agreements.

Under s320 of the Act application can be made to the EPA for access to monitoring data which has been submitted to the EPA by licensees.

This licence is issued to:

THE COUNCIL OF THE MUNICIPALITY OF KIAMA
PO BOX 75
KIAMA NSW 2533

subject to the conditions which follow.

Environment Protection Licence

Licence - 5958

1 Administrative Conditions

A1 What the licence authorises and regulates

A1.1 This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, fee-based activity classification and the scale of the operation.

Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition.

Scheduled Activity	Fee Based Activity	Scale
Resource recovery	Recovery of general waste	Any general waste recovered
Waste storage	Waste storage - hazardous, restricted solid, liquid, clinical and related waste and asbestos waste	Any listed waste type stored
Waste storage	Waste storage - other types of waste	Any other types of waste stored

A2 Premises or plant to which this licence applies

A2.1 The licence applies to the following premises:

Premises Details
MINNAMURRA WASTE DISPOSAL & RECYCLING FACILITY
446 RIVERSIDE DRIVE
MINNAMURRA
NSW 2533
LOT 1 DP 439772, LOT 1 DP 659767, LOT 1 DP 1108856

A3 Information supplied to the EPA

A3.1 Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence.

In this condition the reference to "the licence application" includes a reference to:

- the applications for any licences (including former pollution control approvals) which this licence replaces under the Protection of the Environment Operations (Savings and Transitional) Regulation 1998; and
- the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence.

A3.2 The Minnamurra Waste Management Facility Draft Landfill Environmental Management Plan dated

Environment Protection Licence

Licence - 5958



November 1997 is not to be taken as part of the documentation in condition A3.1, other than those parts specifically referenced in this licence.

2 Discharges to Air and Water and Applications to Land

P1 Location of monitoring/discharge points and areas

P1.1 The following points referred to in the table below are identified in this licence for the purposes of monitoring and/or the setting of limits for the emission of pollutants to the air from the point.

Air

EPA identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
16	Surface gas monitoring		Areas where intermediate or final cover has been placed.
17	Gas accumulation monitoring		Inside all buildings within 250 metres of the deposited waste.

P1.2 The following utilisation areas referred to in the table below are identified in this licence for the purposes of the monitoring and/or the setting of limits for any application of solids or liquids to the utilisation area.

P1.3 The following points referred to in the table are identified in this licence for the purposes of the monitoring and/or the setting of limits for discharges of pollutants to water from the point.

Water and land

EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
1	Groundwater monitoring		MD_1B as shown on the drawing titled "Water Quality Monitoring Boreholes - Minnamurra Waste Depot" dated 16/12/14 (EPA reference no. DOC19/816849).
2	Groundwater monitoring		MD_2A as shown on the drawing titled "Water Quality Monitoring Boreholes - Minnamurra Waste Depot" dated 16/12/14 (EPA reference no. DOC19/816849).
3	Groundwater monitoring		MD_2B as shown on the drawing titled "Water Quality Monitoring Boreholes - Minnamurra Waste Depot" dated 16/12/14 (EPA reference no. DOC19/816849).

Environment Protection Licence

Licence - 5958



4	Groundwater monitoring	MD_2C as shown on the drawing titled "Water Quality Monitoring Boreholes - Minnamurra Waste Depot" dated 16/12/14 (EPA reference no. DOC19/816849).
5	Groundwater monitoring	MD_4A as shown on the drawing titled "Water Quality Monitoring Boreholes - Minnamurra Waste Depot" dated 16/12/14 (EPA reference no. DOC19/816849).
6	Groundwater monitoring	MD_4B as shown on the drawing titled "Water Quality Monitoring Boreholes - Minnamurra Waste Depot" dated 16/12/14 (EPA reference no. DOC19/816849).
7	Groundwater monitoring	MD_4C as shown on the drawing titled "Water Quality Monitoring Boreholes - Minnamurra Waste Depot" dated 16/12/14 (EPA reference no. DOC19/816849).
8	Groundwater monitoring	MD_6A as shown on the drawing titled "Water Quality Monitoring Boreholes - Minnamurra Waste Depot" dated 16/12/14 (EPA reference no. DOC19/816849).
9	Groundwater monitoring	MD_6B as shown on the drawing titled "Water Quality Monitoring Boreholes - Minnamurra Waste Depot" dated 16/12/14 (EPA reference no. DOC19/816849).
10	Groundwater monitoring	MD_6C as shown on the drawing titled "Water Quality Monitoring Boreholes - Minnamurra Waste Depot" dated 16/12/14 (EPA reference no. DOC19/816849).
11	Groundwater monitoring	MD_9A as shown on the drawing titled "Water Quality Monitoring Boreholes - Minnamurra Waste Depot" dated 16/12/14 (EPA reference no. DOC19/816849).
12	Groundwater monitoring	MD_9B as shown on the drawing titled "Water Quality Monitoring Boreholes - Minnamurra Waste Depot" dated 16/12/14 (EPA reference no. DOC19/816849).
13	Groundwater monitoring	MD_9C as shown on the drawing titled "Water Quality Monitoring Boreholes - Minnamurra Waste Depot" dated 16/12/14 (EPA reference no. DOC19/816849).

Environment Protection Licence

Licence - 5958



14	Groundwater monitoring	MD_10A as shown on the drawing titled "Water Quality Monitoring Boreholes - Minnamurra Waste Depot" dated 16/12/14 (EPA reference no. DOC19/816849).
15	Groundwater monitoring	MD_10B as shown on the drawing titled "Water Quality Monitoring Boreholes - Minnamurra Waste Depot" dated 16/12/14 (EPA reference no. DOC19/816849).
18	Surface water monitoring	Rocklow Creek Upstream - As marked on map titled Minnamurra Waste and Recycling Facility surface water monitoring points EPL 5958 dated 19 August 2015 (DOC15/329070)
19	Surface water monitoring	Rocklow Creek Midstream - As marked on map titled Minnamurra Waste and Recycling Facility surface water monitoring points EPL 5958 dated 19 August 2015 (DOC15/329070)
20	Surface water monitoring	Rocklow Creek Downstream - As marked on map titled Minnamurra Waste and Recycling Facility surface water monitoring points EPL 5958 dated 19 August 2015 (DOC15/329070)

3 Limit Conditions

L1 Pollution of waters

L1.1 Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the Protection of the Environment Operations Act 1997.

L2 Waste

L2.1 The licensee must not cause, permit or allow any waste to be received at the premises, except the wastes expressly referred to in the column titled "Waste" and meeting the definition, if any, in the column titled "Description" in the table below.

Any waste received at the premises must only be used for the activities referred to in relation to that waste in the column titled "Activity" in the table below.

Any waste received at the premises is subject to those limits or conditions, if any, referred to in relation to that waste contained in the column titled "Other Limits" in the table below.

This condition does not limit any other conditions in this licence.

Environment Protection Licence

Licence - 5958



Code	Waste	Description	Activity	Other Limits
NA	Restricted solid waste	Restricted solid waste received under the NSW Community Recycling Centre program.	Waste storage	Total quantity stored at the premises must not exceed the permitted storage capacity of restricted solid waste at the Community Recycling Centre.
NA	Hazardous Wastes	Hazardous Wastes received under the NSW Community Recycling Centre program.	Waste storage	Total quantity stored at the premises must not exceed the permitted storage capacity of hazardous waste at the Community Recycling Centre.
NA	General solid waste (non-putrescible)	As defined in Schedule 1 of the Act as in force from time to time.	Waste storage Resource recovery	
NA	Liquid Waste	Liquid wastes received under the NSW Community Recycling Centre program	Waste storage	Total quantity stored at the premises must not exceed the permitted storage capacity of the liquid waste at the Community Recycling Centre.
R100	Sharps Waste	Syringes contained within non-reusable sharps containers that comply with AS4031-1992	Waste storage	The maximum amount of sharps waste stored at the premises must not exceed the capacity of a 240 litre receptacle at any one time.
NA	Waste tyres	As defined in Schedule 1 of the Act as in force from time to time.	Waste storage	The maximum amount of waste tyres to be stored at the premises must not exceed 200 tyres at any one time.
NA	Asbestos waste	As defined in Schedule 1 of the Act as in force from time to time.	Waste storage	The maximum amount of asbestos waste stored at the premises must

Environment Protection Licence

Licence - 5958



				not exceed the capacity of two 240 litre receptacle at any one time.
NA	Garden waste	As defined in Schedule 1 of the Act as in force from time to time	Resource recovery Waste storage	The total amount of garden waste received at the premises must not exceed 5,000 tonnes per annum
NA	Wood waste	As defined in Schedule 1 of the Act as in force from time to time	Resource recovery Waste storage	
NA	Building and demolition waste	As defined in Schedule 1 of the Act as in force from time to time	Resource recovery Waste storage	
NA	Virgin excavated natural material	As defined in Schedule 1 of the Act as in force from time to time	Waste storage	

L2.2 The authorised amount of waste permitted on the premises cannot exceed 10,000 tonnes at any time.

L3 Potentially offensive odour

L3.1 The licensee must not cause or permit the emission of offensive odour beyond the boundary of the premises.

4 Operating Conditions

O1 Activities must be carried out in a competent manner

O1.1 Licensed activities must be carried out in a competent manner.

This includes:

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

O2 Maintenance of plant and equipment

O2.1 All plant and equipment installed at the premises or used in connection with the licensed activity:

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

Environment Protection Licence

Licence - 5958



O3 Dust

- O3.1 All operations and activities occurring at the premises must be carried out in a manner that will minimise the emission of dust from the premises.

O4 Emergency response

- O4.1 The licensee must extinguish fires at the premises as soon as possible.

O5 Processes and management

- O5.1 The licensee must take all practicable steps to control entry to the premises.
- O5.2 The licensee must ensure that all gates are locked whenever the landfill is unattended.
- O5.3 The licensee must ensure that adequately trained staff are available at the premises in order to administer the requirements of this licence.

O6 Waste management

- O6.1 The licensee must not exhume any landfilled waste unless approved in writing by the EPA.
- O6.2 Vehicles leaving the premises must not track materials to external surfaces.
- O6.3 All leachate generated at the premises must be captured within an impermeable receptical (eg. lined pond or bunded tank) in order to prevent pollution of ground or surface waters.
- O6.4 Leachate, or stormwater containing leachate, must not be used for dust suppression.
- O6.5 Leachate must only be irrigated over well vegetated landfill batters and in suitable conditions to ensure no spray drift or offsite impacts.
- O6.6 All kerbside putrescible waste must be unloaded and stored within a fully enclosed bunded area.

5 Monitoring and Recording Conditions

M1 Monitoring records

- M1.1 The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.

Environment Protection Licence

Licence - 5958

M1.2 All records required to be kept by this licence must be:

- in a legible form, or in a form that can readily be reduced to a legible form;
- kept for at least 4 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.

M1.3 The following records must be kept in respect of any samples required to be collected for the purposes of this licence:

- 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.

M2 Requirement to monitor concentration of pollutants discharged

M2.1 For each monitoring/discharge point or utilisation area specified below (by a point number), the licensee must monitor (by sampling and obtaining results by analysis) the concentration of each pollutant specified in Column 1. The licensee must use the sampling method, units of measure, and sample at the frequency, specified opposite in the other columns:

M2.2 Air Monitoring Requirements

POINT 16

Pollutant	Units of measure	Frequency	Sampling Method
Methane	parts per million by volume	Every 6 months	Special Method 1

POINT 17

Pollutant	Units of measure	Frequency	Sampling Method
Methane	percent by volume	Every 6 months	Special Method 2

Note: Special Method 1 means in accordance with the procedures described in Section 5.2 of the Environmental Guidelines: Solid Waste Landfills (EPA, 2016).

Note: Special Method 2 means in accordance with the procedures described in Section 5.4 of the Environmental Guidelines: Solid Waste Landfills (EPA, 2016).

M2.3 Water and/ or Land Monitoring Requirements

POINT 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15

Environment Protection Licence



Licence - 5958

Pollutant	Units of measure	Frequency	Sampling Method
Standing Water Level	metres	Quarterly	In situ

POINT 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,18,19,20

Pollutant	Unit of measure	Frequency	Sampling Method
Alkalinity (as calcium carbonate)	milligrams per litre	Quarterly	Grab sample
Ammonia	milligrams per litre	Quarterly	Grab sample
Calcium	milligrams per litre	Quarterly	Grab sample
Chloride	milligrams per litre	Quarterly	Grab sample
Conductivity	siemens	Quarterly	Grab sample
Dissolved Oxygen	milligrams per litre	Quarterly	Grab sample
Fluoride	milligrams per litre	Quarterly	Grab sample
Iron	milligrams per litre	Quarterly	Grab sample
Magnesium	milligrams per litre	Quarterly	Grab sample
Manganese	milligrams per litre	Quarterly	Grab sample
Nitrate	milligrams per litre	Quarterly	Grab sample
pH	pH	Quarterly	Grab sample
Potassium	milligrams per litre	Quarterly	Grab sample
Sodium	milligrams per litre	Quarterly	Grab sample
Sulfate	milligrams per litre	Quarterly	Grab sample
Temperature	degrees Celsius	Quarterly	Grab sample
Total organic carbon	milligrams per litre	Quarterly	Grab sample
Total Phenolics	milligrams per litre	Quarterly	Grab sample

M3 Testing methods - concentration limits

M3.1 Monitoring for the concentration of a pollutant emitted to the air required to be conducted by this licence must be done in accordance with:

- any methodology which is required by or under the Act to be used for the testing of the concentration of the pollutant; or
- if no such requirement is imposed by or under the Act, any methodology which a condition of this licence requires to be used for that testing; or
- if no such requirement is imposed by or under the Act or by a condition of this licence, any methodology approved in writing by the EPA for the purposes of that testing prior to the testing taking place.

Note: The *Protection of the Environment Operations (Clean Air) Regulation 2010* requires testing for certain purposes to be conducted in accordance with test methods contained in the publication "Approved Methods for the Sampling and Analysis of Air Pollutants in NSW".

Environment Protection Licence



Licence - 5958

M3.2 Subject to any express provision to the contrary in this licence, monitoring for the concentration of a pollutant discharged to waters or applied to a utilisation area must be done in accordance with the Approved Methods Publication unless another method has been approved by the EPA in writing before any tests are conducted.

M4 Recording of pollution complaints

M4.1 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.

M4.2 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.

M4.3 The record of a complaint must be kept for at least 4 years after the complaint was made.

M4.4 The record must be produced to any authorised officer of the EPA who asks to see them.

M5 Telephone complaints line

M5.1 The licensee must operate during its operating hours a 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.

M5.2 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.

M5.3 The preceding two conditions do not apply until 3 months after: the date of the issue of this licence.

6 Reporting Conditions

R1 Annual return documents

R1.1 The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:

1. a Statement of Compliance,
2. a Monitoring and Complaints Summary,
3. a Statement of Compliance - Licence Conditions,

Environment Protection Licence



Licence - 5958

4. a Statement of Compliance - Load based Fee,
5. a Statement of Compliance - Requirement to Prepare Pollution Incident Response Management Plan,
6. a Statement of Compliance - Requirement to Publish Pollution Monitoring Data; and
7. a Statement of Compliance - Environmental Management Systems and Practices.

At 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.

R1.2 An Annual Return must be prepared in respect of each reporting period, 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.

R1.3 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.

R1.4 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.

R1.5 The Annual Return for the reporting period must be supplied to the EPA via eConnect *EPA* or 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').

R1.6 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.

R1.7 Within the Annual Return, the Statements 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.

R1.8 The Annual Return must be accompanied by/or include an Annual Report which must contain an assessment of environmental performance relevant to licence conditions including:

- a) tabulated results of all monitoring data required to be collected by this licence;
- b) a graphical presentation of data from at least the last three years (if available) in order to show variability and/or trends. Any statistically significant variations or anomalies should be highlighted and explained;
- c) an analysis and interpretation of all monitoring data;
- d) an analysis of and response to any complaints received;

Environment Protection Licence



Licence - 5958

- e) identification of any deficiencies in environmental performance identified by the monitoring data, trends or incidents and of remedial action taken or proposed to be taken to address these deficiencies; and
- f) recommendations on improving the environmental performance of the facility.

R2 Notification of environmental harm

Note: The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.

- R2.1 Notifications must be made by telephoning the Environment Line service on 131 555.
- R2.2 The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred.
- R2.3 The licensee must notify the EPA within 24 hours in accordance with condition R2.1 if gas accumulation monitoring required by monitoring point 17 detects methane above 1% (v/v), and increase the frequency of monitoring to daily, until the EPA determines otherwise.
- R2.4 The licensee must notify the EPA within 24 hours in accordance with condition R2.1 if surface gas monitoring required by monitoring point 16 detects methane above 500 ppm (v/v), and increase the frequency of monitoring to daily, until the EPA determines otherwise.

R3 Written report

- R3.1 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.
- R3.2 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.
- R3.3 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;
 - 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

Environment Protection Licence

Licence - 5958



such an event; and
g) any other relevant matters.

R3.4 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.

R4 Other reporting conditions

R4.1 The licensee must record the following data in relation to fires occurring at the premises:

- a) Time and date when the fire started.
- b) Whether the fire was authorised by the licensee, and, if not, the circumstances which ignited the fire.
- c) The time and date that the fire burnt out or was extinguished.
- d) The location of fire (eg. clean timber stockpile, putrescible garbage cell, etc).
- e) Prevailing weather conditions at the time of the fire.
- f) Observations made in regard to smoke direction and dispersion.
- g) The amount of waste that was combusted by the fire.
- h) Action taken to extinguish the fire;
- i) Action taken to prevent a reoccurrence.

The data must be recorded on each day that the fire is burning.

R4.2 The licensee must notify the EPA of all fires at the premises in accordance with conditions R2.1 and R2.2 immediately after becoming aware of the fire.

7 General Conditions

G1 Copy of licence kept at the premises or plant

G1.1 A copy of this licence must be kept at the premises to which the licence applies.

G1.2 The licence must be produced to any authorised officer of the EPA who asks to see it.

G1.3 The licence must be available for inspection by any employee or agent of the licensee working at the premises.

8 Special Conditions

E1 Inspection and Maintenance of Landfill Closure Works

E1.1 The licensee must implement the recommendations made in the Earth2Water Pty Ltd report titled Kiama Municipal Council – Rehabilitation of Minnamurra Waste Disposal Depot – Final Quality Control Report [2008] reference no. E2W-047 R001 dated 30 April 2008 in relation to post rehabilitation monitoring, as set out below:

Environment Protection Licence



Licence - 5958

- a) Undertake quarterly site inspections to assess the degree of differential settlement on the landfill crown;
- b) Initiate a weed management program to control existing weeds and avoid future weed infestation;
- c) Prepare or commission the preparation of a site management plan which must address at least vegetation, erosion, water quality and irrigation of the premises; and
- d) Implement the post-closure and monitoring plan as per Table 11.1 in the Implementation of Minnamurra Waste Disposal Depot Closure Plan (ref E2W-047 R001) dated October 2005 prepared by Earth2Water Pty Ltd for Kiama Municipal Council.

E2 Landfill closure plan

- E2.1 The licensee is required to implement the Implementation of Minnamurra Waste Disposal Depot Closure Plan (ref E2W-047 R001) dated October 2005 prepared by Earth2Water Pty Ltd for Kiama Municipal Council, except as provided otherwise in this licence.

E3 Environmental Obligations of Licensee (Works & Programs)

- E3.1 While the licensee's premises are being used for the purpose to which the licence relates, the licensee must:
- a) Clean up any spill, leak or other discharge of any waste(s) or other material(s) as soon as practicable after it becomes known to the licensee or to one of the licensee's employees or agents.
 - b) In the event(s) that any liquid and non-liquid waste(s) is unlawfully deposited on the premises, such waste(s) must be removed and lawfully disposed of as soon as practicable or in accordance with any direction given by the EPA.
 - c) Provide all monitoring data as required by the conditions of this licence or as directed by the EPA.
- E3.2 In the event of an earthquake, storm, fire, flood or any other event where it is reasonable to suspect that a pollution incident has occurred, is occurring or is likely to occur, the licensee (whether or not the premises continue to be used for the purposes to which the licence relates) must:
- a) make all efforts to contain all firewater on the licensee's premises,
 - b) make all efforts to control air pollution from the licensee's premises,
 - c) make all efforts to contain any discharge, spill or run-off from the licensee's premises,
 - d) make all efforts to prevent flood water entering the licensee's premises,
 - e) remediate and rehabilitate any exposed areas of soil and/or waste,
 - f) lawfully dispose of all liquid and solid waste(s) stored on the premises that is not already securely disposed of,
 - g) at the request of the EPA monitor groundwater beneath the licensee's premises and its potential to migrate from the licensee's premises,
 - h) at the request of the EPA monitor surface water leaving the licensee's premises; and
 - i) ensure the licensee's premises is secure.
- E3.3 After the licensee's premises cease to be used for the purpose to which the licence relates or in the event that the licensee ceases to carry out the activity that is the subject of this licence, that licensee must:
- a) Remove and lawfully dispose of all liquid and non-liquid waste stored on the licensee's premises that is not already securely disposed of;
 - b) rehabilitate the site, including conducting an assessment of and if required remediation of any site contamination.

Environment Protection Licence

Licence - 5958



Environment Protection Licence

Licence - 5958

Dictionary

General Dictionary

3DGM [in relation to a concentration limit]	Means the three day geometric mean, which is calculated by multiplying the results of the analysis of three samples collected on consecutive days and then taking the cubed root of that amount. Where one or more of the samples is zero or below the detection limit for the analysis, then 1 or the detection limit respectively should be used in place of those samples
Act	Means the Protection of the Environment Operations Act 1997
activity	Means a scheduled or non-scheduled activity within the meaning of the Protection of the Environment Operations Act 1997
actual load	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
AM	Together with a number, means an ambient air monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
AMG	Australian Map Grid
anniversary date	The anniversary date is the anniversary each year of the date of issue of the licence. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
annual return	Is defined in R1.1
Approved Methods Publication	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
assessable pollutants	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
BOD	Means biochemical oxygen demand
CEM	Together with a number, means a continuous emission monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
COD	Means chemical oxygen demand
composite sample	Unless otherwise specifically approved in writing by the EPA, a sample consisting of 24 individual samples collected at hourly intervals and each having an equivalent volume.
cond.	Means conductivity
environment	Has the same meaning as in the Protection of the Environment Operations Act 1997
environment protection legislation	Has the same meaning as in the Protection of the Environment Administration Act 1991
EPA	Means Environment Protection Authority of New South Wales.
fee-based activity classification	Means the numbered short descriptions in Schedule 1 of the Protection of the Environment Operations (General) Regulation 2009.
general solid waste (non-putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997

Environment Protection Licence

Licence - 5958

flow weighted composite sample	Means a sample whose composites are sized in proportion to the flow at each composites time of collection.
general solid waste (putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
grab sample	Means a single sample taken at a point at a single time
hazardous waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
licensee	Means the licence holder described at the front of this licence
load calculation protocol	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
local authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
material harm	Has the same meaning as in section 147 Protection of the Environment Operations Act 1997
MBAS	Means methylene blue active substances
Minister	Means the Minister administering the Protection of the Environment Operations Act 1997
mobile plant	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
motor vehicle	Has the same meaning as in the Protection of the Environment Operations Act 1997
O&G	Means oil and grease
percentile [in relation to a concentration limit of a sample]	Means that percentage [eg.50%] of the number of samples taken that must meet the concentration limit specified in the licence for that pollutant over a specified period of time. In this licence, the specified period of time is the Reporting Period unless otherwise stated in this licence.
plant	Includes all plant within the meaning of the Protection of the Environment Operations Act 1997 as well as motor vehicles.
pollution of waters [or water pollution]	Has the same meaning as in the Protection of the Environment Operations Act 1997
premises	Means the premises described in condition A2.1
public authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
regional office	Means the relevant EPA office referred to in the Contacting the EPA document accompanying this licence
reporting period	For the purposes of this licence, the reporting period means the period of 12 months after the issue of the licence, and each subsequent period of 12 months. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
restricted solid waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
scheduled activity	Means an activity listed in Schedule 1 of the Protection of the Environment Operations Act 1997
special waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
TM	Together with a number, means a test method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .

Environment Protection Licence



Licence - 5958

TSP	Means total suspended particles
TSS	Means total suspended solids
Type 1 substance	Means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or more of those elements
Type 2 substance	Means the elements beryllium, chromium, cobalt, manganese, nickel, selenium, tin or vanadium or any compound containing one or more of those elements
utilisation area	Means any area shown as a utilisation area on a map submitted with the application for this licence
waste	Has the same meaning as in the Protection of the Environment Operations Act 1997
waste type	Means liquid, restricted solid waste, general solid waste (putrescible), general solid waste (non - putrescible), special waste or hazardous waste

Ms Debbie Maddison

Environment Protection Authority

(By Delegation)

Date of this edition: 26-October-2000

Environment Protection Licence



Licence - 5958

End Notes

- 1 Licence varied by notice 1030241, issued on 20-Nov-2003, which came into effect on 15-Dec-2003.
- 2 Licence varied by notice 1043364, issued on 27-May-2005, which came into effect on 21-Jun-2005.
- 3 Licence varied by notice 1051634, issued on 06-Sep-2005, which came into effect on 01-Oct-2005.
- 4 Licence varied by change to DEC Region allocation, issued on 17-Mar-2006, which came into effect on 17-Mar-2006.
- 5 Licence varied by notice 1058343, issued on 04-Jul-2006, which came into effect on 04-Jul-2006.
- 6 Licence varied by change to EPA Region, issued on 07-Aug-2006, which came into effect on 07-Aug-2006.
- 7 Licence varied by notice 1078396, issued on 24-Sep-2007, which came into effect on 24-Sep-2007.
- 8 Licence varied by notice 1081320, issued on 12-Mar-2008, which came into effect on 12-Mar-2008.
- 9 Condition A1.3 Not applicable varied by notice issued on <issue date> which came into effect on <effective date>
- 10 Licence varied by notice 1087738, issued on 05-Jan-2009, which came into effect on 05-Jan-2009.
- 11 Licence varied by Correction to EPA Regional data record., issued on 24-Jun-2010, which came into effect on 24-Jun-2010.
- 12 Licence varied by notice 1506329 issued on 04-Dec-2012
- 13 Licence varied by notice 1525462 issued on 04-Nov-2014
- 14 Licence varied by notice 1532352 issued on 11-Sep-2015
- 15 Licence varied by notice 1544952 issued on 02-Nov-2016
- 16 Licence varied by notice 1547580 issued on 12-Jan-2017
- 17 Licence varied by notice 1584741 issued on 02-Dec-2019

Environment Protection Licence

Licence - 5877

Licence Details	
Number:	5877
Anniversary Date:	30-October

Licensee
SHOALHAVEN CITY COUNCIL
PO BOX 42
NOWRA NSW 2541

Premises
WEST NOWRA RECYCLING AND WASTE FACILITY
FLAT ROCK ROAD
MUNDAMIA NSW 2540

Scheduled Activity
Composting
Waste disposal (application to land)
Waste processing (non-thermal treatment)
Waste storage

Fee Based Activity	Scale
Composting	> 5000-50000 T annual capacity to receive organics
Non-thermal treatment of general waste	Any annual processing capacity
Waste disposal by application to land	Any capacity
Waste storage - other types of waste	Any other types of waste stored

Region
Regional Waste Compliance
59-61 Goulburn Street
SYDNEY NSW 2000
Phone: (02) 9995 5000
Fax: (02) 9995 5999
PO Box A290
SYDNEY SOUTH NSW 1232



Environment Protection Licence

Licence - 5877

INFORMATION ABOUT THIS LICENCE	4
Dictionary	4
Responsibilities of licensee	4
Variation of licence conditions	4
Duration of licence	4
Licence review	4
Fees and annual return to be sent to the EPA	4
Transfer of licence	5
Public register and access to monitoring data	5
1 ADMINISTRATIVE CONDITIONS	6
A1 What the licence authorises and regulates	6
A2 Premises or plant to which this licence applies	6
A3 Information supplied to the EPA	6
2 DISCHARGES TO AIR AND WATER AND APPLICATIONS TO LAND	7
P1 Location of monitoring/discharge points and areas	7
3 LIMIT CONDITIONS	10
L1 Pollution of waters	10
L2 Concentration limits	10
L3 Waste	10
L4 Potentially offensive odour	11
4 OPERATING CONDITIONS	11
O1 Activities must be carried out in a competent manner	11
O2 Maintenance of plant and equipment	12
O3 Dust	12
O4 Emergency response	12
O5 Processes and management	12
O6 Waste management	12
5 MONITORING AND RECORDING CONDITIONS	14
M1 Monitoring records	14
M2 Requirement to monitor concentration of pollutants discharged	15
M3 Testing methods - concentration limits	21
M4 Recording of pollution complaints	21
M5 Telephone complaints line	22
M6 Requirement to monitor volume or mass	22



Environment Protection Licence

Licence - 5877

M7	Other monitoring and recording conditions	22
6	REPORTING CONDITIONS	22
R1	Annual return documents	22
R2	Notification of environmental harm	24
R3	Written report	24
R4	Other reporting conditions	25
7	GENERAL CONDITIONS	25
G1	Copy of licence kept at the premises or plant	25
DICTIONARY	.....	26
General Dictionary	.....	26

Environment Protection Licence

Licence - 5877



Information about this licence

Dictionary

A definition of terms used in the licence can be found in the dictionary at the end of this licence.

Responsibilities of licensee

Separate to the requirements of this licence, general obligations of licensees are set out in the Protection of the Environment Operations Act 1997 ("the Act") and the Regulations made under the Act. These include obligations to:

- ensure persons associated with you comply with this licence, as set out in section 64 of the Act;
- control the pollution of waters and the pollution of air (see for example sections 120 - 132 of the Act);
- report incidents causing or threatening material environmental harm to the environment, as set out in Part 5.7 of the Act.

Variation of licence conditions

The licence holder can apply to vary the conditions of this licence. An application form for this purpose is available from the EPA.

The EPA may also vary the conditions of the licence at any time by written notice without an application being made.

Where a licence has been granted in relation to development which was assessed under the Environmental Planning and Assessment Act 1979 in accordance with the procedures applying to integrated development, the EPA may not impose conditions which are inconsistent with the development consent conditions until the licence is first reviewed under Part 3.6 of the Act.

Duration of licence

This licence will remain in force until the licence is surrendered by the licence holder or until it is suspended or revoked by the EPA or the Minister. A licence may only be surrendered with the written approval of the EPA.

Licence review

The Act requires that the EPA review your licence at least every 5 years after the issue of the licence, as set out in Part 3.6 and Schedule 5 of the Act. You will receive advance notice of the licence review.

Fees and annual return to be sent to the EPA

For each licence fee period you must pay:

- an administrative fee; and
- a load-based fee (if applicable).

Environment Protection Licence



Licence - 5877

The EPA publication “A Guide to Licensing” contains information about how to calculate your licence fees. The licence requires that an Annual Return, comprising a Statement of Compliance and a summary of any monitoring required by the licence (including the recording of complaints), be submitted to the EPA. The Annual Return must be submitted within 60 days after the end of each reporting period. See condition R1 regarding the Annual Return reporting requirements.

Usually the licence fee period is the same as the reporting period.

Transfer of licence

The licence holder can apply to transfer the licence to another person. An application form for this purpose is available from the EPA.

Public register and access to monitoring data

Part 9.5 of the Act requires the EPA to keep a public register of details and decisions of the EPA in relation to, for example:

- licence applications;
- licence conditions and variations;
- statements of compliance;
- load based licensing information; and
- load reduction agreements.

Under s320 of the Act application can be made to the EPA for access to monitoring data which has been submitted to the EPA by licensees.

This licence is issued to:

SHOALHAVEN CITY COUNCIL
PO BOX 42
NOWRA NSW 2541

subject to the conditions which follow.

Environment Protection Licence

Licence - 5877

1 Administrative Conditions

A1 What the licence authorises and regulates

A1.1 This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, fee-based activity classification and the scale of the operation.

Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition.

Scheduled Activity	Fee Based Activity	Scale
Composting	Composting	> 5000 - 50000 T annual capacity to receive organics
Waste processing (non-thermal treatment)	Non-thermal treatment of general waste	Any annual processing capacity
Waste disposal (application to land)	Waste disposal by application to land	Any capacity
Waste storage	Waste storage - other types of waste	Any other types of waste stored

A2 Premises or plant to which this licence applies

A2.1 The licence applies to the following premises:

Premises Details
WEST NOWRA RECYCLING AND WASTE FACILITY
FLAT ROCK ROAD
MUNDAMIA
NSW 2540
LOT 436 DP 808415, LOT 437 DP 808415, LOT 1 DP 847203, LOT 1 DP 870268, LOT 1 DP 1018193
EXCLUDING THE GAS GENERATOR AND GAS FLARE AS SHOWN ON PLAN REFERENCE NO. 2824_182 DATED 18 AUGUST 2011 (EPA REFERENCE DOC11/38133)

A3 Information supplied to the EPA

A3.1 Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence.

In this condition the reference to "the licence application" includes a reference to:

a) the applications for any licences (including former pollution control approvals) which this licence

Environment Protection Licence

Licence - 5877



replaces under the Protection of the Environment Operations (Savings and Transitional) Regulation 1998; and

b) the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence.

- A3.2 The document titled "Draft Landfill Environment Management Plan (LEMP), West Nowra Recycling & Waste Depot, Flatrock Road, West Nowra; Ref No. 9723127.G; December 1997" submitted to the EPA on 19 December 1997 is not to be taken as part of the documentation in A3.1, other than those parts specifically referenced in this licence.

2 Discharges to Air and Water and Applications to Land

P1 Location of monitoring/discharge points and areas

- P1.1 The following points referred to in the table below are identified in this licence for the purposes of monitoring and/or the setting of limits for the emission of pollutants to the air from the point.

Air

EPA identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
24	Gas accumulation monitoring		Inside all buildings within 250 meters of deposited waste.
37	Surface Gas Emission Monitoring		Areas where intermediate or final cover has been placed

- P1.2 The following utilisation areas referred to in the table below are identified in this licence for the purposes of the monitoring and/or the setting of limits for any application of solids or liquids to the utilisation area.

- P1.3 The following points referred to in the table are identified in this licence for the purposes of the monitoring and/or the setting of limits for discharges of pollutants to water from the point.

Water and land

EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
1	Leachate Quality Monitoring		Leachate dam LD1 as shown on drawing 2824_16 referenced as EPA WOF9346
2	Overflow drain	Overflow drain	Overflow from first flush dam DP2 as shown on drawing 2824_16 referenced as EPA WOF9346
3	Overflow drain	Overflow drain	Overflow from sedimentation dam 1 DP3 as shown on drawing 2824_16 referenced as EPA WOF9346

Environment Protection Licence

Licence - 5877



5	Surface water monitoring	Immediately downstream from the leachate dam at the boundary of the site as shown on drawing 2824_16 referenced as EPA WOF9346
6	Surface water monitoring	Upstream of site in Sandy Creek as shown on drawing 2824_16 referenced as EPA WOF9346.
7	Surface water monitoring	Downstream of site in Sandy Creek as shown on drawing 2824_16 referenced as EPA WOF9346.
8	Groundwater monitoring	Groundwater monitoring well labelled BH1 on diagram titled "Bore Location Plan" dated 17/01/14 (DOC14/6276-01) E275936 N6137766
9	Groundwater monitoring	Groundwater monitoring well labelled BH2 on diagram titled "Bore Location Plan" dated 17/01/14 (DOC14/6276-01). E275914 N6137656
11	Groundwater monitoring	Groundwater monitoring well labelled BH4A on diagram titled "Bore Location Plan" dated 17/01/14 (DOC14/6276-01) E275896 N6137573
13	Groundwater monitoring	Groundwater monitoring well labelled BH6 on diagram titled "Bore Location Plan" dated 17/01/14 (DOC14/6276-01) E275871 N6137469
14	Groundwater monitoring	Groundwater monitoring well labelled BH7 on diagram titled "Bore Location Plan" dated 17/01/14 (DOC14/6276-01) E275872 N6137469
17	Groundwater monitoring	Groundwater monitoring well labelled BH10 on diagram titled "Bore Location Plan" dated 17/01/14 (DOC14/6276-01) E275775 N6137366
18	Groundwater monitoring	Groundwater monitoring well labelled BH11 on diagram titled "Bore Location Plan" dated 17/01/14 (DOC14/6276-01) E275830 N6137492
20	Groundwater monitoring	Groundwater monitoring well labelled BH13 on diagram titled "Bore Location Plan" May 17/01/14 (DOC14/6276-07) E275996 N6137489

Environment Protection Licence



Licence - 5877

21	Groundwater monitoring	Groundwater monitoring well labelled BH14 on diagram titled "Bore Location Plan" dated 17/01/14 (DOC14/6276-01) E276421 N6137653
25	Leachate Volume Monitoring	Pipeline from Leachate Dam (LD1) to irrigation area as shown on drawing 2824_16 referenced as EPA WOF 9346
26	Utilisation Area	Irrigation area as shown on drawing 2824_16 referenced as EPA WOF9346
27	Leachate Volume and Quality	leachate pumphouse for Stage 3
29	Groundwater monitoring	Groundwater monitoring well labelled BH16 on diagram titled "Bore Location Plan" dated 17/01/14 (DOC14/6276-01) E275750 E6137137
30	Groundwater monitoring	Groundwater monitoring well labelled BH17 on diagram titled "Bore Location Plan" dated 17/01/14 (DOC14/6276-01) E275750 N6137142
31	Groundwater monitoring	Groundwater monitoring well labelled BH18 on diagram titled "Bore Location Plan" dated 17/01/14 (DOC14/6276-01) E275707 N6137202
32	Groundwater monitoring	Groundwater monitoring well labelled BH19 on diagram titled "Bore Location Plan" dated 17/01/14 (DOC14/6276-01) E276132 N6137061
33	Groundwater monitoring	Groundwater monitoring well labelled BH20 on diagram titled "Bore Location Plan" dated 17/01/14 (DOC14/6276-01) E276171 N6137736
34	Groundwater Monitoring	Groundwater monitoring well labelled BH21 on diagram titled "Bore Location Plan" dated 17/01/14 (DOC14/6276-01) E275742 N6136900
35	Groundwater monitoring	Groundwater monitoring well labelled BH22 on diagram titled "Bore Location Plan" dated 17/01/14 (DOC14/6276-01) E275821 N6136791
36	Groundwater monitoring	Groundwater monitoring well labelled BH23 on diagram titled "Bore Location Plan" dated 17/01/14 (DOC14/6276-01) E275942 N6136774

Environment Protection Licence

Licence - 5877

3 Limit Conditions

L1 Pollution of waters

- L1.1 Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the Protection of the Environment Operations Act 1997.

L2 Concentration limits

- L2.1 For each monitoring/discharge point or utilisation area specified in the table\&s below (by a point number), the concentration of a pollutant discharged at that point, or applied to that area, must not exceed the concentration limits specified for that pollutant in the table.
- L2.2 Where a pH quality limit is specified in the table, the specified percentage of samples must be within the specified ranges.
- L2.3 To avoid any doubt, this condition does not authorise the pollution of waters by any pollutant other than those specified in the table\&s.
- L2.4 Water and/or Land Concentration Limits

POINT 2,3

Pollutant	Units of Measure	50 percentile concentration limit	90 percentile concentration limit	3DGM concentration limit	100 percentile concentration limit
pH	pH				6.5-8.5
Total suspended solids	milligrams per litre				50

L3 Waste

- L3.1 The licensee must not cause, permit or allow any waste to be received at the premises, except the wastes expressly referred to in the column titled "Waste" and meeting the definition, if any, in the column titled "Description" in the table below.
- Any waste received at the premises must only be used for the activities referred to in relation to that waste in the column titled "Activity" in the table below.
- Any waste received at the premises is subject to those limits or conditions, if any, referred to in relation to

Environment Protection Licence

Licence - 5877

that waste contained in the column titled "Other Limits" in the table below.
This condition does not limit any other conditions in this licence.

Code	Waste	Description	Activity	Other Limits
NA	General solid waste (non-putrescible)	As defined in Schedule 1 of the Act, as in force from time to time	Waste disposal (application to land) Waste storage Composting Waste processing (non-thermal treatment)	NA
NA	General solid waste (putrescible)	As defined in Schedule 1 of the Act, as in force from time to time	Waste disposal (application to land)	NA
NA	Asbestos waste	As defined in Schedule 1 of the Act, as in force from time to time	Waste disposal (application to land)	NA
NA	Waste tyres	As defined in Schedule 1 of the Act, as in force from time to time	Waste disposal (application to land)	NA

L3.2 The stockpiles of waste or recovered materials must not exceed the following limits at any one time:

- Processed and unprocessed garden waste and/or wood waste – 5,000 tonnes;
- Processed and unprocessed building and demolition waste – 10,000 tonnes;
- Scrap metal – 5,000 tonnes; and
- Glass – 5,000 tonnes.

L3.3 The licensee must not dispose of any tyres on the premises which;

- have a diameter of less than 1.2 metres; and
- are delivered at the premises in a load containing more than 5 whole tyres; and
- became waste in the Sydney Metropolitan Area.

L3.4 Tyres stockpiled on the premises must:

- not exceed fifty (50) tonnes of tyres at any one time; and
- be located in a clearly defined area away from the tipping face; and
- be managed to control vermin; and
- be managed to prevent any tyres from catching fire.

L4 Potentially offensive odour

L4.1 The licensee must not cause or permit the emission of offensive odour beyond the boundary of the premises.

4 Operating Conditions

O1 Activities must be carried out in a competent manner

Environment Protection Licence



Licence - 5877

O1.1 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.

O2 Maintenance of plant and equipment

O2.1 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.

O3 Dust

O3.1 All operations and activities occurring at the premises must be carried out in a manner that will minimise the emission of dust from the premises.

O4 Emergency response

O4.1 The licensee must have in place and implement procedures to minimise the risk of fire at the premises.

O4.2 The licensee must extinguish fires at the premises as soon as possible.

O5 Processes and management

O5.1 The licensee must take all practicable steps to control entry to the premises.

O5.2 The licensee must ensure that all gates are locked whenever the landfill is unattended.

O6 Waste management

O6.1 Leachate impounded in the surface leachate storage ponds and leachate collected by the subsurface leachate collection system may be irrigated on the following utilisation area(s):

- a) Point No. 26 - Irrigation Area; and
- b) Irrigation at tip face.

O6.2 The volume of leachate directed to the utilisation area must not exceed the capacity of the area to assimilate the leachate.

O6.3 The landfill surface must be contoured to ensure that stormwater is managed separately from leachate.

Environment Protection Licence



Licence - 5877

O6.4 a) Daily cover

Daily cover must be either:

- i) virgin excavated natural material (VENM); or
- ii) approved alternative daily cover.

Note: for the purpose of condition O6.4 (a) (i) the 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.

Note: for the purpose of condition O6.4 (a) (ii) the approved ADC is the "tarpLOX" Automatic Tarp Deployment System (ATDS) applied to achieve the Required Outcomes of the Chapter 8 (Covering of Waste) of the EPA's Environmental Guidelines: Solid Waste Landfills (2016).

b) Intermediate cover

Intermediate cover material must be VENM and must be applied to a depth of 30 centimetres over surfaces of the landfilled waste at the premises which are to be exposed for more than 90 days.

c) Cover material stockpile

At least two weeks of VENM cover material must be available at the premises under all weather conditions. This material may be won on site, or alternatively a cover stockpile must be maintained adjacent to the tip face.

O6.5 Asbestos waste disposed of at the site must be covered:

- a. initially at the time of disposal with either VENM to a depth of 0.15 metres or general solid waste to a depth of 0.5 metres; and
- b. at the end of each day's operation with either VENM to a depth of 0.5 metres or general solid waste to a depth of at least 1 metre, followed by daily cover.

O6.6 The licensee must have in place and implement procedures to identify and prevent the disposal of any waste not permitted by this licence to be disposed of at the premises.

O6.7 Vehicles leaving the premises must not track materials to external surfaces.

O6.8 The licensee must only dispose of waste at the premises in landfill cell stages 3C-2, 3D-2, 3E-1 and 3E-2 or the Wet Weather Area unless the EPA amends this licence to expressly permit waste disposal elsewhere at the premises.

Note: For the purposes of this condition, "Wet Weather Area" refers to the area labelled "Wet Weather Tipping Area 1" and "Wet Weather Tipping Area 2" on the drawing "West Nowra Recycling and Waste Facility – Wet Weather Tipping Areas - Site Plan" (Plan Reference: 2824_252) dated 11 December 2014 (EPA Reference DOC14/308730).

O6.9 The licensee must not exhume any landfilled waste unless approved in writing by the EPA.

O6.10 The licensee must obtain approval from the EPA prior to constructing any landfill cells at the premises.

O6.11 The licensee must provide a report to the EPA which details the design, construction, operation and rehabilitation of any new landfill cell. This report must be submitted to the EPA at least six months before the licensee intends to construct the cell, and it must include details on a QA/QC program which can

Environment Protection Licence



Licence - 5877

demonstrate that the cell was constructed to meet its design specifications.

- O6.12 The licensee must construct landfill cell 3F in accordance with the designs, specifications, methods and construction quality assurance plan contained in "Landfill Cell Stage 3F - Preliminary Design and Construction Specifications" dated 20 November 2018 and associated drawings. This includes a leachate barrier on the cell floor and walls comprising, from bottom to top:
- a prepared sub-grade;
 - a geosynthetic clay liner;
 - a geomembrane;
 - a protection geotextile;
 - a leachate collection layer comprising 300 mm of gravel and collection pipework. A geonet drainage geocomposite may be used as an alternative to the gravel drainage material along the landfill cell batter walls; and
 - a separation geotextile.
- O6.13 Following construction of landfill cell 3F, the licensee must submit a Construction Quality Assurance Report on the quality assurances that were implemented to ensure that the works comply with the approved designs, specifications and methods.
- O6.14 The licensee must not deposit any waste in landfill cell 3F until the EPA has approved the Construction Quality Assurance Report in writing.
- O6.15 The licensee must ensure that the landfill cells are capped progressively during operations and specifically at times when the level of waste reaches final heights.
- O6.16 The licensee must ensure that the final capping of all landfill cells is in accordance with EPA's "Environmental Guidelines: Solid Waste Landfills, Second Edition" dated 2016.
- O6.17 The last licensee must prepare and submit to the EPA within six months prior to the last load of waste being landfilled, a closure plan in accordance with section 76 of the Protection of the Environment Operations Act 1997.

5 Monitoring and Recording Conditions

M1 Monitoring records

- M1.1 The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.
- M1.2 All records required to be kept by this licence must be:
- in a legible form, or in a form that can readily be reduced to a legible form;
 - kept for at least 4 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.
- M1.3 The following records must be kept in respect of any samples required to be collected for the purposes of this licence:
- the date(s) on which the sample was taken;

Environment Protection Licence

Licence - 5877

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

M2 Requirement to monitor concentration of pollutants discharged

M2.1 For each monitoring/discharge point or utilisation area specified below (by a point number), the licensee must monitor (by sampling and obtaining results by analysis) the concentration of each pollutant specified in Column 1. The licensee must use the sampling method, units of measure, and sample at the frequency, specified opposite in the other columns:

M2.2 Air Monitoring Requirements

POINT 24

Pollutant	Units of measure	Frequency	Sampling Method
Methane	percent by volume	Every 6 months	Special Method 1

POINT 37

Pollutant	Units of measure	Frequency	Sampling Method
Methane	parts per million by volume	Every 6 months	Special Method 2

Note: Special method 1 means as per section 5.4 of the *Environmental Guidelines: Solid Waste Landfills second edition 2016*.

Note: Special method 2 means as per section 5.2 of *Environmental Guidelines: Solid Waste Landfills second edition 2016*.

M2.3 Water and/ or Land Monitoring Requirements

POINT 1

Pollutant	Units of measure	Frequency	Sampling Method
Alkalinity (as calcium carbonate)	milligrams per litre	Yearly	Grab sample
Aluminium	milligrams per litre	Yearly	Grab sample
Arsenic	milligrams per litre	Yearly	Grab sample
Barium	milligrams per litre	Yearly	Grab sample
Benzene	milligrams per litre	Yearly	Grab sample
Bicarbonate	milligrams per litre	Yearly	Grab sample

Environment Protection Licence

Licence - 5877

Cadmium	milligrams per litre	Yearly	Grab sample
Calcium	milligrams per litre	Yearly	Grab sample
Carbonate	milligrams per litre	Yearly	Grab sample
Chloride	milligrams per litre	Yearly	Grab sample
Chromium (hexavalent)	milligrams per litre	Yearly	Grab sample
Chromium (total)	milligrams per litre	Yearly	Grab sample
Cobalt	milligrams per litre	Yearly	Grab sample
Conductivity	microsiemens per centimetre	Yearly	Probe
Copper	milligrams per litre	Yearly	Grab sample
Ethyl benzene	milligrams per litre	Yearly	Grab sample
Fluoride	milligrams per litre	Yearly	Grab sample
Lead	milligrams per litre	Yearly	Grab sample
Magnesium	milligrams per litre	Yearly	Grab sample
Manganese	milligrams per litre	Yearly	Grab sample
Mercury	milligrams per litre	Yearly	Grab sample
Nitrate	milligrams per litre	Yearly	Grab sample
Nitrite	milligrams per litre	Yearly	Grab sample
Nitrogen (ammonia)	milligrams per litre	Yearly	Grab sample
Organochlorine pesticides	milligrams per litre	Yearly	Grab sample
Organophosphate pesticides	milligrams per litre	Yearly	Grab sample
pH	pH	Yearly	Probe
Phosphate	milligrams per litre	Yearly	Grab sample
Phosphorus (total)	milligrams per litre	Yearly	Grab sample
Polycyclic aromatic hydrocarbons	milligrams per litre	Yearly	Grab sample
Potassium	milligrams per litre	Yearly	Grab sample
Sodium	milligrams per litre	Yearly	Grab sample
Sulfate	milligrams per litre	Yearly	Grab sample
Toluene	milligrams per litre	Yearly	Grab sample
Total dissolved solids	milligrams per litre	Yearly	Grab sample
Total organic carbon	milligrams per litre	Yearly	Grab sample
Total petroleum hydrocarbons	milligrams per litre	Yearly	Grab sample
Total Phenolics	milligrams per litre	Yearly	Grab sample
Total suspended solids	milligrams per litre	Yearly	Grab sample
Xylene	milligrams per litre	Yearly	Grab sample
Zinc	milligrams per litre	Yearly	Grab sample

POINT 2,3

Pollutant	Units of measure	Frequency	Sampling Method
-----------	------------------	-----------	-----------------

Environment Protection Licence

Licence - 5877

pH	pH	Daily during any discharge	Grab sample
Total suspended solids	milligrams per litre	Daily during any discharge	Grab sample

POINT 5,6,7

Pollutant	Units of measure	Frequency	Sampling Method
Biochemical oxygen demand	milligrams per litre	Quarterly	Grab sample
Conductivity	microsiemens per centimetre	Quarterly	Probe
Dissolved Oxygen	milligrams per litre	Quarterly	Probe
Nitrogen (ammonia)	milligrams per litre	Quarterly	Grab sample
pH	pH	Quarterly	Grab sample
Potassium	milligrams per litre	Quarterly	Grab sample
Total dissolved solids	milligrams per litre	Quarterly	Grab sample
Total organic carbon	milligrams per litre	Quarterly	Grab sample

POINT 9,11,14,17,18,20,21,29,30,31,32,33,34,35,36

Pollutant	Units of measure	Frequency	Sampling Method
Alkalinity (as calcium carbonate)	milligrams per litre	Quarterly	Grab sample
Aluminium	milligrams per litre	Yearly	Grab sample
Arsenic	milligrams per litre	Yearly	Grab sample
Barium	milligrams per litre	Yearly	Grab sample
Benzene	milligrams per litre	Yearly	Grab sample
Bicarbonate	milligrams per litre	Yearly	Grab sample
Cadmium	milligrams per litre	Yearly	Grab sample
Calcium	milligrams per litre	Quarterly	Grab sample
Carbonate	milligrams per litre	Yearly	Grab sample
Chloride	milligrams per litre	Quarterly	Grab sample
Chromium (hexavalent)	milligrams per litre	Yearly	Grab sample
Chromium (total)	milligrams per litre	Yearly	Grab sample
Cobalt	milligrams per litre	Yearly	Grab sample
Copper	milligrams per litre	Yearly	Grab sample
Ethyl benzene	milligrams per litre	Yearly	Grab sample
Fluoride	milligrams per litre	Yearly	Grab sample
Lead	milligrams per litre	Yearly	Grab sample
Magnesium	milligrams per litre	Yearly	Grab sample
Manganese	milligrams per litre	Yearly	Grab sample
Mercury	milligrams per litre	Yearly	Grab sample
Nitrate	milligrams per litre	Yearly	Grab sample
Nitrite	milligrams per litre	Yearly	Grab sample

Environment Protection Licence

Licence - 5877

Nitrogen (ammonia)	milligrams per litre	Quarterly	Grab sample
Organochlorine pesticides	milligrams per litre	Yearly	Grab sample
Organophosphate pesticides	milligrams per litre	Yearly	Grab sample
pH	pH	Quarterly	Probe
Phosphate	milligrams per litre	Yearly	Grab sample
Polycyclic aromatic hydrocarbons	milligrams per litre	Yearly	Grab sample
Potassium	milligrams per litre	Quarterly	Grab sample
Redox potential	millivolts	Yearly	Probe
Sodium	milligrams per litre	Quarterly	Grab sample
Standing Water Level	metres	Quarterly	In situ
Sulfate	milligrams per litre	Quarterly	Grab sample
Toluene	milligrams per litre	Yearly	Grab sample
Total dissolved solids	milligrams per litre	Quarterly	Grab sample
Total organic carbon	milligrams per litre	Quarterly	Grab sample
Total petroleum hydrocarbons	milligrams per litre	Yearly	Grab sample
Total Phenolics	milligrams per litre	Yearly	Grab sample
Xylene	milligrams per litre	Yearly	Grab sample
Zinc	milligrams per litre	Yearly	Grab sample

POINT 13

Pollutant	Units of measure	Frequency	Sampling Method
2,3,4,5-Tetrachlorophenol	nanograms per litre	Yearly	Grab sample
2,3,4,6-Tetrachlorophenol	nanograms per litre	Yearly	Grab sample
2,3,4-trichlorophenol	nanograms per litre	Yearly	Grab sample
2,3,5,6-tetrachlorophenol	nanograms per litre	Yearly	Grab sample
2,3,5-trichlorophenol	nanograms per litre	Yearly	Grab sample
2,3,6-trichlorophenol	nanograms per litre	Yearly	Grab sample
2,3-dichlorophenol	nanograms per litre	Yearly	Grab sample
2,4,5-trichlorophenol	nanograms per litre	Yearly	Grab sample
2,4,6-trichlorophenol	nanograms per litre	Yearly	Grab sample
2,4-Dichlorophenol	nanograms per litre	Yearly	Grab sample
2,5-dichlorophenol	nanograms per litre	Yearly	Grab sample
2,6-dichlorophenol	nanograms per litre	Yearly	Grab sample
2-Chlorophenol	nanograms per litre	Yearly	Grab sample
3,4-dichlorophenol	nanograms per litre	Yearly	Grab sample
3,5-dichlorophenol	nanograms per litre	Yearly	Grab sample
3-chlorophenol	nanograms per litre	Yearly	Grab sample
4-Chlorophenol	nanograms per litre	Yearly	Grab sample

Environment Protection Licence

Licence - 5877

Alkalinity (as calcium carbonate)	milligrams per litre	Quarterly	Grab sample
Aluminium	milligrams per litre	Yearly	Grab sample
Arsenic	milligrams per litre	Yearly	Grab sample
Barium	milligrams per litre	Yearly	Grab sample
Benzene	milligrams per litre	Yearly	Grab sample
Bicarbonate	milligrams per litre	Yearly	Grab sample
Cadmium	milligrams per litre	Yearly	Grab sample
Calcium	milligrams per litre	Quarterly	Grab sample
Carbonate	milligrams per litre	Yearly	Grab sample
Chloride	milligrams per litre	Quarterly	Grab sample
Chromium (hexavalent)	milligrams per litre	Yearly	Grab sample
Chromium (total)	milligrams per litre	Yearly	Grab sample
Copper	milligrams per litre	Yearly	Grab sample
Ethyl benzene	milligrams per litre	Yearly	Grab sample
Fluoride	milligrams per litre	Yearly	Grab sample
Lead	milligrams per litre	Yearly	Grab sample
Mercury	milligrams per litre	Yearly	Grab sample
Nitrate	milligrams per litre	Yearly	Grab sample
Nitrite	milligrams per litre	Yearly	Grab sample
Nitrogen (ammonia)	milligrams per litre	Quarterly	Grab sample
Organochlorine pesticides	milligrams per litre	Yearly	Grab sample
Organophosphate pesticides	milligrams per litre	Yearly	Grab sample
Pentachlorophenol	nanograms per litre	Yearly	Grab sample
pH	pH	Quarterly	Probe
Phosphate	milligrams per litre	Yearly	Grab sample
Polycyclic aromatic hydrocarbons	milligrams per litre	Yearly	Grab sample
Potassium	milligrams per litre	Quarterly	Grab sample
Redox potential	millivolts	Yearly	Probe
Sodium	milligrams per litre	Quarterly	Grab sample
Standing Water Level	metres	Quarterly	In situ
Sulfate	milligrams per litre	Quarterly	Grab sample
Total dissolved solids	milligrams per litre	Quarterly	Grab sample
Total organic carbon	milligrams per litre	Quarterly	Grab sample
Total petroleum hydrocarbons	milligrams per litre	Yearly	Grab sample
Total Phenolics	milligrams per litre	Yearly	Grab sample
Xylene	milligrams per litre	Yearly	Grab sample
Zinc	milligrams per litre	Yearly	Grab sample

POINT 27

Environment Protection Licence

Licence - 5877

Pollutant	Units of measure	Frequency	Sampling Method
Alkalinity (as calcium carbonate)	milligrams per litre	Yearly	Grab sample
Aluminium	milligrams per litre	Yearly	Grab sample
Arsenic	milligrams per litre	Yearly	Grab sample
Barium	milligrams per litre	Yearly	Grab sample
Benzene	milligrams per litre	Yearly	Grab sample
Bicarbonate	milligrams per litre	Yearly	Grab sample
Cadmium	milligrams per litre	Yearly	Grab sample
Calcium	milligrams per litre	Yearly	Grab sample
Carbonate	milligrams per litre	Yearly	Grab sample
Chromium (hexavalent)	milligrams per litre	Yearly	Grab sample
Chromium (total)	milligrams per litre	Yearly	Grab sample
Cobalt	milligrams per litre	Yearly	Grab sample
Conductivity	microsiemens per centimetre	Yearly	Probe
Copper	milligrams per litre	Yearly	Grab sample
Ethyl benzene	milligrams per litre	Yearly	Grab sample
Fluoride	milligrams per litre	Yearly	Grab sample
Lead	milligrams per litre	Yearly	Grab sample
Magnesium	milligrams per litre	Yearly	Grab sample
Manganese	milligrams per litre	Yearly	Grab sample
Mercury	milligrams per litre	Yearly	Grab sample
Nitrate	milligrams per litre	Yearly	Grab sample
Nitrite	milligrams per litre	Yearly	Grab sample
Nitrogen (ammonia)	milligrams per litre	Yearly	Grab sample
Organochlorine pesticides	milligrams per litre	Yearly	Grab sample
Organophosphate pesticides	milligrams per litre	Yearly	Grab sample
pH	milligrams per litre	Yearly	Probe
Phosphate	milligrams per litre	Yearly	Grab sample
Phosphorus (total)	milligrams per litre	Yearly	Grab sample
Polycyclic aromatic hydrocarbons	milligrams per litre	Yearly	Grab sample
Potassium	milligrams per litre	Yearly	Grab sample
Sodium	milligrams per litre	Yearly	Grab sample
Sulfate	milligrams per litre	Yearly	Grab sample
Toluene	milligrams per litre	Yearly	Grab sample
Total dissolved solids	milligrams per litre	Yearly	Grab sample
Total organic carbon	milligrams per litre	Yearly	Grab sample
Total petroleum hydrocarbons	milligrams per litre	Yearly	Grab sample
Total Phenolics	milligrams per litre	Yearly	Grab sample
Total suspended solids	milligrams per litre	Yearly	Grab sample

Environment Protection Licence



Licence - 5877

Xylene	milligrams per litre	Yearly	Grab sample
Zinc	milligrams per litre	Yearly	Grab sample

M3 Testing methods - concentration limits

- M3.1 Monitoring for the concentration of a pollutant emitted to the air required to be conducted by this licence must be done in accordance with:
- any methodology which is required by or under the Act to be used for the testing of the concentration of the pollutant; or
 - if no such requirement is imposed by or under the Act, any methodology which a condition of this licence requires to be used for that testing; or
 - if no such requirement is imposed by or under the Act or by a condition of this licence, any methodology approved in writing by the EPA for the purposes of that testing prior to the testing taking place.

Note: The *Protection of the Environment Operations (Clean Air) Regulation 2010* requires testing for certain purposes to be conducted in accordance with test methods contained in the publication "Approved Methods for the Sampling and Analysis of Air Pollutants in NSW".

- M3.2 Subject to any express provision to the contrary in this licence, monitoring for the concentration of a pollutant discharged to waters or applied to a utilisation area must be done in accordance with the Approved Methods Publication unless another method has been approved by the EPA in writing before any tests are conducted.

M4 Recording of pollution complaints

- M4.1 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.
- M4.2 The record must include details of the following:
- the date and time of the complaint;
 - the method by which the complaint was made;
 - any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect;
 - the nature of the complaint;
 - the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and
 - if no action was taken by the licensee, the reasons why no action was taken.
- M4.3 The record of a complaint must be kept for at least 4 years after the complaint was made.
- M4.4 The record must be produced to any authorised officer of the EPA who asks to see them.

Environment Protection Licence

Licence - 5877

M5 Telephone complaints line

- M5.1 The licensee must operate during its operating hours a 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.
- M5.2 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.
- M5.3 The preceding two conditions do not apply until 3 months after: the date of the issue of this licence.

M6 Requirement to monitor volume or mass

- M6.1 For each discharge point or utilisation area specified below, the licensee must monitor:
- the volume of liquids discharged to water or applied to the area;
 - the mass of solids applied to the area;
 - the mass of pollutants emitted to the air;
- at the frequency and using the method and units of measure, specified below.

POINT 25,27

Frequency	Unit of Measure	Sampling Method
Monthly	cubic metres	Flow meter and continuous logger

M7 Other monitoring and recording conditions

- M7.1 The licensee must monitor the remaining disposal capacity (in cubic metres) of the landfill.

6 Reporting Conditions

R1 Annual return documents

- R1.1 The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:
- a Statement of Compliance,
 - a Monitoring and Complaints Summary,
 - a Statement of Compliance - Licence Conditions,
 - a Statement of Compliance - Load based Fee,
 - a Statement of Compliance - Requirement to Prepare Pollution Incident Response Management Plan,
 - a Statement of Compliance - Requirement to Publish Pollution Monitoring Data; and
 - a Statement of Compliance - Environmental Management Systems and Practices.

At the end of each reporting period, the EPA will provide to the licensee a copy of the form that must be

Environment Protection Licence



Licence - 5877

completed and returned to the EPA.

R1.2 An Annual Return must be prepared in respect of each reporting period, 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.

R1.3 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.

R1.4 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.

R1.5 The Annual Return for the reporting period must be supplied to the EPA via eConnect *EPA* or 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').

R1.6 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.

R1.7 Within the Annual Return, the Statements 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.

R1.8 The Annual Return must be accompanied by / or include an Annual Report which must contain an assessment of environmental performance relevant to licence conditions including:

- a) tabulated results of all monitoring data required to be collected by this licence;
- b) a graphical presentation of data from at least the last three years (if available) in order to show variability and / or trends. Any statistically significant variations or anomalies should be highlighted and explained;
- c) an analysis and interpretation of all monitoring data;
- d) an analysis of and response to any complaints received;
- e) identification of any deficiencies in environmental performance identified by the monitoring data, trends or incidents and of remedial action taken or proposed to be taken to address these deficiencies; and
- f) recommendations on improving the environmental performance of the facility.

Environment Protection Licence



Licence - 5877

R2 Notification of environmental harm

Note: The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.

- R2.1 Notifications must be made by telephoning the Environment Line service on 131 555.
- R2.2 The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred.
- R2.3 If the landfill gas monitoring of Point 24 required by condition M2.2 indicates a methane gas concentration of 1.00% (v/v) or greater, the licensee must:
 - a. Notify the EPA within 24 hours; and
 - b. Increase the frequency of monitoring to daily until the EPA determines otherwise.
- R2.4 The EPA must be notified within 24 hours if the landfill gas monitoring of Point 37 required by condition M2.2 indicates a methane gas concentration of 500ppm (v/v) or greater.

R3 Written report

- R3.1 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.
- R3.2 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.
- R3.3 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;
 - 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; and
 - g) any other relevant matters.
- R3.4 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

Environment Protection Licence

Licence - 5877



EPA within the time specified in the request.

R4 Other reporting conditions

- R4.1 The licensee must record the following data in relation to fires occurring at the premises:
- a) Time and date when the fire started.
 - b) Whether the fire was authorised by the licensee, and, if not, the circumstances which ignited the fire.
 - c) The time and date that the fire burnt out or was extinguished.
 - d) The location of fire (eg. clean timber stockpile, putrescible garbage cell, etc).
 - e) Prevailing weather conditions at the time of the fire.
 - f) Observations made in regard to smoke direction and dispersion.
 - g) The amount of waste that was combusted by the fire.
 - h) Action taken to extinguish the fire;
 - i) Action taken to prevent a reoccurrence.

The data must be recorded on each day that the fire is burning.

- R4.2 The licensee or its employees or agents must notify the occurrence of all fires on the premises in accordance with conditions R2.1 and R2.2 as soon as practical after becoming aware of the fire.

7 General Conditions

G1 Copy of licence kept at the premises or plant

- G1.1 A copy of this licence must be kept at the premises to which the licence applies.
- G1.2 The licence must be produced to any authorised officer of the EPA who asks to see it.
- G1.3 The licence must be available for inspection by any employee or agent of the licensee working at the premises.

Environment Protection Licence

Licence - 5877

Dictionary

General Dictionary

3DGM [in relation to a concentration limit]	Means the three day geometric mean, which is calculated by multiplying the results of the analysis of three samples collected on consecutive days and then taking the cubed root of that amount. Where one or more of the samples is zero or below the detection limit for the analysis, then 1 or the detection limit respectively should be used in place of those samples
Act	Means the Protection of the Environment Operations Act 1997
activity	Means a scheduled or non-scheduled activity within the meaning of the Protection of the Environment Operations Act 1997
actual load	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
AM	Together with a number, means an ambient air monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
AMG	Australian Map Grid
anniversary date	The anniversary date is the anniversary each year of the date of issue of the licence. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
annual return	Is defined in R1.1
Approved Methods Publication	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
assessable pollutants	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
BOD	Means biochemical oxygen demand
CEM	Together with a number, means a continuous emission monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
COD	Means chemical oxygen demand
composite sample	Unless otherwise specifically approved in writing by the EPA, a sample consisting of 24 individual samples collected at hourly intervals and each having an equivalent volume.
cond.	Means conductivity
environment	Has the same meaning as in the Protection of the Environment Operations Act 1997
environment protection legislation	Has the same meaning as in the Protection of the Environment Administration Act 1991
EPA	Means Environment Protection Authority of New South Wales.
fee-based activity classification	Means the numbered short descriptions in Schedule 1 of the Protection of the Environment Operations (General) Regulation 2009.
general solid waste (non-putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997

Environment Protection Licence

Licence - 5877

flow weighted composite sample	Means a sample whose composites are sized in proportion to the flow at each composites time of collection.
general solid waste (putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
grab sample	Means a single sample taken at a point at a single time
hazardous waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
licensee	Means the licence holder described at the front of this licence
load calculation protocol	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
local authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
material harm	Has the same meaning as in section 147 Protection of the Environment Operations Act 1997
MBAS	Means methylene blue active substances
Minister	Means the Minister administering the Protection of the Environment Operations Act 1997
mobile plant	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
motor vehicle	Has the same meaning as in the Protection of the Environment Operations Act 1997
O&G	Means oil and grease
percentile [in relation to a concentration limit of a sample]	Means that percentage [eg.50%] of the number of samples taken that must meet the concentration limit specified in the licence for that pollutant over a specified period of time. In this licence, the specified period of time is the Reporting Period unless otherwise stated in this licence.
plant	Includes all plant within the meaning of the Protection of the Environment Operations Act 1997 as well as motor vehicles.
pollution of waters [or water pollution]	Has the same meaning as in the Protection of the Environment Operations Act 1997
premises	Means the premises described in condition A2.1
public authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
regional office	Means the relevant EPA office referred to in the Contacting the EPA document accompanying this licence
reporting period	For the purposes of this licence, the reporting period means the period of 12 months after the issue of the licence, and each subsequent period of 12 months. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
restricted solid waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
scheduled activity	Means an activity listed in Schedule 1 of the Protection of the Environment Operations Act 1997
special waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
TM	Together with a number, means a test method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .

Environment Protection Licence



Licence - 5877

TSP	Means total suspended particles
TSS	Means total suspended solids
Type 1 substance	Means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or more of those elements
Type 2 substance	Means the elements beryllium, chromium, cobalt, manganese, nickel, selenium, tin or vanadium or any compound containing one or more of those elements
utilisation area	Means any area shown as a utilisation area on a map submitted with the application for this licence
waste	Has the same meaning as in the Protection of the Environment Operations Act 1997
waste type	Means liquid, restricted solid waste, general solid waste (putrescible), general solid waste (non - putrescible), special waste or hazardous waste

Ms Debbie Maddison

Environment Protection Authority

(By Delegation)

Date of this edition: 01-December-2000

Environment Protection Licence



Licence - 5877

End Notes

- 1 Licence varied by notice 1013108, issued on 04-Jan-2002, which came into effect on 29-Jan-2002.
- 2 Licence varied by notice 1031238, issued on 05-Dec-2003, which came into effect on 30-Dec-2003.
- 3 Licence varied by change to DEC Regopm allocation, issued on 03-Mar-2006, which came into effect on 03-Mar-2006.
- 4 Licence varied by notice 1069250, issued on 02-May-2007, which came into effect on 02-May-2007.
- 5 Licence varied by notice 1081780, issued on 19-Mar-2008, which came into effect on 19-Mar-2008.
- 6 Condition A1.3 Not applicable varied by notice issued on <issue date> which came into effect on <effective date>
- 7 Licence varied by notice 1090155, issued on 15-Dec-2008, which came into effect on 15-Dec-2008.
- 8 Licence varied by notice 1099238, issued on 03-Apr-2009, which came into effect on 03-Apr-2009.
- 9 Licence varied by notice 1111694, issued on 17-May-2010, which came into effect on 17-May-2010.
- 10 Licence varied by notice 1115110, issued on 06-Aug-2010, which came into effect on 06-Aug-2010.
- 11 Licence varied by notice 1124489, issued on 03-Feb-2011, which came into effect on 03-Feb-2011.
- 12 Licence varied by notice 1129470, issued on 05-Jul-2011, which came into effect on 05-Jul-2011.
- 13 Licence varied by notice 1500746 issued on 23-Sep-2011
- 14 Licence varied by notice 1504597 issued on 01-May-2012
- 15 Licence varied by notice 1506324 issued on 11-Jan-2013
- 16 Licence varied by notice 1513038 issued on 22-Mar-2013
- 17 Licence format updated on 11-Oct-2013
- 18 Licence varied by notice 1520254 issued on 28-Aug-2015
- 19 Licence varied by notice 1533849 issued on 29-Sep-2015
- 20 Licence varied by notice 1535751 issued on 23-Nov-2015

Environment Protection Licence

Licence - 5877



21	Licence varied by notice	1537080 issued on 11-Jan-2016
22	Licence varied by notice	1544674 issued on 28-Sep-2016
23	Licence varied by notice	1558280 issued on 07-Dec-2017
24	Licence varied by notice	1572673 issued on 23-Nov-2018
25	Licence varied by notice	1587846 issued on 04-Dec-2019

Environment Protection Licence

Licence - 1265

Licence Details	
Number:	1265
Anniversary Date:	01-April

Licensee
SOUTH COAST EQUIPMENT PTY LTD
PO BOX 220
WOLLONGONG EAST NSW 2520

Premises
SCE PROCESSING & SCE RECYCLING
LOT 1 SHELLHARBOUR ROAD
PORT KEMBLA NSW 2505

Scheduled Activity
Resource recovery

Fee Based Activity	Scale
Recovery of general waste	Any general waste recovered

Region
Waste & Resource Recovery
59-61 Goulburn Street
SYDNEY NSW 2000
Phone: (02) 9995 5000
Fax: (02) 9995 5999
PO Box A290 SYDNEY SOUTH
NSW 1232

Environment Protection Licence



Licence - 1265

INFORMATION ABOUT THIS LICENCE	4
Dictionary	4
Responsibilities of licensee	4
Variation of licence conditions	4
Duration of licence	4
Licence review	4
Fees and annual return to be sent to the EPA	4
Transfer of licence	5
Public register and access to monitoring data	5
1 ADMINISTRATIVE CONDITIONS	6
A1 What the licence authorises and regulates	6
A2 Premises or plant to which this licence applies	6
A3 Information supplied to the EPA	6
2 LIMIT CONDITIONS	7
L1 Pollution of waters	7
L2 Waste	7
L3 Potentially offensive odour	9
3 OPERATING CONDITIONS	10
O1 Activities must be carried out in a competent manner	10
O2 Maintenance of plant and equipment	10
O3 Dust	10
4 MONITORING AND RECORDING CONDITIONS	10
M1 Monitoring records	10
M2 Recording of pollution complaints	11
M3 Telephone complaints line	11
M4 Other monitoring and recording conditions	11
5 REPORTING CONDITIONS	12
R1 Annual return documents	12
R2 Notification of environmental harm	13
R3 Written report	13
6 GENERAL CONDITIONS	14
G1 Copy of licence kept at the premises or plant	14
7 SPECIAL CONDITIONS	14

Environment Protection Licence



Licence - 1265

E1	Financial Assurance	-----	14
E2	Environmental Obligations of Licensee (Works & Programs)	-----	15
DICTIONARY		-----	16
	General Dictionary	-----	16

Environment Protection Licence

Licence - 1265



Information about this licence

Dictionary

A definition of terms used in the licence can be found in the dictionary at the end of this licence.

Responsibilities of licensee

Separate to the requirements of this licence, general obligations of licensees are set out in the Protection of the Environment Operations Act 1997 (“the Act”) and the Regulations made under the Act. These include obligations to:

- ensure persons associated with you comply with this licence, as set out in section 64 of the Act;
- control the pollution of waters and the pollution of air (see for example sections 120 - 132 of the Act);
- report incidents causing or threatening material environmental harm to the environment, as set out in Part 5.7 of the Act.

Variation of licence conditions

The licence holder can apply to vary the conditions of this licence. An application form for this purpose is available from the EPA.

The EPA may also vary the conditions of the licence at any time by written notice without an application being made.

Where a licence has been granted in relation to development which was assessed under the Environmental Planning and Assessment Act 1979 in accordance with the procedures applying to integrated development, the EPA may not impose conditions which are inconsistent with the development consent conditions until the licence is first reviewed under Part 3.6 of the Act.

Duration of licence

This licence will remain in force until the licence is surrendered by the licence holder or until it is suspended or revoked by the EPA or the Minister. A licence may only be surrendered with the written approval of the EPA.

Licence review

The Act requires that the EPA review your licence at least every 5 years after the issue of the licence, as set out in Part 3.6 and Schedule 5 of the Act. You will receive advance notice of the licence review.

Fees and annual return to be sent to the EPA

For each licence fee period you must pay:

- an administrative fee; and
- a load-based fee (if applicable).

Environment Protection Licence



Licence - 1265

The EPA publication “A Guide to Licensing” contains information about how to calculate your licence fees. The licence requires that an Annual Return, comprising a Statement of Compliance and a summary of any monitoring required by the licence (including the recording of complaints), be submitted to the EPA. The Annual Return must be submitted within 60 days after the end of each reporting period. See condition R1 regarding the Annual Return reporting requirements.

Usually the licence fee period is the same as the reporting period.

Transfer of licence

The licence holder can apply to transfer the licence to another person. An application form for this purpose is available from the EPA.

Public register and access to monitoring data

Part 9.5 of the Act requires the EPA to keep a public register of details and decisions of the EPA in relation to, for example:

- licence applications;
- licence conditions and variations;
- statements of compliance;
- load based licensing information; and
- load reduction agreements.

Under s320 of the Act application can be made to the EPA for access to monitoring data which has been submitted to the EPA by licensees.

This licence is issued to:

SOUTH COAST EQUIPMENT PTY LTD
PO BOX 220
WOLLONGONG EAST NSW 2520

subject to the conditions which follow.

Environment Protection Licence



Licence - 1265

1 Administrative Conditions

A1 What the licence authorises and regulates

A1.1 This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, fee-based activity classification and the scale of the operation.

Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition.

Scheduled Activity	Fee Based Activity	Scale
Resource recovery	Recovery of general waste	Any general waste recovered

A2 Premises or plant to which this licence applies

A2.1 The licence applies to the following premises:

Premises Details
SCE PROCESSING & SCE RECYCLING
LOT 1 SHELLHARBOUR ROAD
PORT KEMBLA
NSW 2505
LOT 1 DP 25910, LOT 2 DP 561366

A3 Information supplied to the EPA

A3.1 Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence.

In this condition the reference to "the licence application" includes a reference to:

- a) the applications for any licences (including former pollution control approvals) which this licence replaces under the Protection of the Environment Operations (Savings and Transitional) Regulation 1998; and
- b) the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence.

A3.2 Any other document and/or management plan is not to be taken as part of the documentation in condition A3.1, other than those documents and/or management plans specifically referenced in this licence.

Environment Protection Licence



Licence - 1265

2 Limit Conditions

L1 Pollution of waters

L1.1 Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the Protection of the Environment Operations Act 1997.

L2 Waste

L2.1 The licensee must not cause, permit or allow any waste to be received at the premises, except the wastes expressly referred to in the column titled "Waste" and meeting the definition, if any, in the column titled "Description" in the table below.

Any waste received at the premises must only be used for the activities referred to in relation to that waste in the column titled "Activity" in the table below.

Any waste received at the premises is subject to those limits or conditions, if any, referred to in relation to that waste contained in the column titled "Other Limits" in the table below.

This condition does not limit any other conditions in this licence.

Code	Waste	Description	Activity	Other Limits
NA	Ash	Being Coal Ash as defined in the Coal Ash Resource Recovery Order 2014 or an in-force Specific Resource Recovery Order/Exemption.	Resource recovery	NA
NA	Coal Washery Reject	As defined in the Coal Washery Rejects Resource Recovery Order 2014.	Resource recovery	NA
NA	Cement Fibre Board	As defined in the Cement Fibre Board Waste Resource Recovery Order 2014 or an in-force Specific Resource Recovery Order/Exemption.	Resource recovery	NA
NA	Excavated natural material	As defined in the Excavated Natural Material Resource Recovery Order 2014.	Resource recovery	NA
NA	Electric Arc Ladle Slag	As defined in the Processed Electric Arc Furnace Ladle Slag Resource Recovery Order 2014.	Resource recovery	NA
NA	Sand	Free drainage fine aggregate sourced from construction	Resource recovery	This waste type can only be received at the

Environment Protection Licence

Licence - 1265



		infrastructure.		premises if the waste does not contain any contaminant levels exceeding the limits for General Solid Waste stated in the DECCW's Waste Classification Guidelines Part1: Classifying Waste
NA	Rail Ballast	Free draining coarse natural aggregate sourced from rail infrastructure.	Resource recovery	This waste type can only be received at the premises if the waste does not contain any contaminant levels exceeding the limits for General Solid Waste stated in the DECCW's Waste Classification Guidelines Part1: Classifying Waste
NA	Virgin excavated natural material	As defined in Schedule 1 of the POEO Act, in force from time to time.	Resource recovery	NA
NA	Building and demolition waste	As defined in Schedule 1 of the POEO Act, in force from time to time.	Resource recovery	NA
NA	Asphalt waste (including asphalt resulting from road construction and waterproofing works)	As defined in Schedule 1 of the POEO Act, in force from time to time.	Resource recovery	NA
NA	Glass	As defined in Schedule 1 of the POEO Act, in force from time to time.	Resource recovery	NA
NA	Electric Arc Furnace Slag	As defined in Schedule 1 of the POEO Act, in force from time to time.	Resource recovery	NA
NA	Granulated Blast Furnace Slag	As defined in Schedule 1 of the POEO Act, in force from time to time.	Resource recovery	NA
NA	Basic Oxygen Steel Slag	As defined in Schedule 1 of the POEO Act, in force from time to time.	Resource recovery	NA

Environment Protection Licence



Licence - 1265

NA	Wood waste	As defined in Schedule 1 of the POEO Act, in force from time to time.	Resource recovery	NA
NA	Cured concrete waste from a batch plant	As defined in Schedule 1 of the POEO Act, in force from time to time.	Resource recovery	NA
NA	Soils	Soil that meet the CT1 thresholds for General Solid Waste in Table 1 of the Waste Classification Guidelines as in force from time to time with the exception of the maximum threshold values for contaminants specified in the 'Other Limits' column	Resource recovery	Arsenic: 40mg/kg Cadmium: 2mg/kg Copper: 200mg/kg Mercury: 1.5mg/kg Zinc: 600mg/kg Petroleum Hydrocarbons C6-C9: 150mg/kg Petroleum Hydrocarbons C10-C36: 1600mg/kg Polycyclic aromatic hydrocarbons: 80mg/kg Polychlorinated biphenyls (individual): 1mg/kg No Acid Sulfate Soil or Potential Acid Sulfate Soil is to be received at the Premises. Soil thresholds will be subject to review at or before 31 October 2011

L2.2 The authorised amount of waste permitted on the premises cannot exceed 150,000 tonnes at any time.

L3 Potentially offensive odour

L3.1 The licensee must not cause or permit the emission of offensive odour beyond the boundary of the premises.

Environment Protection Licence



Licence - 1265

3 Operating Conditions

O1 Activities must be carried out in a competent manner

O1.1 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.

O2 Maintenance of plant and equipment

O2.1 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.

O3 Dust

O3.1 The premises must be maintained in a condition which minimises or prevents the emission of dust from the premises.

O3.2 All operations and activities occurring at the premises must be carried out in a manner that will minimise the emission of dust from the premises.

O3.3 Trucks entering and leaving the premises that are carrying loads must be covered at all times, except during loading and unloading.

4 Monitoring and Recording Conditions

M1 Monitoring records

M1.1 The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.

M1.2 All records required to be kept by this licence must be:

- a) in a legible form, or in a form that can readily be reduced to a legible form;
- b) kept for at least 4 years after the monitoring or event to which they relate took place; and
- c) produced in a legible form to any authorised officer of the EPA who asks to see them.

M1.3 The following records must be kept in respect of any samples required to be collected for the purposes of this licence:

- a) the date(s) on which the sample was taken;
- b) the time(s) at which the sample was collected;
- c) the point at which the sample was taken; and
- d) the name of the person who collected the sample.

Environment Protection Licence



Licence - 1265

M2 Recording of pollution complaints

- M2.1 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.
- M2.2 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.
- M2.3 The record of a complaint must be kept for at least 4 years after the complaint was made.
- M2.4 The record must be produced to any authorised officer of the EPA who asks to see them.

M3 Telephone complaints line

- M3.1 The licensee must operate during its operating hours a 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.
- M3.2 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.
- M3.3 The preceding two conditions do not apply until 3 months after: the date of the issue of this licence.

M4 Other monitoring and recording conditions

- M4.1 The licensee must keep a record of each load of Soil, as referred to under Condition L2.1, that is received at the premises. The record must include, but not necessarily be limited to, the following:
- a) a copy of the waste classification report in accordance with the Waste Classification Guidelines, including the classification and the limits specified in the L2.1 table;
 - b) the quantity (in tonnes) of the Soil received;
 - c) the date and time that the Soil were received;
 - d) the registration number of the vehicle transporting the Soil to the premises;
 - e) the name and contact details of the company or individual delivering the Soil to the premises;
 - f) the source(s) and address from where the Soil were received;

The record must be retained at the premises for at least 4 years after the receipt of the load of the soil.

Environment Protection Licence



Licence - 1265

The record must be produced to any authorised officer of the EPA upon request.

5 Reporting Conditions

R1 Annual return documents

- R1.1 The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:
1. a Statement of Compliance,
 2. a Monitoring and Complaints Summary,
 3. a Statement of Compliance - Licence Conditions,
 4. a Statement of Compliance - Load based Fee,
 5. a Statement of Compliance - Requirement to Prepare Pollution Incident Response Management Plan,
 6. a Statement of Compliance - Requirement to Publish Pollution Monitoring Data; and
 7. a Statement of Compliance - Environmental Management Systems and Practices.

At 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.

- R1.2 An Annual Return must be prepared in respect of each reporting period, 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.

- R1.3 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.

- R1.4 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.

- R1.5 The Annual Return for the reporting period must be supplied to the EPA via eConnect *EPA* or 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').

- R1.6 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.

- R1.7 Within the Annual Return, the Statements of Compliance must be certified and the Monitoring and Complaints Summary must be signed by:

Environment Protection Licence



Licence - 1265

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

R2 Notification of environmental harm

Note: The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.

- R2.1 Notifications must be made by telephoning the Environment Line service on 131 555.
- R2.2 The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred.

R3 Written report

- R3.1 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.
- R3.2 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.
- R3.3 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;
 - 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; and
 - g) any other relevant matters.
- R3.4 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.

Environment Protection Licence



Licence - 1265

6 General Conditions

G1 Copy of licence kept at the premises or plant

- G1.1 A copy of this licence must be kept at the premises to which the licence applies.
- G1.2 The licence must be produced to any authorised officer of the EPA who asks to see it.
- G1.3 The licence must be available for inspection by any employee or agent of the licensee working at the premises.

7 Special Conditions

E1 Financial Assurance

- E1.1 (a) A financial assurance in the form of an unconditional and irrevocable and on demand guarantee from a bank, building society or credit union operating in Australia as 'Authorised Deposit-taking Institutions' under the *Banking Act 1959* of the Commonwealth of Australia and supervised by the Australian Prudential Regulatory Authority (APRA) must be provided to the EPA by 31 December 2017. The financial assurance must be in favour of the EPA in the amount of one hundred thousand dollars (\$100,000). The financial assurance is required to secure or guarantee funding for works or programs required by or under this licence.
(b) An additional financial assurance in the form of an unconditional and irrevocable and on demand guarantee from a bank, building society or credit union operating in Australia as 'Authorised Deposit-taking Institutions' under the *Banking Act 1959* of the Commonwealth of Australia and supervised by the Australian Prudential Regulatory Authority (APRA) must be provided to the EPA by 31 December 2018. The financial assurance must be in favour of the EPA in the amount of eighty thousand dollars (\$80,000). The financial assurance is required to secure or guarantee funding for works or programs required by or under this licence.
- E1.2 The licensee must provide to the EPA, along with the original counterpart guarantee, confirmation in writing that the financial institution providing the guarantee is subject to supervision by the Australian Prudential Regulatory Authority (APRA).
- E1.3 The financial assurance must contain a term that provides that any money claimed can be paid to the EPA or, at the written direction of the EPA, to any other person.
- E1.4 The financial assurance must be maintained during the operation of the facility and thereafter until such time as the EPA is satisfied the premises is environmentally secure.
- E1.5 The financial assurance must be replenished by the full amount claimed or realised if the EPA has claimed on or realised the financial assurance or any part of it to undertake a work or program required to be carried out by the licence which has not been undertaken by the licence holder.
- E1.6 The EPA may require an increase in the amount of the financial assurance at any time as a result of reassessment of the total likely costs and expenses of rehabilitation of the premises.
- E1.7 The licensee must provide to the EPA the original counterpart guarantee within five working days of the

Environment Protection Licence



Licence - 1265

issue of:

- a) the financial assurance required by condition E1.1 and
- b) the adjusted financial assurance as required by condition E1.5 and E1.6

E1.8 The EPA may claim on a financial assurance under s303 of the POEO Act if a licensee fails to carry out any work or program required to comply with the conditions of this licence.

E2 Environmental Obligations of Licensee (Works & Programs)

E2.1 While the licensee's premises are being used for the purpose to which the licence relates, the licensee must:

- a) Clean up any spill, leak or other discharge of any waste(s) or other material(s) as soon as practicable after it becomes known to the licensee or to one of the licensee's employees or agents.
- b) In the event(s) that any liquid and non-liquid waste(s) is unlawfully deposited on the premises, such waste(s) must be removed and lawfully disposed of as soon as practicable or in accordance with any direction given by the EPA.
- c) Provide all monitoring data as required by the conditions of this licence or as directed by the EPA.

E2.2 In the event of an earthquake, storm, fire, flood or any other event where it is reasonable to suspect that a pollution incident has occurred, is occurring or is likely to occur, the licensee (whether or not the premises continue to be used for the purposes to which the licence relates) must:

- a) make all efforts to contain all firewater on the licensee's premises,
- b) make all efforts to control air pollution from the licensee's premises,
- c) make all efforts to contain any discharge, spill or run-off from the licensee's premises,
- d) make all efforts to prevent flood water entering the licensee's premises,
- e) remediate and rehabilitate any exposed areas of soil and/or waste,
- f) lawfully dispose of all liquid and solid waste(s) stored on the premises that is not already securely disposed of,
- g) at the request of the EPA monitor groundwater beneath the licensee's premises and its potential to migrate from the licensee's premises,
- h) at the request of the EPA monitor surface water leaving the licensee's premises; and
- i) ensure the licensee's premises is secure.

E2.3 After the licensee's premises cease to be used for the purpose to which the licence relates or in the event that the licensee ceases to carry out the activity that is the subject of this licence, that licensee must:

- a) Remove and lawfully dispose of all liquid and non-liquid waste stored on the licensee's premises that is not already securely disposed of;
- b) rehabilitate the site, including conducting an assessment of and if required remediation of any site contamination.

Environment Protection Licence

Licence - 1265

Dictionary

General Dictionary

3DGM [in relation to a concentration limit]	Means the three day geometric mean, which is calculated by multiplying the results of the analysis of three samples collected on consecutive days and then taking the cubed root of that amount. Where one or more of the samples is zero or below the detection limit for the analysis, then 1 or the detection limit respectively should be used in place of those samples
Act	Means the Protection of the Environment Operations Act 1997
activity	Means a scheduled or non-scheduled activity within the meaning of the Protection of the Environment Operations Act 1997
actual load	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
AM	Together with a number, means an ambient air monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
AMG	Australian Map Grid
anniversary date	The anniversary date is the anniversary each year of the date of issue of the licence. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
annual return	Is defined in R1.1
Approved Methods Publication	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
assessable pollutants	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
BOD	Means biochemical oxygen demand
CEM	Together with a number, means a continuous emission monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
COD	Means chemical oxygen demand
composite sample	Unless otherwise specifically approved in writing by the EPA, a sample consisting of 24 individual samples collected at hourly intervals and each having an equivalent volume.
cond.	Means conductivity
environment	Has the same meaning as in the Protection of the Environment Operations Act 1997
environment protection legislation	Has the same meaning as in the Protection of the Environment Administration Act 1991
EPA	Means Environment Protection Authority of New South Wales.
fee-based activity classification	Means the numbered short descriptions in Schedule 1 of the Protection of the Environment Operations (General) Regulation 2009.
general solid waste (non-putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997

Environment Protection Licence



Licence - 1265

flow weighted composite sample	Means a sample whose composites are sized in proportion to the flow at each composites time of collection.
general solid waste (putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
grab sample	Means a single sample taken at a point at a single time
hazardous waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
licensee	Means the licence holder described at the front of this licence
load calculation protocol	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
local authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
material harm	Has the same meaning as in section 147 Protection of the Environment Operations Act 1997
MBAS	Means methylene blue active substances
Minister	Means the Minister administering the Protection of the Environment Operations Act 1997
mobile plant	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
motor vehicle	Has the same meaning as in the Protection of the Environment Operations Act 1997
O&G	Means oil and grease
percentile [in relation to a concentration limit of a sample]	Means that percentage [eg.50%] of the number of samples taken that must meet the concentration limit specified in the licence for that pollutant over a specified period of time. In this licence, the specified period of time is the Reporting Period unless otherwise stated in this licence.
plant	Includes all plant within the meaning of the Protection of the Environment Operations Act 1997 as well as motor vehicles.
pollution of waters [or water pollution]	Has the same meaning as in the Protection of the Environment Operations Act 1997
premises	Means the premises described in condition A2.1
public authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
regional office	Means the relevant EPA office referred to in the Contacting the EPA document accompanying this licence
reporting period	For the purposes of this licence, the reporting period means the period of 12 months after the issue of the licence, and each subsequent period of 12 months. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
restricted solid waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
scheduled activity	Means an activity listed in Schedule 1 of the Protection of the Environment Operations Act 1997
special waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
TM	Together with a number, means a test method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .

Environment Protection Licence



Licence - 1265

TSP	Means total suspended particles
TSS	Means total suspended solids
Type 1 substance	Means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or more of those elements
Type 2 substance	Means the elements beryllium, chromium, cobalt, manganese, nickel, selenium, tin or vanadium or any compound containing one or more of those elements
utilisation area	Means any area shown as a utilisation area on a map submitted with the application for this licence
waste	Has the same meaning as in the Protection of the Environment Operations Act 1997
waste type	Means liquid, restricted solid waste, general solid waste (putrescible), general solid waste (non - putrescible), special waste or hazardous waste

Ms Nadia Kanhoush

Environment Protection Authority

(By Delegation)

Date of this edition: 11-September-2000

Environment Protection Licence

Licence - 1265



End Notes

- 1 Licence varied by format and/or typographical corrections, issued on 18-Jun-2001, which came into effect on 18-Jun-2001.
- 2 Licence varied by correction to EPA data record, issued on 03-Aug-2004, which came into effect on 03-Aug-2004.
- 3 Licence varied by change to DEC Region allocation, issued on 16-Mar-2006, which came into effect on 16-Mar-2006.
- 4 Condition A1.3 Not applicable varied by notice issued on <issue date> which came into effect on <effective date>
- 5 Licence varied by notice 1108550, issued on 13-Nov-2009, which came into effect on 13-Nov-2009.
- 6 Licence varied by notice 1126201, issued on 18-Mar-2011, which came into effect on 18-Mar-2011.
- 7 Licence varied by notice 1500382 issued on 04-Oct-2011
- 8 Licence varied by notice 1532880 issued on 14-Jul-2017
- 9 Licence varied by notice 1555316 issued on 27-Aug-2017

Environment Protection Licence

Licence - 5984

Licence Details	
Number:	5984
Anniversary Date:	09-October

Licensee
COUNCIL OF THE CITY OF SHELLHARBOUR
PO BOX 155
SHELLHARBOUR NSW 2529

Premises
DUNMORE RECYCLING & WASTE DISPOSAL DEPOT
BUCKLEYS ROAD
DUNMORE NSW 2529

Scheduled Activity
Composting
Extractive activities
Waste disposal (application to land)
Waste processing (non-thermal treatment)
Waste storage

Fee Based Activity	Scale
Composting	> 5000-50000 T annual capacity to receive organics
Non-thermal treatment of general waste	Any annual processing capacity
Waste disposal by application to land	Any capacity
Waste storage - hazardous, restricted solid, liquid, clinical and related waste and asbestos waste	Any listed waste type stored
Waste storage - other types of waste	Any other types of waste stored
Water-based extractive activity	> 50000-100000 m3 annual extractive capacity

Environment Protection Licence

Licence - 5984



Region
Waste & Resource Recovery
59-61 Goulburn Street SYDNEY NSW 2000
Phone: (02) 9995 5000
Fax: (02) 9995 5999
PO Box A290 SYDNEY SOUTH NSW 1232

Environment Protection Licence



Licence - 5984

INFORMATION ABOUT THIS LICENCE	5
Dictionary	5
Responsibilities of licensee	5
Variation of licence conditions	5
Duration of licence	5
Licence review	5
Fees and annual return to be sent to the EPA	5
Transfer of licence	6
Public register and access to monitoring data	6
1 ADMINISTRATIVE CONDITIONS	7
A1 What the licence authorises and regulates	7
A2 Premises or plant to which this licence applies	7
A3 Information supplied to the EPA	7
2 DISCHARGES TO AIR AND WATER AND APPLICATIONS TO LAND	8
P1 Location of monitoring/discharge points and areas	8
3 LIMIT CONDITIONS	9
L1 Pollution of waters	9
L2 Concentration limits	9
L3 Waste	10
L4 Potentially offensive odour	11
L5 Other limit conditions	11
4 OPERATING CONDITIONS	11
O1 Activities must be carried out in a competent manner	11
O2 Maintenance of plant and equipment	12
O3 Dust	12
O4 Effluent application to land	12
O5 Emergency response	12
O6 Processes and management	13
O7 Waste management	13
O8 Other operating conditions	15
5 MONITORING AND RECORDING CONDITIONS	15
M1 Monitoring records	15
M2 Requirement to monitor concentration of pollutants discharged	15
M3 Testing methods - concentration limits	17

Environment Protection Licence



Licence - 5984

M4	Environmental monitoring	18
M5	Recording of pollution complaints	18
M6	Telephone complaints line	18
M7	Other monitoring and recording conditions	18
6	REPORTING CONDITIONS	19
R1	Annual return documents	19
R2	Notification of environmental harm	20
R3	Written report	20
R4	Other reporting conditions	21
7	GENERAL CONDITIONS	21
G1	Copy of licence kept at the premises or plant	21
8	SPECIAL CONDITIONS	22
E1	Disposal of Potential Acid Sulfate Soils (PASS) Under Water	22
E2	Environmental Monitoring Point BH18 and Review	23
DICTIONARY	.....	24
	General Dictionary	24

Environment Protection Licence

Licence - 5984



Information about this licence

Dictionary

A definition of terms used in the licence can be found in the dictionary at the end of this licence.

Responsibilities of licensee

Separate to the requirements of this licence, general obligations of licensees are set out in the Protection of the Environment Operations Act 1997 ("the Act") and the Regulations made under the Act. These include obligations to:

- ensure persons associated with you comply with this licence, as set out in section 64 of the Act;
- control the pollution of waters and the pollution of air (see for example sections 120 - 132 of the Act);
- report incidents causing or threatening material environmental harm to the environment, as set out in Part 5.7 of the Act.

Variation of licence conditions

The licence holder can apply to vary the conditions of this licence. An application form for this purpose is available from the EPA.

The EPA may also vary the conditions of the licence at any time by written notice without an application being made.

Where a licence has been granted in relation to development which was assessed under the Environmental Planning and Assessment Act 1979 in accordance with the procedures applying to integrated development, the EPA may not impose conditions which are inconsistent with the development consent conditions until the licence is first reviewed under Part 3.6 of the Act.

Duration of licence

This licence will remain in force until the licence is surrendered by the licence holder or until it is suspended or revoked by the EPA or the Minister. A licence may only be surrendered with the written approval of the EPA.

Licence review

The Act requires that the EPA review your licence at least every 5 years after the issue of the licence, as set out in Part 3.6 and Schedule 5 of the Act. You will receive advance notice of the licence review.

Fees and annual return to be sent to the EPA

For each licence fee period you must pay:

- an administrative fee; and
- a load-based fee (if applicable).

Environment Protection Licence

Licence - 5984



The EPA publication “A Guide to Licensing” contains information about how to calculate your licence fees. The licence requires that an Annual Return, comprising a Statement of Compliance and a summary of any monitoring required by the licence (including the recording of complaints), be submitted to the EPA. The Annual Return must be submitted within 60 days after the end of each reporting period. See condition R1 regarding the Annual Return reporting requirements.

Usually the licence fee period is the same as the reporting period.

Transfer of licence

The licence holder can apply to transfer the licence to another person. An application form for this purpose is available from the EPA.

Public register and access to monitoring data

Part 9.5 of the Act requires the EPA to keep a public register of details and decisions of the EPA in relation to, for example:

- licence applications;
- licence conditions and variations;
- statements of compliance;
- load based licensing information; and
- load reduction agreements.

Under s320 of the Act application can be made to the EPA for access to monitoring data which has been submitted to the EPA by licensees.

This licence is issued to:

COUNCIL OF THE CITY OF SHELLHARBOUR
PO BOX 155
SHELLHARBOUR NSW 2529

subject to the conditions which follow.

Environment Protection Licence

Licence - 5984



1 Administrative Conditions

A1 What the licence authorises and regulates

A1.1 This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, fee-based activity classification and the scale of the operation.

Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition.

Scheduled Activity	Fee Based Activity	Scale
Composting	Composting	> 5000 - 50000 T annual capacity to receive organics
Waste processing (non-thermal treatment)	Non-thermal treatment of general waste	Any annual processing capacity
Waste disposal (application to land)	Waste disposal by application to land	Any capacity
Waste storage	Waste storage - hazardous, restricted solid, liquid, clinical and related waste and asbestos waste	Any listed waste type stored
Waste storage	Waste storage - other types of waste	Any other types of waste stored
Extractive activities	Water-based extractive activity	> 50000 - 100000 m3 annual extractive capacity

A2 Premises or plant to which this licence applies

A2.1 The licence applies to the following premises:

Premises Details
DUNMORE RECYCLING & WASTE DISPOSAL DEPOT
BUCKLEYS ROAD
DUNMORE
NSW 2529
PART LOT 1 DP 110135, PART LOT 1 DP 419907, PART LOT 21 DP 653009
AS INDICATED IN AREA OUTLINED IN RED ON THE DRAWING TITLED "SHELLHARBOUR CITY COUNCIL PROPOSED LICENSE 12903 BOUNDARY ADJUSTMENTS" (EPA REFERENCE DOC16/528786).

A3 Information supplied to the EPA

A3.1 Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence.

Environment Protection Licence

Licence - 5984



In this condition the reference to "the licence application" includes a reference to:

- a) the applications for any licences (including former pollution control approvals) which this licence replaces under the Protection of the Environment Operations (Savings and Transitional) Regulation 1998; and
- b) the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence.

- A3.2 The Landfill Environmental Management Plan (LEMP) entitled, "Site Management Plan, Dunmore Recycling and Waste Disposal Depot", dated December 1997, submitted to the EPA on 24 December 1997 is not to be taken as part of the documentation in A4.1, other than those parts specifically referenced in this licence.

2 Discharges to Air and Water and Applications to Land

P1 Location of monitoring/discharge points and areas

- P1.1 The following points referred to in the table below are identified in this licence for the purposes of monitoring and/or the setting of limits for the emission of pollutants to the air from the point.

<i>Air</i>			
EPA identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
12	Landfill Gas Monitoring		Above areas where intermediate or final cover has been placed
13	Landfill Gas Monitoring		Inside all buildings within 250 metres of deposited waste
14	Discharge to air Air emissions monitoring	Discharge to air Air emissions monitoring	Landfill Gas Flare as shown on Drawing No. M7494-02-E1, dated 15 October 2015 (EPA Reference DOC15/415378).

- P1.2 The following utilisation areas referred to in the table below are identified in this licence for the purposes of the monitoring and/or the setting of limits for any application of solids or liquids to the utilisation area.

- P1.3 The following points referred to in the table are identified in this licence for the purposes of the monitoring and/or the setting of limits for discharges of pollutants to water from the point.

<i>Water and land</i>			
EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
1		Overflow drain	Catch drain collecting overflows from Sediment Dams 1 & 2. See drawing 96650132-01 in LEMP
2	Leachate monitoring		Leachate sump - L1

Environment Protection Licence

Licence - 5984



3	Groundwater monitoring	Southwest of solid waste disposal area and to the north of sand mining area - BH1b
5	Groundwater monitoring	Outside of the premises, about 125 metre south of the site - BH3
6	Groundwater monitoring	Outside of the premises, about 125 metre south of the site about 150 metres west of BH3 - BH4
7	Groundwater monitoring	On the eastern corner of the site - BH5
10	Groundwater monitoring	South east of landfill next to perimeter road. - BH 13.
11	Groundwater monitoring	South of landfill next to perimeter road. - BH14
15	Leachate volume and quality monitoring	Leachate storage tanks

3 Limit Conditions

L1 Pollution of waters

L1.1 Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the Protection of the Environment Operations Act 1997.

L2 Concentration limits

L2.1 For each monitoring/discharge point or utilisation area specified in the table\ below (by a point number), the concentration of a pollutant discharged at that point, or applied to that area, must not exceed the concentration limits specified for that pollutant in the table.

L2.2 Where a pH quality limit is specified in the table, the specified percentage of samples must be within the specified ranges.

L2.3 To avoid any doubt, this condition does not authorise the pollution of waters by any pollutant other than those specified in the table\.

L2.4 Water and/or Land Concentration Limits

POINT 1

Pollutant	Units of Measure	50 percentile concentration limit	90 percentile concentration limit	3DGM concentration limit	100 percentile concentration limit
pH	pH				6.5 - 8.5

Environment Protection Licence



Licence - 5984

Total suspended solids	milligrams per litre	50
------------------------	----------------------	----

- L2.5 There must be no discharge of sediment contaminated water to waters under dry weather conditions. Sediment dams 1 and 2 must be maintained and operated with a capacity not less than 1000 cubic metres and 700 cubic meters respectively.

“dry weather” means less than ten millimetres of rain falling within a 24 hour period.

- L2.6 There must be no discharge of leachate to waters.

L3 Waste

- L3.1 The licensee must not cause, permit or allow any waste to be received at the premises, except the wastes expressly referred to in the column titled “Waste” and meeting the definition, if any, in the column titled “Description” in the table below.

Any waste received at the premises must only be used for the activities referred to in relation to that waste in the column titled “Activity” in the table below.

Any waste received at the premises is subject to those limits or conditions, if any, referred to in relation to that waste contained in the column titled “Other Limits” in the table below.

This condition does not limit any other conditions in this licence.

Code	Waste	Description	Activity	Other Limits
NA	General solid waste (non-putrescible)	As defined in Schedule 1 of the POEO Act, in force from time to time.	Composting Waste disposal (application to land) Waste storage	
NA	General solid waste (putrescible)	As defined in Schedule 1 of the POEO Act, in force from time to time	Composting Waste disposal (application to land) Waste storage	
NA	Potential Acid Sulfate Soils	Meets the definition of Virigin Excavated Natural Material as defined in Schedule 1 of the POEO Act, in force from time to time, even though they contain sulfidic ores or soils.	Waste disposal (application to land)	Must be disposed of at least 1 metre below the permanent water table.
NA	Asbestos waste	As defined in Schedule 1 of the POEO Act, in force from time to time.	Waste disposal (application to land) Waste storage	NA
NA	Waste tyres	As defined in Schedule 1 of the POEO Act, in force from time to time.	Waste disposal (application to land) Waste storage	NA
NA	Building and demolition	As defined in Schedule	Waste storage	N/A

Environment Protection Licence

Licence - 5984



	waste	1 of the POEO Act, in force from time to time.		
NA	Waste	Any waste received on site that is below licensing thresholds in Schedule 1 of the POEO Act, as in force from time to time	-	NA

L3.2 The total quantity of used, rejected or unwanted tyres (including shredded tyres and tyre pieces) stockpiled at the premises at any time must not exceed 50 tonnes or 5,000 waste tyres.

L3.3 The licensee must not dispose of any tyres on the premises which;

- have a diameter of less than 1.2 metres; and
- are delivered at the premises in a load containing more than 5 whole tyres; and
- became waste in the Sydney Metropolitan Area.

Note: This condition does not apply where:

- The tyres received comply with the EPA Tyre Disposal Specifications; or
- The premises have the capacity, at the time of unloading the tyres, to comply with the EPA Tyre Disposal Specifications; or
- The premises have the capacity, at the time of unloading the tyres, to recycle or process the tyres into a saleable product, including retreading the tyres.

L4 Potentially offensive odour

L4.1 The licensee must not cause or permit the emission of offensive odour beyond the boundary of the premises.

L5 Other limit conditions

L5.1 For each monitoring/discharge point or utilisation area specified in the table below (by point number), the parameter must be greater than the limit specified for that parameter in the table:

POINT 14

Parameter	Units of Measure	Lower Limit	Averaging Period
Residence Time	seconds	0.6	1 hour rolling average
Temperature	degrees Celcius	760	1 hour rolling average

4 Operating Conditions

O1 Activities must be carried out in a competent manner

Environment Protection Licence



Licence - 5984

O1.1 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.

O2 Maintenance of plant and equipment

O2.1 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.

O3 Dust

O3.1 All operations and activities occurring at the premises must be carried out in a manner that will minimise the emission of dust from the premises.

O3.2 All sealed surfaces intended to carry vehicular traffic must be kept clean.

O4 Effluent application to land

O4.1 Drainage from areas not subject to waste disposal or leachate disposal activities must be directed away from leachate collection and runoff control areas.

O4.2 The licensee must maintain a leachate management system to collect and direct all leachate to a point for treatment and disposal either to sewer, offsite disposal or by irrigation.

O4.3 Irrigation must only occur in areas where surface drainage is directed to runoff control ponds.

O4.4 The volume of leachate directed to the irrigation area must not exceed the capacity of the area to assimilate the liquid.

O4.5 The irrigation area must be maintained in a proper and efficient condition so as to provide adequate percolation, evaporation and transpiration of the wastewater.

O4.6 Irrigation of leachate must not be carried out if soil moisture conditions are such that subsurface runoff or ponding is likely to occur.

O5 Emergency response

O5.1 The licensee must take all necessary steps to extinguish all fires burning in wastes as soon as possible. The necessary steps must be taken within 30 minutes of the fire being ignited during the hours when the site is open to the public and within one hour of being notified of the existence during the hours when the

Environment Protection Licence



Licence - 5984

site is not open to the public.

O5.2 The licensee must have adequate fire prevention measures in place, and ensure that facility personnel are able to access fire-fighting equipment and manage fire outbreaks at any part of the premises.

O6 Processes and management

O6.1 The licensee must take all practicable steps to control entry to the premises.

O6.2 The licensee must ensure that all gates are locked whenever the landfill is unattended.

O7 Waste management

O7.1 The licensee must have in place and implement procedures to screen, identify and prevent the disposal of any waste not permitted by this licence to be disposed of at the premises.

O7.2 The last licensee must prepare and submit to the EPA within six months of the last load of waste being landfilled, a closure plan in accordance with section 76 of the Protection of the Environment Operations Act 1997.

O7.3 Landfill cells must be capped progressively in accordance with the capping profile outlined in 'Dunmore Recycling and Waste Disposal Depot - Landfill Capping - Infiltration Memorandum', GHD, 11 August 2014 (TRIM Reference DOC15/64859).

O7.4 The licensee must prepare and implement a Quality Assurance / Quality Control (QA/QC) Plan for the construction and installation of the approved landfill cap. The QA/QC Plan must be prepared by a suitably qualified and independent consultant.

O7.5 The licensee must submit a report prepared in accordance with the QA/QC program to the EPA within 2 months of the completion of the approved final landfill cap.

The QA/QC program must be prepared in accordance with all relevant Australian Standards and include:

- i) a description of the works undertaken;
- ii) works as executed drawings;
- iii) a discussion of the QA/QC activities undertaken;
- iv) results of quality control testing undertaken (including material validation etc);
- v) photographs documenting all major stages of installation;
- vi) a statement from a qualified engineer confirming the works were constructed in accordance with the specifications;
- vii) any variations should be noted and explained.

Note: The QA/QC report must be prepared by a suitably qualified, independent, 3rd party consultant.

O7.6 The licensee must ensure that stockpiles of used, rejected or unwanted tyres (including shredded tyres and tyre pieces) are located in a clearly defined area.

O7.7 The licensee must ensure that stockpiles of used, rejected or unwanted tyres (including shredded tyres and tyre pieces) are managed so as not to cause or to be likely to cause the spread of disease by vermin.

O7.8 The licensee must ensure that measures are taken to prevent stockpiles of used, rejected or unwanted

Environment Protection Licence



Licence - 5984

tyres (including shredded tyres and tyre pieces) from catching on fire.

O7.9 Cover material must be:

(a) Daily cover

Daily cover must be either:

- (i) virgin excavated natural material ("VENM"); or
- (ii) a steel moveable structure; or
- (iii) a steel framed and fabric covered moveable structure; or
- (iv) "Posi-Shell" mortar coating used in accordance with the procedures and recommendations contained in the report titled "Report for the Use of Approved Alternative Daily Cover at the Dunmore Recycling and Waste Disposal Depot EPL 5984" prepared by Shellharbour City Council and dated 29 February 2016; or
- (v) approved alternative daily cover.

Where VENM is used as daily cover it must be applied to a minimum depth of 150 millimetres over all exposed landfilled waste prior to ceasing operations at the end of each day.

(b) Intermediate cover

Cover material must be applied to a depth of 300 millimetres over surfaces of the landfilled waste at the premises which are to be exposed for more than 90 days.

(c) Cover material stockpile

At least two weeks cover material must be available at the premises under all weather conditions. This material may be won on site, or alternatively a cover stockpile must be maintained adjacent to the tip face.

O7.10 Vehicles leaving the premises must not track materials to external surfaces.

O7.11 The licensee must not exhume any landfilled waste unless approved in writing by the EPA.

O7.12 The licensee must provide a report to the EPA which details the design, construction, operation and rehabilitation of any new landfill cell. This report must be submitted to the EPA at least six months before the licensee intends to construct the cell, and it must include details on a QA/QC program which can demonstrate that the cell was constructed to meet its design specifications.

O7.13 The licensee must obtain approval from the EPA prior to constructing any landfill cells at the premises.

O7.14 The licensee must install, operate and maintain leachate level monitoring and control devices on leachate tanks.

O7.15 The volume of leachate in leachate tanks (monitoring point 15) must be managed to prevent overflow.

O7.16 The licensee must construct landfill cell 5B in accordance with the designs, specifications, methods and construction quality assurance plan contained in the following:

- a) Dunmore Landfill - Cell 5B Technical Specification - Shellharbour City Council - July 2017 - Ref No.20155569FS4B;

and include a leachate barrier on the cell floor and walls comprising from bottom to top:

Environment Protection Licence



Licence - 5984

1. a prepared sub-base;
2. a geosynthetic clay liner;
3. a geomembrane;
4. a protection geotextile;
5. a leachate collection layer comprising 300mm of gravel and collection pipework;
6. a separation geotextile.

O7.17 Following construction of landfill cell 5B, the licensee must submit a Construction Quality Assurance Report on the quality assurances that were implemented to ensure that the works comply with the approved designs, specifications and methods.

O7.18 The licensee must not deposit any waste in landfill cell 5B until the EPA has approved the Construction Quality Assurance Report in writing.

O8 Other operating conditions

O8.1 Disturbed areas must be provided with separate water quality controls for the treatment of runoff containing suspended or turbid pollutants.

5 Monitoring and Recording Conditions

M1 Monitoring records

M1.1 The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.

M1.2 All records required to be kept by this licence must be:

- a) in a legible form, or in a form that can readily be reduced to a legible form;
- b) kept for at least 4 years after the monitoring or event to which they relate took place; and
- c) produced in a legible form to any authorised officer of the EPA who asks to see them.

M1.3 The following records must be kept in respect of any samples required to be collected for the purposes of this licence:

- a) the date(s) on which the sample was taken;
- b) the time(s) at which the sample was collected;
- c) the point at which the sample was taken; and
- d) the name of the person who collected the sample.

M2 Requirement to monitor concentration of pollutants discharged

M2.1 For each monitoring/discharge point or utilisation area specified below (by a point number), the licensee must monitor (by sampling and obtaining results by analysis) the concentration of each pollutant specified in Column 1. The licensee must use the sampling method, units of measure, and sample at the frequency, specified opposite in the other columns:

Environment Protection Licence



Licence - 5984

M2.2 Air Monitoring Requirements

POINT 12

Pollutant	Units of measure	Frequency	Sampling Method
Methane	percent by volume	Quarterly	Special Method 1

POINT 13

Pollutant	Units of measure	Frequency	Sampling Method
Methane	percent by volume	Quarterly	Special Method 1

POINT 14

Pollutant	Units of measure	Frequency	Sampling Method
Temperature	degrees Celsius	Continuous	TM-2
Volumetric flowrate	cubic metres per second	Continuous	CEM-6

M2.3 Water and/ or Land Monitoring Requirements

POINT 2,15

Pollutant	Units of measure	Frequency	Sampling Method
Alkalinity (as calcium carbonate)	milligrams per litre	Special Frequency 1	Grab sample
Ammonia	milligrams per litre	Special Frequency 1	Grab sample
Calcium	milligrams per litre	Special Frequency 1	Grab sample
Chloride	milligrams per litre	Special Frequency 1	Grab sample
Conductivity	microsiemens per centimetre	Special Frequency 1	Grab sample
Dissolved Oxygen	milligrams per litre	Special Frequency 1	Grab sample
Fluoride	milligrams per litre	Special Frequency 1	Grab sample
Iron	milligrams per litre	Special Frequency 1	Grab sample
Manganese	milligrams per litre	Special Frequency 1	Grab sample
Nitrate	milligrams per litre	Special Frequency 1	Grab sample
Nitrite	milligrams per litre	Special Frequency 1	Grab sample
pH	pH	Special Frequency 1	Grab sample
Potassium	milligrams per litre	Special Frequency 1	Grab sample
Sulfate	milligrams per litre	Special Frequency 1	Grab sample
Temperature	degrees Celsius	Special Frequency 1	Grab sample
Total organic carbon	milligrams per litre	Special Frequency 1	Grab sample

Environment Protection Licence

Licence - 5984



POINT 3,5,6,7,10,11

Pollutant	Units of measure	Frequency	Sampling Method
Ammonia	milligrams per litre	Quarterly	Grab sample
Bicarbonate	milligrams per litre	Quarterly	Grab sample
Calcium	milligrams per litre	Quarterly	Grab sample
Chloride	milligrams per litre	Quarterly	Grab sample
Conductivity	microsiemens per centimetre	Quarterly	Grab sample
Fluoride	milligrams per litre	Quarterly	Grab sample
Iron	milligrams per litre	Quarterly	Grab sample
Manganese	milligrams per litre	Quarterly	Grab sample
Nitrate	milligrams per litre	Quarterly	Grab sample
Nitrite	milligrams per litre	Quarterly	Grab sample
pH	pH	Quarterly	Grab sample
Potassium	milligrams per litre	Quarterly	Grab sample
Standing Water Level	metres	Quarterly	In situ
Sulfate	milligrams per litre	Quarterly	Grab sample
Temperature	degrees Celsius	Quarterly	Grab sample
Total organic carbon	milligrams per litre	Quarterly	Grab sample

Note: Special Frequency 1 means quarterly and during periods of overflow.

Note: Special Method 1 means in accordance with the procedures described in Benchmark Techniques 17 and 18 of the *Environmental Guidelines: Solid Waste Landfills* (EPA, 1996).

M3 Testing methods - concentration limits

M3.1 Monitoring for the concentration of a pollutant emitted to the air required to be conducted by this licence must be done in accordance with:

- any methodology which is required by or under the Act to be used for the testing of the concentration of the pollutant; or
- if no such requirement is imposed by or under the Act, any methodology which a condition of this licence requires to be used for that testing; or
- if no such requirement is imposed by or under the Act or by a condition of this licence, any methodology approved in writing by the EPA for the purposes of that testing prior to the testing taking place.

Note: The *Protection of the Environment Operations (Clean Air) Regulation 2010* requires testing for certain purposes to be conducted in accordance with test methods contained in the publication "Approved Methods for the Sampling and Analysis of Air Pollutants in NSW".

M3.2 Subject to any express provision to the contrary in this licence, monitoring for the concentration of a

Environment Protection Licence



Licence - 5984

pollutant discharged to waters or applied to a utilisation area must be done in accordance with the Approved Methods Publication unless another method has been approved by the EPA in writing before any tests are conducted.

M4 Environmental monitoring

M4.1 The licensee is required to install and maintain a rainfall depth measuring device.

M4.2 Rainfall at the premises must be measured and recorded in millimetres per 24 hour period, at the same time each day.

M5 Recording of pollution complaints

M5.1 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.

M5.2 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.

M5.3 The record of a complaint must be kept for at least 4 years after the complaint was made.

M5.4 The record must be produced to any authorised officer of the EPA who asks to see them.

M6 Telephone complaints line

M6.1 The licensee must operate during its operating hours a 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.

M6.2 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.

M6.3 The preceding two conditions do not apply until 3 months after: the date of the issue of this licence.

M7 Other monitoring and recording conditions

Environment Protection Licence



Licence - 5984

M7.1 The licensee must monitor the remaining disposal capacity (in cubic metres) of the landfill.

M7.2 The licensee must monitor the level of leachate in all leachate tanks and leachate sumps on a daily basis.

6 Reporting Conditions

R1 Annual return documents

- R1.1 The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:
1. a Statement of Compliance,
 2. a Monitoring and Complaints Summary,
 3. a Statement of Compliance - Licence Conditions,
 4. a Statement of Compliance - Load based Fee,
 5. a Statement of Compliance - Requirement to Prepare Pollution Incident Response Management Plan,
 6. a Statement of Compliance - Requirement to Publish Pollution Monitoring Data; and
 7. a Statement of Compliance - Environmental Management Systems and Practices.

At 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.

R1.2 An Annual Return must be prepared in respect of each reporting period, 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.

- R1.3 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.

- R1.4 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.

R1.5 The Annual Return for the reporting period must be supplied to the EPA via eConnect *EPA* or 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').

R1.6 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.

Environment Protection Licence



Licence - 5984

- R1.7 Within the Annual Return, the Statements of Compliance must be certified and the Monitoring and Complaints Summary must be signed by:
- the licence holder; or
 - by a person approved in writing by the EPA to sign on behalf of the licence holder.
- R1.8 The Annual Return must be accompanied by/or include an Annual Report which must contain an assessment of environmental performance relevant to licence conditions including:
- tabulated results of all monitoring data required to be collected by this licence;
 - a graphical presentation of data from at least the last three years (if available) in order to show variability and/or trends. Any statistically significant variations or anomalies should be highlighted and explained;
 - an analysis and interpretation of all monitoring data;
 - an analysis of and response to any complaints received;
 - identification of any deficiencies in environmental performance identified by the monitoring data, trends or incidents and of remedial action taken or proposed to be taken to address these deficiencies; and
 - recommendations on improving the environmental performance of the facility.

R2 Notification of environmental harm

Note: The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.

- R2.1 Notifications must be made by telephoning the Environment Line service on 131 555.
- R2.2 The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred.

R3 Written report

- R3.1 Where an authorised officer of the EPA suspects on reasonable grounds that:
- where this licence applies to premises, an event has occurred at the premises; or
 - 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.
- R3.2 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.
- R3.3 The request may require a report which includes any or all of the following information:
- the cause, time and duration of the event;
 - the type, volume and concentration of every pollutant discharged as a result of the event;
 - 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;

Environment Protection Licence



Licence - 5984

- 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; and
- g) any other relevant matters.

R3.4 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.

R4 Other reporting conditions

- R4.1 The licensee must maintain a daily log and record the following data of fires at the site:
- a) Time and date when the fire was deliberately started or reported.
 - b) Whether the fire was authorised by the licensee, and, if not, the circumstances which ignited the fire.
 - c) The time and date that the fire ceased and whether it burnt out or was extinguished.
 - d) The location of fire (eg. clean timber stockpile, putrescible garbage cell, etc).
 - e) Prevailing weather conditions.
 - f) Observations made in regard to smoke direction and dispersion.
 - g) The amount of waste that was combusted by the fire.
 - h) Action taken to extinguish the fire.
- R4.2 The licensee or its employees or agents must notify the EPA in accordance with conditions R2.1 and R2.2 of all fires at the premises as soon as practical after becoming aware of the incident.
- R4.3 The licensee must notify the EPA within 24 hours by telephoning the Environment Line service on 131 555 if any landfill gas monitoring required by this licence detects methane above 1% (v/v), and increase the frequency of monitoring to daily, until the EPA determines otherwise.

7 General Conditions

G1 Copy of licence kept at the premises or plant

- G1.1 A copy of this licence must be kept at the premises to which the licence applies.
- G1.2 The licence must be produced to any authorised officer of the EPA who asks to see it.
- G1.3 The licence must be available for inspection by any employee or agent of the licensee working at the premises.

Environment Protection Licence

Licence - 5984



8 Special Conditions

E1 Disposal of Potential Acid Sulfate Soils (PASS) Under Water

- E1.1 Soil that has been assessed by a Certified Practicing Soil Scientist (CPSS) in accordance with the ASSMAC guidelines and determined to be PASS and which satisfies all of the requirements for classification as Virgin Excavated Natural Material (VENM), except that it contains sulphidic soils, and which is disposed of under water according to this licence may be received for disposal at the premises.
- E1.2 The licensee must receive documentation for each truck load of PASS received at the premises (see reporting conditions) which demonstrates that the excavation of PASS and its transport and handling was conducted in accordance with the NSW Acid Sulfate Soil Manual (Acid Sulfate Soil Management Advisory Committee, August 1998) to prevent the generation of acid.
- E1.3 PASS must be disposed of at least 1 metre below the permanent water table level at the premises.
- E1.4 Any PASS received at the premises must be placed below the water table within 24 hours of the time of its excavation at the originating site.
- E1.5 Any PASS which has dried out, undergone any oxidation of sulphidic minerals or which has a pH of less than 5.5 must not be disposed of at this premises.
- E1.6 The pH of the PASS immediately prior to under water disposal must be not less than 5.5.
- E1.7 The pH of the water into which the PASS is placed must not be less than 6.0 at any time.
- E1.8 If the pH of the water falls below 6.5, the licensee must not receive any more PASS at the premises until approval to continue is received in writing from the EPA.
- E1.9 The pH of each load of PASS must be tested at the disposal site immediately prior to its placement under water using the test method referred to in the NSW Acid Sulfate Soil Manual (Method 21A and/or Method 21Af).
- E1.10 The pH of the water into which the PASS is placed must be monitored using the sample method, unit of measure, and sampling frequency, specified in the table below:

Pollutant	Unit of Measure	Frequency	Sampling Method
pH	pH	Special Frequency	Grab Sample

Note: Special Frequency means daily during PASS placement into the water, and thereafter weekly for a period of six months from the date the last load of PASS was placed under the water.

- E1.11 The licensee must monitor the pH of both up and down gradient groundwater at the premises at least once every three months for a minimum of 1 year after the last load of PASS has been disposed of.
- E1.12 If the pH of the water falls below 6.5 the licensee must notify the EPA in writing as soon as practicable and within 24 hours.

Environment Protection Licence



Licence - 5984

- E1.13 The results of all monitoring required under conditions E1.10 and E1.11 must be submitted to the EPA in the Annual Return.
- E1.14 A graph showing pH of the water at the monitoring frequency specified in condition E1.10 for each year must be included in the Annual Return. The format must show the pond water pH trend over the life of the licence.
- E1.15 A graph showing quarterly pH in the up and down gradient groundwater at the monitoring frequency specified in condition E1.11 must be included in the Annual Return. The format must show the groundwater pH trend over the life of the licence.
- E1.16 The licensee must retain certain documentation for each truck load of PASS received at the premises which indicates:
- a) the details of the originating site (name, address, owner and developer, contact details);
 - b) the details of the transporter (name, address, contact details, vehicle registration);
 - c) date and time of the extraction of the PASS;
 - d) pH of the PASS at the time of its extraction, and at the time immediately prior to its placement under water; and
 - e) the name of the person (Certified Practicing Soil Scientist) who assessed the material and classified it as PASS.
- The documentation must be retained by the licensee for four years from the date of receipt of the PASS.
- E1.17 Only PASS that meets the requirements of Condition E1.1 and VENM may be deposited in the water. No other waste is to be deposited in the water.

E2 Environmental Monitoring Point BH18 and Review

- E2.1 By no later than two (2) months after the completion of the redevelopment works at the Dunmore Resource Recovery Facility, the licensee must reinstate BH18.
- E2.2 By no later than four (4) months after the completion of the redevelopment works at the Dunmore Resource Recovery Facility, the licensee must undertake a review of the entire monitoring network at the premises to determine its adequacy and provide the EPA with a report detailing the findings of the review and any recommendations.

Environment Protection Licence



Licence - 5984

Dictionary

General Dictionary

3DGM [in relation to a concentration limit]	Means the three day geometric mean, which is calculated by multiplying the results of the analysis of three samples collected on consecutive days and then taking the cubed root of that amount. Where one or more of the samples is zero or below the detection limit for the analysis, then 1 or the detection limit respectively should be used in place of those samples
Act	Means the Protection of the Environment Operations Act 1997
activity	Means a scheduled or non-scheduled activity within the meaning of the Protection of the Environment Operations Act 1997
actual load	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
AM	Together with a number, means an ambient air monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
AMG	Australian Map Grid
anniversary date	The anniversary date is the anniversary each year of the date of issue of the licence. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
annual return	Is defined in R1.1
Approved Methods Publication	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
assessable pollutants	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
BOD	Means biochemical oxygen demand
CEM	Together with a number, means a continuous emission monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
COD	Means chemical oxygen demand
composite sample	Unless otherwise specifically approved in writing by the EPA, a sample consisting of 24 individual samples collected at hourly intervals and each having an equivalent volume.
cond.	Means conductivity
environment	Has the same meaning as in the Protection of the Environment Operations Act 1997
environment protection legislation	Has the same meaning as in the Protection of the Environment Administration Act 1991
EPA	Means Environment Protection Authority of New South Wales.
fee-based activity classification	Means the numbered short descriptions in Schedule 1 of the Protection of the Environment Operations (General) Regulation 2009.
general solid waste (non-putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997

Environment Protection Licence



Licence - 5984

flow weighted composite sample	Means a sample whose composites are sized in proportion to the flow at each composites time of collection.
general solid waste (putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
grab sample	Means a single sample taken at a point at a single time
hazardous waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
licensee	Means the licence holder described at the front of this licence
load calculation protocol	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
local authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
material harm	Has the same meaning as in section 147 Protection of the Environment Operations Act 1997
MBAS	Means methylene blue active substances
Minister	Means the Minister administering the Protection of the Environment Operations Act 1997
mobile plant	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
motor vehicle	Has the same meaning as in the Protection of the Environment Operations Act 1997
O&G	Means oil and grease
percentile [in relation to a concentration limit of a sample]	Means that percentage [eg.50%] of the number of samples taken that must meet the concentration limit specified in the licence for that pollutant over a specified period of time. In this licence, the specified period of time is the Reporting Period unless otherwise stated in this licence.
plant	Includes all plant within the meaning of the Protection of the Environment Operations Act 1997 as well as motor vehicles.
pollution of waters [or water pollution]	Has the same meaning as in the Protection of the Environment Operations Act 1997
premises	Means the premises described in condition A2.1
public authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
regional office	Means the relevant EPA office referred to in the Contacting the EPA document accompanying this licence
reporting period	For the purposes of this licence, the reporting period means the period of 12 months after the issue of the licence, and each subsequent period of 12 months. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
restricted solid waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
scheduled activity	Means an activity listed in Schedule 1 of the Protection of the Environment Operations Act 1997
special waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
TM	Together with a number, means a test method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .

Environment Protection Licence



Licence - 5984

TSP	Means total suspended particles
TSS	Means total suspended solids
Type 1 substance	Means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or more of those elements
Type 2 substance	Means the elements beryllium, chromium, cobalt, manganese, nickel, selenium, tin or vanadium or any compound containing one or more of those elements
utilisation area	Means any area shown as a utilisation area on a map submitted with the application for this licence
waste	Has the same meaning as in the Protection of the Environment Operations Act 1997
waste type	Means liquid, restricted solid waste, general solid waste (putrescible), general solid waste (non - putrescible), special waste or hazardous waste

Ms Debbie Maddison

Environment Protection Authority

(By Delegation)

Date of this edition: 01-December-2000

Environment Protection Licence



Licence - 5984

End Notes

- 1 Licence varied by notice 1004544, issued on 26-Jun-2001, which came into effect on 21-Jul-2001.
- 2 Licence varied by notice 1027426, issued on 09-Jan-2004, which came into effect on 03-Feb-2004.
- 3 Licence varied by notice 1035890, issued on 29-Apr-2004, which came into effect on 24-May-2004.
- 4 Licence varied by notice 1046130, issued on 27-May-2005, which came into effect on 21-Jun-2005.
- 5 Licence varied by change to DEC Region allocation, issued on 17-Mar-2006, which came into effect on 17-Mar-2006.
- 6 Licence varied by change to EPA Region, issued on 07-Aug-2006, which came into effect on 07-Aug-2006.
- 7 Licence varied by notice 1067471, issued on 09-Jul-2008, which came into effect on 09-Jul-2008.
- 8 Condition A1.3 Not applicable varied by notice issued on <issue date> which came into effect on <effective date>
- 9 Licence varied by notice 1100317, issued on 31-Jul-2009, which came into effect on <date to be advised>
- 10 Licence varied by notice 1100317, issued on 03-Aug-2009, which came into effect on 03-Aug-2009.
- 11 Licence varied by notice 1506270 issued on 15-Apr-2013
- 12 Licence varied by notice 1514913 issued on 30-Aug-2013
- 13 Licence varied by notice 1523447 issued on 23-Jul-2014
- 14 Licence varied by notice 1528980 issued on 11-Mar-2015
- 15 Licence varied by notice 1531918 issued on 21-Jul-2015
- 16 Licence varied by notice 1534516 issued on 17-Aug-2016
- 17 Licence varied by notice 1544555 issued on 14-Oct-2016
- 18 Licence varied by notice 1546148 issued on 02-Nov-2016
- 19 Licence varied by notice 1549189 issued on 19-Feb-2017
- 20 Licence varied by notice 1551369 issued on 16-May-2017
- 21 Licence varied by notice 1553686 issued on 04-Jul-2017
- 22 Licence varied by notice 1553686 issued on 04-Jul-2017

Environment Protection Licence

Licence - 5984



23 Licence varied by notice 1554398 issued on 23-Aug-2017

Environment Protection Licence

Licence - 5862

Licence Details

Number:	5862
Anniversary Date:	29-May

Licensee

WOLLONGONG CITY COUNCIL
 LOCKED BAG 8821
 WOLLONGONG DC NSW 2500

Premises

WHYTES GULLY WASTE DISPOSAL FACILITY
 REDDALLS ROAD
 KEMBLA GRANGE NSW 2526

Scheduled Activity

Waste disposal (application to land)

Fee Based Activity

Scale

Waste disposal by application to land

Any capacity

Region

Waste & Resource Recovery
 59-61 Goulburn Street
 SYDNEY NSW 2000
 Phone (02) 9995 5000
 Fa (02) 9995 5999
 PO Box A290
 SYDNEY SOUTH NSW 1232



Environment Protection Licence

Licence - 5862

INFORMATION ABOUT THIS LICENCE	4
Dictionary	4
Responsibilities of licensee	4
Variation of licence conditions	4
Duration of licence	4
Licence review	4
Fees and annual return to be sent to the EPA	4
Transfer of licence	5
Public register and access to monitoring data	5
1 ADMINISTRATIVE CONDITIONS	6
A1 What the licence authorises and regulates	6
A2 Premises or plant to which this licence applies	6
A3 Information supplied to the EPA	6
2 DISCHARGES TO AIR AND WATER AND APPLICATIONS TO LAND	7
P1 Location of monitoring/discharge points and areas	7
3 LIMIT CONDITIONS	10
L1 Pollution of waters	10
L2 Concentration limits	11
L3 Waste	11
L4 Potentially offensive odour	12
4 OPERATING CONDITIONS	12
O1 Activities must be carried out in a competent manner	12
O2 Maintenance of plant and equipment	13
O3 Dust	13
O4 Emergency response	13
O5 Processes and management	13
O6 Waste management	13
O7 Other operating conditions	14
5 MONITORING AND RECORDING CONDITIONS	15
M1 Monitoring records	15
M2 Requirement to monitor concentration of pollutants discharged	15
M3 Testing methods - concentration limits	18
M4 Recording of pollution complaints	18
M5 Telephone complaints line	18



Environment Protection Licence

Licence - 5862

M6	Other monitoring and recording conditions	19
6	REPORTING CONDITIONS	19
R1	Annual return documents	19
R2	Notification of environmental harm	20
R3	Written report	20
R4	Other reporting conditions	21
7	GENERAL CONDITIONS	22
G1	Copy of licence kept at the premises or plant	22
8	SPECIAL CONDITIONS	22
E1	Environmental Obligations of Licensee (Works & Programs)	22
DICTIONARY		23
	General Dictionary	23

Environment Protection Licence

Licence - 5862



Information about this licence

Dictionary

A definition of terms used in the licence can be found in the dictionary at the end of this licence.

Responsibilities of licensee

Separate to the requirements of this licence, general obligations of licensees are set out in the Protection of the Environment Operations Act 1997 ("the Act") and the Regulations made under the Act. These include obligations to:

- ensure persons associated with you comply with this licence, as set out in section 64 of the Act;
- control the pollution of waters and the pollution of air (see for example sections 120 - 132 of the Act);
- report incidents causing or threatening material environmental harm to the environment, as set out in Part 5.7 of the Act.

Variation of licence conditions

The licence holder can apply to vary the conditions of this licence. An application form for this purpose is available from the EPA.

The EPA may also vary the conditions of the licence at any time by written notice without an application being made.

Where a licence has been granted in relation to development which was assessed under the Environmental Planning and Assessment Act 1979 in accordance with the procedures applying to integrated development, the EPA may not impose conditions which are inconsistent with the development consent conditions until the licence is first reviewed under Part 3.6 of the Act.

Duration of licence

This licence will remain in force until the licence is surrendered by the licence holder or until it is suspended or revoked by the EPA or the Minister. A licence may only be surrendered with the written approval of the EPA.

Licence review

The Act requires that the EPA review your licence at least every 5 years after the issue of the licence, as set out in Part 3.6 and Schedule 5 of the Act. You will receive advance notice of the licence review.

Fees and annual return to be sent to the EPA

For each licence fee period you must pay:

- an administrative fee; and
- a load-based fee (if applicable).

Environment Protection Licence



Licence - 5862

The EPA publication “A Guide to Licensing” contains information about how to calculate your licence fees. The licence requires that an Annual Return, comprising a Statement of Compliance and a summary of any monitoring required by the licence (including the recording of complaints), be submitted to the EPA. The Annual Return must be submitted within 60 days after the end of each reporting period. See condition R1 regarding the Annual Return reporting requirements.

Usually the licence fee period is the same as the reporting period.

Transfer of licence

The licence holder can apply to transfer the licence to another person. An application form for this purpose is available from the EPA.

Public register and access to monitoring data

Part 9.5 of the Act requires the EPA to keep a public register of details and decisions of the EPA in relation to, for example:

- licence applications;
- licence conditions and variations;
- statements of compliance;
- load based licensing information; and
- load reduction agreements.

Under s320 of the Act application can be made to the EPA for access to monitoring data which has been submitted to the EPA by licensees.

This licence is issued to:

WOLLONGONG CITY COUNCIL
LOCKED BAG 8821
WOLLONGONG DC NSW 2500

subject to the conditions which follow.

Environment Protection Licence

Licence - 5862

1 Administrative Conditions

A1 What the licence authorises and regulates

A1.1 This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, fee-based activity classification and the scale of the operation.

Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition.

Scheduled Activity	Fee Based Activity	Scale
Waste disposal (application to land)	Waste disposal by application to land	Any capacity

A2 Premises or plant to which this licence applies

A2.1 The licence applies to the following premises:

Premises Details
WHYTES GULLY WASTE DISPOSAL FACILITY
REDDALLS ROAD
KEMBLA GRANGE
NSW 2526
LOT 2 DP 240557, PART LOT 52 DP 1022266, PART LOT 53 DP 1022266, PART LOT 501 DP 1079122, PART LOT 502 DP 1079122
THE PREMISES BOUNDARY IS DEPICTED BY THE AREA BOUNDED IN GREEN ON THE DRAWING LABELLED "WHYTES GULLY WASTE DISPOSAL FACILITY SITE BOUNDARY PLAN - 2 JULY 2014" (EPA REF DOC14/116147)

A3 Information supplied to the EPA

A3.1 Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence.

In this condition the reference to "the licence application" includes a reference to:

- a) the applications for any licences (including former pollution control approvals) which this licence replaces under the Protection of the Environment Operations (Savings and Transitional) Regulation 1998; and
- b) the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence.

A3.2 The Whytes Gully Landfill Environmental Management Plan (LEMP), dated March 2012 is not to be taken

as part of the documentation in A3.1, other than those parts specifically referenced in this licence.

2 Discharges to Air and Water and Applications to Land

P1 Location of monitoring/discharge points and areas

P1.1 The following points referred to in the table below are identified in this licence for the purposes of monitoring and/or the setting of limits for the emission of pollutants to the air from the point.

<i>Air</i>			
EPA identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
3	Surface gas monitoring		Areas where intermediate or final cover has been placed.
4	Gas accumulation monitoring		Inside all buildings within 250 metres of deposited waste.
21	Subsurface gas monitoring		Monitoring point labelled LFG MW1 on Figure 14 titled "Proposed Landfill Gas Monitoring Locations" dated 6 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E298084 N6184278
22	Subsurface gas monitoring		Monitoring point labelled LFG MW2 on Figure 14 titled "Proposed Landfill Gas Monitoring Locations" dated 6 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E298202 N6184228
23	Subsurface gas monitoring		Monitoring point labelled LFG MW3 on Figure 14 titled "Proposed Landfill Gas Monitoring Locations" dated 6 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E298297 N6184244
24	Subsurface gas monitoring		Monitoring point labelled LFG MW4 on Figure 14 titled "Proposed Landfill Gas Monitoring Locations" dated 6 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E298376 N6184303
25	Subsurface gas monitoring		Monitoring point labelled LFG MW5 on Figure 14 titled "Proposed Landfill Gas Monitoring Locations" dated 6 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E298438 N6184381
26	Subsurface gas monitoring		Monitoring point labelled LFG MW6 on Figure 14 titled "Proposed Landfill Gas Monitoring Locations" dated 6 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E298376 N6184303
27	Subsurface gas monitoring		Monitoring point labelled LFG MW7 on Figure 14 titled "Proposed Landfill Gas Monitoring Locations" dated 6 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E298470 N6184553

Environment Protection Licence

Licence - 5862



28	Subsurface gas monitoring	Monitoring point labelled LFG MW8 on Figure 14 titled "Proposed Landfill Gas Monitoring Locations" dated 6 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E298376 N6184303
29	Subsurface gas monitoring	Monitoring point labelled LFG MW9 on Figure 14 titled "Proposed Landfill Gas Monitoring Locations" dated 6 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E298465 N6184645
30	Subsurface gas monitoring	Monitoring point labelled LFG MW10 on Figure 14 titled "Proposed Landfill Gas Monitoring Locations" dated 6 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E298448 N6184684
31	Subsurface gas monitoring	Monitoring point labelled LFG MW11 on Figure 14 titled "Proposed Landfill Gas Monitoring Locations" dated 6 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E298400 N6184695
32	Subsurface gas monitoring	Monitoring point labelled LFG MW12 on Figure 14 titled "Proposed Landfill Gas Monitoring Locations" dated 6 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E298351 N6184701

P1.2 The following points referred to in the table are identified in this licence for the purposes of the monitoring and/or the setting of limits for discharges of pollutants to water from the point.

Water and land

EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
1	Stormwater monitoring and discharge point	Stormwater monitoring and discharge point	Outlet at Reddalls Road - Monitoring point labelled 1 on Figure 13 titled "Proposed Surface Water Monitoring Locations" dated 26 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E297777 N6183972
5	Groundwater quality monitoring		Monitoring point labelled GABH02 on Figure 15 titled "Current Site Investigation Locations" dated 6 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E297754.9 N6184377
9	Groundwater quality monitoring		Monitoring point labelled GMW102 on Figure 15 titled "Current Site Investigation Locations" dated 6 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E297952.6 N6184807

Environment Protection Licence



Licence - 5862

10	Groundwater quality monitoring	Monitoring point labelled GMW103 on Figure 15 titled "Current Site Investigation Locations" dated 6 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E298470.2 N6184603
11	Groundwater quality monitoring	Monitoring point labelled GMW104 on Figure 15 titled "Current Site Investigation Locations" dated 6 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E297597.9 N6184508
12	Groundwater quality monitoring	Monitoring point labelled GMW105 on Figure 15 titled "Current Site Investigation Locations" dated 6 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E298433.3 N6184397
13	Groundwater quality monitoring	Monitoring point labelled GMW106 on Figure 15 titled "Current Site Investigation Locations" dated 6 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E298356.8 N6184294
14	Groundwater quality monitoring	Monitoring point labelled GMW108S on Figure 15 titled "Current Site Investigation Locations" dated 6 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E297870.2 N6184262
15	Groundwater quality monitoring	Monitoring point labelled GMW108D on Figure 15 titled "Current Site Investigation Locations" dated 6 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E297871.4 N6184262
16	Groundwater quality monitoring	Monitoring point labelled GMW109S on Figure 15 titled "Current Site Investigation Locations" dated 6 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E297605.7 N6184068
17	Groundwater quality monitoring	Monitoring point labelled GMW110 on Figure 15 titled "Current Site Investigation Locations" dated 6 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E297572.6 N6184266
18	Groundwater quality monitoring	Monitoring point labelled GMW111 on Figure 15 titled "Current Site Investigation Locations" dated 6 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E297588.6 N6184385

Environment Protection Licence

Licence - 5862



19	Groundwater quality monitoring	Monitoring point labelled GMW109D on Figure 15 titled "Current Site Investigation Locations" dated 6 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E297604.9 N6184068
20	Groundwater quality monitoring	Monitoring point labelled BH6 on Figure 15 titled "Current Site Investigation Locations" dated 6 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E297807.4 N6184052
33	Stormwater monitoring point	Downstream monitoring point labelled 4 on Figure 13 titled "Proposed Surface Water Monitoring Locations" dated 26 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E297767 N6183396
34	Stormwater monitoring point	Upstream monitoring point labelled 6 on Figure 13 titled "Proposed Surface Water Monitoring Locations" dated 26 March 2012 (Whytes Gully New Landfill Cell EA - Volume IV). E297495 N6184504

3 Limit Conditions

L1 Pollution of waters

L1.1 Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the Protection of the Environment Operations Act 1997.

L1.2 There must be no discharge of contaminated stormwater to waters under dry weather conditions (less than 10 mm of rainfall within a 24 hour period) or a storm event/s of less than 1:10 year, 24 hour recurrence interval (less than 297.4 mm of rainfall within a 24 hour time period).

Discharges of contaminated stormwater from the stormwater ponds caused by a 1:10 year, 24 hour recurrence interval storm event or greater do not constitute a breach of this licence.

L1.3 There must be no discharge of leachate to waters under dry weather conditions (less than 10 mm of rainfall with a 24 hour period) or storm event(s) of less than 1:25 year, 24 hour recurrence interval (less than 371.5 mm of rainfall within a 24 hour time period).

Discharges of leachate from the leachate pond caused by a 1:25 year, 24 hour recurrence interval storm event or greater do not constitute a breach of this licence.

Environment Protection Licence

Licence - 5862

L2 Concentration limits

- L2.1 For each monitoring/discharge point or utilisation area specified in the table\&s below (by a point number), the concentration of a pollutant discharged at that point, or applied to that area, must not exceed the concentration limits specified for that pollutant in the table.
- L2.2 Where a pH quality limit is specified in the table, the specified percentage of samples must be within the specified ranges.
- L2.3 To avoid any doubt, this condition does not authorise the pollution of waters by any pollutant other than those specified in the table\&s.
- L2.4 Water and/or Land Concentration Limits

POINT 1

Pollutant	Units of Measure	50 percentile concentration limit	90 percentile concentration limit	3DGM concentration limit	100 percentile concentration limit
pH	pH				6.5 - 8.5
TSS	milligrams per litre				50

L3 Waste

- L3.1 The licensee must not cause, permit or allow any waste to be received at the premises, except the wastes expressly referred to in the column titled "Waste" and meeting the definition, if any, in the column titled "Description" in the table below.
- Any waste received at the premises must only be used for the activities referred to in relation to that waste in the column titled "Activity" in the table below.
- Any waste received at the premises is subject to those limits or conditions, if any, referred to in relation to that waste contained in the column titled "Other Limits" in the table below.
- This condition does not limit any other conditions in this licence.

Code	Waste	Description	Activity	Other Limits
T140	Tyres	As defined in Schedule 1 of the POEO Act, in force from time to time	Waste storage Waste disposal (application to land)	NA
NA	General solid waste (non-putrescible)	As defined in Schedule 1 of the POEO Act, as in force from time to time	Waste disposal (application to land)	NA

Environment Protection Licence

Licence - 5862

NA	General solid waste (putrescible)	As defined in Schedule 1 of the POEO Act, as in force from time to time	Waste disposal (application to land)	NA
NA	Asbestos waste	As defined in Schedule 1 of the POEO Act, as in force from time to time	Waste disposal (application to land)	NA

- L3.2 The licensee must not dispose of any tyres on the premises which;
- have a diameter of less than 1.2 metres; and
 - are delivered at the premises in a load containing more than 5 whole tyres; and
 - became waste in the Sydney Metropolitan Area.

Note:

This condition does not apply where:

- The tyres received comply with the EPA Tyre Disposal Specifications; or
- The premises have the capacity, at the time of unloading the tyres, to comply with the EPA Tyre Disposal Specifications; or
- The premises have the capacity, at the time of unloading the tyres, to recycle or reprocess the tyres into a saleable product, including retreading the tyres.

- L3.3 Tyres stockpiled on the premises must:
- not exceed fifty (50) tonnes of tyres at any one time; and
 - be located in a clearly defined area away from the tipping face; and
 - be managed to control vermin; and
 - be managed to prevent any tyres from catching fire.

L4 Potentially offensive odour

- L4.1 The licensee must not cause or permit the emission of offensive odour beyond the boundary of the premises.

4 Operating Conditions

O1 Activities must be carried out in a competent manner

- O1.1 Licensed activities must be carried out in a competent manner.

This includes:

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

Environment Protection Licence



Licence - 5862

O2 Maintenance of plant and equipment

- O2.1 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.

O3 Dust

- O3.1 The premises must be maintained in a condition which minimises or prevents the emission of dust from the premises.
- O3.2 All operations and activities occurring at the premises must be carried out in a manner that will minimise the emission of dust from the premises.

O4 Emergency response

- O4.1 The licensee must extinguish fires at the premises as soon as possible.

O5 Processes and management

- O5.1 The licensee must take all practicable steps to control entry to the premises.
- O5.2 The licensee must ensure that all gates are locked whenever the premises is unattended.

O6 Waste management

- O6.1 The licensee must have in place and implement procedures to identify and prevent the disposal of any waste not permitted by this licence to be disposed of at the premises.
- O6.2 The licensee must ensure that the local amenity is not degraded by litter from the premises.
- O6.3 The licensee must only dispose of waste in the Upper Eastern Gully Tipping Face, Cell 1B, Package 3 or Package 2.
- O6.4 The surface of filled areas must have a minimum slope of one per cent with suitable design to prevent ponding of water. Any surface depressions that develop must be restored, graded and compacted to prevent further ponding of water.
- O6.5 The licensee must apply cover material to landfilled waste in accordance with this condition. This cover material must be either Virgin Excavated Natural Material (VENM), Excavated Natural Material (ENM - as defined and characterised by the Excavated Natural Material Order, as in force from time to time), Road Asphalt Profilings (RAP), Steel Furnace Slag (SFS), Steel Framed Fabric or Metal Covered Landfill Lids or an alternative cover approved in writing by the EPA.

Environment Protection Licence



Licence - 5862

- a) Daily cover must be applied to a minimum depth of 150mm over all exposed landfilled waste prior to ceasing operations at the end of each day.
- b) Intermediate cover must be applied to a depth of 300mm over surfaces of the landfilled waste at the premises which are to be exposed for more than 90 days.
- c) Cover material stockpile: at least two weeks cover material must be available at the premises under all weather conditions. This material may be won on site, or alternatively a cover stockpile may be maintained adjacent to the tip face.
- d) Excavated Natural Material used as cover material must be managed in accordance with the practices detailed in the licensee's letter dated 21 March 2017 (Z17/70390).

- O6.6 The licensee must ensure that landfill cells are capped progressively during operations and specifically at times when the level of waste reaches final heights.
- O6.7 Vehicles leaving the premises must not track materials to external surfaces.
- O6.8 The licensee must not exhume any landfilled waste unless approved in writing by the EPA.
- O6.9 The licensee must obtain approval from the EPA prior to constructing any landfill cells at the premises.
- O6.10 The licensee must provide a report to the EPA which details the design, construction, operation and rehabilitation of any new landfill cell. This report must be submitted to the EPA at least six months before the licensee intends to construct the cell, and it must include details on a QA/QC program which can demonstrate that the cell was constructed to meet its design specifications.
- O6.11 Any report prepared in accordance with condition O6.10 must consider the recommendations made in the document titled "Wollongong Waste and Resource Recovery Park - Slope Stability Re-Assessment For Package 2 and Package 3" prepared by Golder Associates and dated 27 June 2018.
- O6.12 The licensee must prepare and maintain a detailed filling plan for each active landfill cell at the premises.
- O6.13 The last licensee must prepare and submit to the EPA within six months prior to the last load of waste being landfilled, a closure plan in accordance with section 76 of the Protection of the Environment Operations Act 1997.

O7 Other operating conditions

- O7.1 Drainage from areas not subject to waste disposal activities must be directed away from the existing leachate collection pond(s).
- O7.2 The licensee must maintain a leachate management system to collect and direct all leachate to a point for treatment and disposal to sewer.
- O7.3 Disturbed areas must be provided with separate water quality controls for the treatment of runoff containing suspended or turbid pollutants.

Environment Protection Licence

Licence - 5862

5 Monitoring and Recording Conditions

M1 Monitoring records

M1.1 The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.

M1.2 All records required to be kept by this licence must be:

- in a legible form, or in a form that can readily be reduced to a legible form;
- kept for at least 4 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.

M1.3 The following records must be kept in respect of any samples required to be collected for the purposes of this licence:

- 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.

M2 Requirement to monitor concentration of pollutants discharged

M2.1 For each monitoring/discharge point or utilisation area specified below (by a point number), the licensee must monitor (by sampling and obtaining results by analysis) the concentration of each pollutant specified in Column 1. The licensee must use the sampling method, units of measure, and sample at the frequency, specified opposite in the other columns:

M2.2 Air Monitoring Requirements

POINT 3

Pollutant	Units of measure	Frequency	Sampling Method
Methane	percent by volume	Special Frequency 2	Special Method 1

POINT 4

Pollutant	Units of measure	Frequency	Sampling Method
Methane	percent by volume	Special Frequency 2	Special Method 2

POINT 21,22,23,24,25,26,27,28,29,30,31,32

Pollutant	Units of measure	Frequency	Sampling Method
Methane	percent by volume	Special Frequency 2	Special Method 3

Environment Protection Licence

Licence - 5862

M2.3 Water and/ or Land Monitoring Requirements

POINT 1,33,34

Pollutant	Units of measure	Frequency	Sampling Method
Alkalinity (as calcium carbonate)	milligrams per litre	Special Frequency 1	Grab sample
Ammonia	milligrams per litre	Special Frequency 1	Grab sample
Calcium	milligrams per litre	Special Frequency 1	Grab sample
Chloride	milligrams per litre	Special Frequency 1	Grab sample
Conductivity	microsiemens per centimetre	Special Frequency 1	Grab sample
Dissolved Oxygen	milligrams per litre	Special Frequency 1	Grab sample
Filterable iron	milligrams per litre	Special Frequency 1	Grab sample
Fluoride	milligrams per litre	Special Frequency 1	Grab sample
Magnesium	milligrams per litre	Special Frequency 1	Grab sample
Nitrate	milligrams per litre	Special Frequency 1	Grab sample
pH	pH	Special Frequency 1	Grab sample
Potassium	milligrams per litre	Special Frequency 1	Grab sample
Sodium	milligrams per litre	Special Frequency 1	Grab sample
Sulfate	milligrams per litre	Special Frequency 1	Grab sample
Temperature	degrees Celsius	Special Frequency 1	In situ
Total organic carbon	milligrams per litre	Special Frequency 1	Grab sample
Total Phenolics	milligrams per litre	Special Frequency 1	Grab sample
Total suspended solids	milligrams per litre	Special Frequency 1	Grab sample

POINT 5,9,10,11,12,13,14,15,16,17,18,19,20

Pollutant	Units of measure	Frequency	Sampling Method
Alkalinity (as calcium carbonate)	milligrams per litre	Quarterly	Grab sample
Aluminium	milligrams per litre	Yearly	Grab sample
Arsenic	milligrams per litre	Yearly	Grab sample
Barium	milligrams per litre	Yearly	Grab sample
Benzene	milligrams per litre	Yearly	Grab sample
Cadmium	milligrams per litre	Yearly	Grab sample
Calcium	milligrams per litre	Quarterly	Grab sample
Chloride	milligrams per litre	Quarterly	Grab sample
Chromium (hexavalent)	milligrams per litre	Yearly	Grab sample
Chromium (total)	milligrams per litre	Yearly	Grab sample
Cobalt	milligrams per litre	Yearly	Grab sample
Conductivity	microsiemens per centimetre	Quarterly	Grab sample
Copper	milligrams per litre	Yearly	Grab sample

Environment Protection Licence



Licence - 5862

Ethyl benzene	micrograms per litre	Yearly	Grab sample
Fluoride	milligrams per litre	Yearly	Grab sample
Lead	milligrams per litre	Yearly	Grab sample
Magnesium	milligrams per litre	Quarterly	Grab sample
Manganese	micrograms per litre	Yearly	Grab sample
Mercury	milligrams per litre	Yearly	Grab sample
Nitrate	milligrams per litre	Yearly	Grab sample
Nitrite	milligrams per litre	Yearly	Grab sample
Nitrogen (ammonia)	milligrams per litre	Quarterly	Grab sample
Organochlorine pesticides	milligrams per litre	Yearly	Grab sample
Organophosphate pesticides	milligrams per litre	Yearly	Grab sample
pH	pH	Quarterly	Probe
Polycyclic aromatic hydrocarbons	milligrams per litre	Yearly	Grab sample
Potassium	milligrams per litre	Quarterly	Grab sample
Sodium	milligrams per litre	Quarterly	Grab sample
Standing Water Level	metres	Quarterly	In situ
Sulfate	milligrams per litre	Quarterly	Grab sample
Toluene	milligrams per litre	Yearly	Grab sample
Total dissolved solids	milligrams per litre	Quarterly	Grab sample
Total organic carbon	milligrams per litre	Quarterly	Grab sample
Total petroleum hydrocarbons	milligrams per litre	Yearly	Grab sample
Total Phenolics	milligrams per litre	Yearly	Grab sample
Xylene	milligrams per litre	Yearly	Grab sample
Zinc	milligrams per kilogram	Yearly	Grab sample

Note: Special frequency 1 means annually and whenever overflows occur.

Note: Special frequency 2 means monthly if an initial survey indicates significant gas.

Note: Special method 1 means in accordance with surface gas emission monitoring procedures described in Section 5.2 Landfill Gas Surface Emission Monitoring of the Environmental Guidelines: Solid Waste Landfills (2016).

Note: Special method 2 means in accordance with gas accumulation monitoring procedures described in Section 5.4 Gas Accumulation Monitoring in Enclosed Structures of the Environmental Guidelines: Solid Waste Landfills (2016)

Note: Special method 3 means in accordance with subsurface gas monitoring procedures described in Section 5.3 Landfill Gas Sub-Surface Monitoring of the Environmental Guidelines: Solid Waste Landfills (2016).

Environment Protection Licence



Licence - 5862

M3 Testing methods - concentration limits

M3.1 Subject to any express provision to the contrary in this licence, monitoring for the concentration of a pollutant discharged to waters or applied to a utilisation area must be done in accordance with the Approved Methods Publication unless another method has been approved by the EPA in writing before any tests are conducted.

Note: The *Protection of the Environment Operations (Clean Air) Regulation 2010* requires testing for certain purposes to be conducted in accordance with test methods contained in the publication "Approved Methods for the Sampling and Analysis of Air Pollutants in NSW".

M3.2 Monitoring for the concentration of a pollutant emitted to the air required to be conducted by this licence must be done in accordance with:

- any methodology which is required by or under the Act to be used for the testing of the concentration of the pollutant; or
- if no such requirement is imposed by or under the Act, any methodology which a condition of this licence requires to be used for that testing; or
- if no such requirement is imposed by or under the Act or by a condition of this licence, any methodology approved in writing by the EPA for the purposes of that testing prior to the testing taking place.

M4 Recording of pollution complaints

M4.1 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.

M4.2 The record must include details of the following:

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

M4.3 The record of a complaint must be kept for at least 4 years after the complaint was made.

M4.4 The record must be produced to any authorised officer of the EPA who asks to see them.

M5 Telephone complaints line

M5.1 The licensee must operate during its operating hours a 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.

Environment Protection Licence



Licence - 5862

M5.2 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.

M5.3 The preceding two conditions do not apply until 3 months after: the date of the issue of this licence.

M6 Other monitoring and recording conditions

M6.1 The licensee must maintain a record of all events involving the removal of any waste that was brought to the facility and which is not permitted to be disposed of at the facility.

M6.2 The licensee must make available to the EPA the results of monthly Trade Waste monitoring of leachate and include these results in the Annual Report.

6 Reporting Conditions

R1 Annual return documents

R1.1 The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:

1. a Statement of Compliance,
2. a Monitoring and Complaints Summary,
3. a Statement of Compliance - Licence Conditions,
4. a Statement of Compliance - Load based Fee,
5. a Statement of Compliance - Requirement to Prepare Pollution Incident Response Management Plan,
6. a Statement of Compliance - Requirement to Publish Pollution Monitoring Data; and
7. a Statement of Compliance - Environmental Management Systems and Practices.

At 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.

R1.2 An Annual Return must be prepared in respect of each reporting period, 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.

R1.3 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.

R1.4 Where this licence is surrendered by the licensee or revoked by the EPA or Minister, the licensee must

Environment Protection Licence



Licence - 5862

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.

R1.5 The Annual Return for the reporting period must be supplied to the EPA via eConnect *EPA* or 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').

R1.6 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.

R1.7 Within the Annual Return, the Statements 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.

R1.8 The Annual Return must be accompanied by/or include an Annual Report which must contain an assessment of environmental performance relevant to licence conditions including:

- a) tabulated results of all monitoring data required to be collected by this licence;
- b) a graphical presentation of data from at least the last three years (if available) in order to show variability and/or trends. Any statistically significant variations or anomalies should be highlighted and explained;
- c) an analysis and interpretation of all monitoring data;
- d) an analysis of and response to any complaints received;
- e) identification of any deficiencies in environmental performance identified by the monitoring data, trends or incidents and of remedial action taken or proposed to be taken to address these deficiencies; and
- f) recommendations on improving the environmental performance of the facility.

R2 Notification of environmental harm

R2.1 Notifications must be made by telephoning the Environment Line service on 131 555.

Note: The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.

R2.2 The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred.

R2.3 The licensee must notify the EPA within 24 hours in accordance with condition R2.1 if surface monitoring detects methane above 1.0 % (v/v), and increase the frequency of monitoring to daily, until the EPA determines otherwise.

R3 Written report

Environment Protection Licence



Licence - 5862

- R3.1 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.
- R3.2 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.
- R3.3 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;
 - 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; and
 - g) any other relevant matters.
- R3.4 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.

R4 Other reporting conditions

- R4.1 The licensee must maintain a daily log and record the following data of fires at the site:
- a) Time and date when the fire was deliberately started or reported.
 - b) Whether the fire was authorised by the licensee, and, if not, the circumstances which ignited the fire.
 - c) The time and date that the fire ceased and whether it burnt out or was extinguished.
 - d) The location of fire (eg. clean timber stockpile, putrescible garbage cell, etc).
 - e) Prevailing weather conditions.
 - f) Observations made in regard to smoke direction and dispersion.
 - g) The amount of waste that was combusted by the fire.
 - h) Action taken to extinguish the fire.
- R4.2 The licensee or its employees or agents must notify the EPA in accordance with conditions R2.1 and R2.2 of all fires at the premises immediately after becoming aware of the incident.

7 General Conditions

Environment Protection Licence



Licence - 5862

G1 Copy of licence kept at the premises or plant

- G1.1 A copy of this licence must be kept at the premises to which the licence applies.
- G1.2 The licence must be produced to any authorised officer of the EPA who asks to see it.
- G1.3 The licence must be available for inspection by any employee or agent of the licensee working at the premises.

8 Special Conditions

E1 Environmental Obligations of Licensee (Works & Programs)

- E1.1 While the licensee's premises are being used for the purpose to which the licence relates, the licensee must:
 - a) Clean up any spill, leak or other discharge of any waste(s) or other material(s) as soon as practicable after it becomes known to the licensee or to one of the licensee's employees or agents.
 - b) In the event(s) that any liquid and non-liquid waste(s) is unlawfully deposited on the premises, such waste(s) must be removed and lawfully disposed of as soon as practicable or in accordance with any direction given by the EPA.
 - c) Provide all monitoring data as required by the conditions of this licence or as directed by the EPA.
- E1.2 In the event of an earthquake, storm, fire, flood or any other event where it is reasonable to suspect that a pollution incident has occurred, is occurring or is likely to occur, the licensee (whether or not the premises continue to be used for the purposes to which the licence relates) must:
 - a) make all efforts to contain all firewater on the licensee's premises,
 - b) make all efforts to control air pollution from the licensee's premises,
 - c) make all efforts to contain any discharge, spill or run-off from the licensee's premises,
 - d) make all efforts to prevent flood water entering the licensee's premises,
 - e) remediate and rehabilitate any exposed areas of soil and/or waste,
 - f) lawfully dispose of all liquid and solid waste(s) stored on the premises that is not already securely disposed of,
 - g) at the request of the EPA monitor groundwater beneath the licensee's premises and its potential to migrate from the licensee's premises,
 - h) at the request of the EPA monitor surface water leaving the licensee's premises; and
 - i) ensure the licensee's premises is secure.
- E1.3 After the licensee's premises cease to be used for the purpose to which the licence relates or in the event that the licensee ceases to carry out the activity that is the subject of this licence, that licensee must:
 - a) remove and lawfully dispose of all liquid and non-liquid waste stored on the licensee's premises; and
 - b) rehabilitate the site, including conducting an assessment of and if required remediation of any site contamination.

Environment Protection Licence

Licence - 5862

Dictionary

General Dictionary

3DGM [in relation to a concentration limit]	Means the three day geometric mean, which is calculated by multiplying the results of the analysis of three samples collected on consecutive days and then taking the cubed root of that amount. Where one or more of the samples is zero or below the detection limit for the analysis, then 1 or the detection limit respectively should be used in place of those samples
Act	Means the Protection of the Environment Operations Act 1997
activity	Means a scheduled or non-scheduled activity within the meaning of the Protection of the Environment Operations Act 1997
actual load	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
AM	Together with a number, means an ambient air monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
AMG	Australian Map Grid
anniversary date	The anniversary date is the anniversary each year of the date of issue of the licence. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
annual return	Is defined in R1.1
Approved Methods Publication	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
assessable pollutants	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
BOD	Means biochemical oxygen demand
CEM	Together with a number, means a continuous emission monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
COD	Means chemical oxygen demand
composite sample	Unless otherwise specifically approved in writing by the EPA, a sample consisting of 24 individual samples collected at hourly intervals and each having an equivalent volume.
cond.	Means conductivity
environment	Has the same meaning as in the Protection of the Environment Operations Act 1997
environment protection legislation	Has the same meaning as in the Protection of the Environment Administration Act 1991
EPA	Means Environment Protection Authority of New South Wales.
fee-based activity classification	Means the numbered short descriptions in Schedule 1 of the Protection of the Environment Operations (General) Regulation 2009.
general solid waste (non-putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997

Environment Protection Licence

Licence - 5862

flow weighted composite sample	Means a sample whose composites are sized in proportion to the flow at each composites time of collection.
general solid waste (putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
grab sample	Means a single sample taken at a point at a single time
hazardous waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
licensee	Means the licence holder described at the front of this licence
load calculation protocol	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
local authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
material harm	Has the same meaning as in section 147 Protection of the Environment Operations Act 1997
MBAS	Means methylene blue active substances
Minister	Means the Minister administering the Protection of the Environment Operations Act 1997
mobile plant	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
motor vehicle	Has the same meaning as in the Protection of the Environment Operations Act 1997
O&G	Means oil and grease
percentile [in relation to a concentration limit of a sample]	Means that percentage [eg.50%] of the number of samples taken that must meet the concentration limit specified in the licence for that pollutant over a specified period of time. In this licence, the specified period of time is the Reporting Period unless otherwise stated in this licence.
plant	Includes all plant within the meaning of the Protection of the Environment Operations Act 1997 as well as motor vehicles.
pollution of waters [or water pollution]	Has the same meaning as in the Protection of the Environment Operations Act 1997
premises	Means the premises described in condition A2.1
public authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
regional office	Means the relevant EPA office referred to in the Contacting the EPA document accompanying this licence
reporting period	For the purposes of this licence, the reporting period means the period of 12 months after the issue of the licence, and each subsequent period of 12 months. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
restricted solid waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
scheduled activity	Means an activity listed in Schedule 1 of the Protection of the Environment Operations Act 1997
special waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
TM	Together with a number, means a test method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .

Environment Protection Licence



Licence - 5862

TSP	Means total suspended particles
TSS	Means total suspended solids
Type 1 substance	Means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or more of those elements
Type 2 substance	Means the elements beryllium, chromium, cobalt, manganese, nickel, selenium, tin or vanadium or any compound containing one or more of those elements
utilisation area	Means any area shown as a utilisation area on a map submitted with the application for this licence
waste	Has the same meaning as in the Protection of the Environment Operations Act 1997
waste type	Means liquid, restricted solid waste, general solid waste (putrescible), general solid waste (non - putrescible), special waste or hazardous waste

Mr Bernie Weir

Environment Protection Authority

(By Delegation)

Date of this edition: 06-December-2000

Environment Protection Licence

Licence - 5862

End Notes

- 1 Licence varied by notice 1004923, issued on 28-Mar-2001, which came into effect on 19-Apr-2001.
- 2 Licence varied by notice 1006649, issued on 15-Jun-2001, which came into effect on 10-Jul-2001.
- 3 Licence varied by notice 1010783, issued on 22-Oct-2001, which came into effect on 16-Nov-2001.
- 4 Licence varied by notice 1013124, issued on 19-Mar-2002, which came into effect on 13-Apr-2002.
- 5 Licence varied by notice 1018823, issued on 11-Jul-2002, which came into effect on 05-Aug-2002.
- 6 Licence fee period changed by notice 1027159 on 07-May-2003.
- 7 Licence varied by notice 1040733, issued on 15-Mar-2005, which came into effect on 21-Mar-2005.
- 8 Licence varied by notice 1046062, issued on 11-Oct-2005, which came into effect on 05-Nov-2005.
- 9 Licence varied by change to DEC Region allocation, issued on 17-Mar-2006, which came into effect on 17-Mar-2006.
- 10 Licence varied by change to EPA Region, issued on 07-Aug-2006, which came into effect on 07-Aug-2006.
- 11 Licence varied by notice 1080328, issued on 20-Nov-2007, which came into effect on 20-Nov-2007.
- 12 Licence varied by notice 1092800, issued on 17-Oct-2008, which came into effect on 17-Oct-2008.
- 13 Condition A1.3 Not applicable varied by notice issued on <issue date> which came into effect on <effective date>
- 14 Licence varied by notice 1095240, issued on 28-Nov-2008, which came into effect on 28-Nov-2008.
- 15 Licence varied by Correction to EPA Region data record., issued on 28-Jun-2010, which came into effect on 28-Jun-2010.
- 16 Licence varied by notice 1502805 issued on 16-Apr-2012
- 17 Licence varied by notice 1506302 issued on 23-Aug-2013
- 18 Licence varied by notice 1522234 issued on 08-Jul-2014
- 19 Licence varied by notice 1525454 issued on 28-Oct-2014

Environment Protection Licence



Licence - 5862

20	Licence varied by notice	1532651 issued on 01-Sep-2015
21	Licence varied by notice	1544472 issued on 14-Oct-2016
22	Licence varied by notice	1546335 issued on 23-Nov-2016
23	Licence varied by notice	1547871 issued on 20-Jan-2017
24	Licence varied by notice	1549078 issued on 06-Jun-2017
25	Licence varied by notice	1553778 issued on 05-Jul-2017
26	Licence varied by notice	1566693 issued on 05-Jul-2018
27	Licence varied by notice	1572784 issued on 20-Dec-2018
28	Licence varied by notice	1576255 issued on 19-Feb-2019
29	Licence varied by notice	1579764 issued on 23-May-2019