

Environment Protection Licence

Licence - 21524

Licence Details

Number:	21524
Anniversary Date:	09-June

Licensee

JOHN HOLLAND PTY LTD

LEVEL 3, 65 PIRRAMA ROAD

PYRMONT NSW 2009

Premises

SYDNEY GATEWAY ROAD PROJECT

BETWEEN ST PETERS INTERCHANGE AND SYDNEY
AIRPORT WITHIN THE SUBURBS OF TEMPE, ST PETERS
AND MASCOT

TEMPE NSW 2044

Scheduled Activity

Road construction

Fee Based Activity

Scale

Road construction ($\geq 50,000T$ & road to be constructed $< 10km$)> 100000-500000 Remaining
extraction or processing

Contact Us

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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).



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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:

JOHN HOLLAND PTY LTD
LEVEL 3, 65 PIRRAMA ROAD
PYRMONT NSW 2009

subject to the conditions which follow.

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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
Road construction	Road construction ($\geq 50,000T$ & road to be constructed $< 10km$)	$> 100000 - 500000$ Remaining extraction or processing

A2 Premises or plant to which this licence applies

A2.1 The licence applies to the following premises:

Premises Details
SYDNEY GATEWAY ROAD PROJECT
BETWEEN ST PETERS INTERCHANGE AND SYDNEY AIRPORT WITHIN THE SUBURBS OF TEMPE, ST PETERS AND MASCOT
TEMPE
NSW 2044
LANDS GENERALLY BETWEEN ST PETERS INTERCHANGE AND SYDNEY AIRPORT WITHIN THE SUBURBS OF TEMPE, ST PETERS AND MASCOT.

A2.2 In relation to Condition A2.1, the premises are defined by the most recent premises map(s) held on EPA Electronic File EF21/959 and approved in writing by the EPA.

A2.3 Premises map(s) changes as a result of scheduled land portion handover, land portion surrenders, land portion additions and any other changes are permitted to be altered through this condition. Any proposed variations to the premises must:

- be submitted to the EPA in electronic format for written approval;
- be clearly described on a complete map set containing unique identifiers for revision number, map sheet numbers and issue date;
- be submitted to the EPA no less than 5 business days prior to the date of the scheduled land portion handover, land portion surrenders, land portion additions or any other changes;
- be clearly described in writing submitted at the same time as the complete map set; and
- demonstrate environmental impacts in relation to any changes have been considered and can be managed in an appropriate manner.

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- A2.4 The approved premises maps must be available for public viewing on the licensee's project website or a related website approved in writing by the EPA no more than 3 business days after the approval of the maps by the EPA.

Note: The requirements outlined in this condition shall only come into force when works and activities commence at the licensed premises.

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 Unless specifically stated by another condition of this licence, Environmental Management Plans or systems supplied to the EPA by the licensee do not form part 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	Landfill gas monitoring		Landfill gas monitoring locations as set out in the Landfill Gas Monitoring Plan SGWPW-JHSW-S1S-EN-SYP-081100, dated 20 August 2021 and submitted to the EPA by John Holland Pty Ltd on 23 August 2020 and held on file EF21/959.

- 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
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2	Monitoring and Discharge	Monitoring and Discharge	The outlet of the water treatment plant into Alexandria canal and outlets of sediment basins referred to in condition P1.3.
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P1.3 The licenced monitoring and discharge points referred to in condition P1.2 and all sediment basins, must be identified in the map(s) most recently submitted and approved in writing by the EPA.

Note: the map(s) are maintained on electronic file EF21/959.

P1.4 All sediment basins on the premises must be identified in a schedule submitted to the EPA. The schedule, including any proposed updates, must:

- be submitted to the EPA in electronic format no less than 10 business days prior to the planned commissioning or decommissioning of sediment basin;
- include the following information:
 - unique identifiers consistent with the maps(s) required by condition P1.3;
 - size, type and discharge criteria, if permitted under condition L2.1 for each sediment basin;
 - the design rainfall depth value, water storage capacity and sediment storage capacity for each sediment basin;
 - criteria for desilting and dewatering that maintains the design storage capacity for each sediment basin;
 - the catchment details and receiving waters of each sediment basin; and
 - easting and northing coordinates for each sediment basin.

Note: The schedule is maintained on electronic file EF21/959.

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

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POINT 2

Pollutant	Units of Measure	50 Percentile concentration limit	90 Percentile concentration limit	3DGM concentration limit	100 percentile concentration limit
Ammonia	micrograms per litre				1200
Anthracene	micrograms per litre				0.4
Arsenic (III)	micrograms per litre				2.3
Arsenic (V)	micrograms per litre				4.5
Barium (dissolved)	milligrams per litre				2
Benzo(a)pyrene	micrograms per litre				0.2
Boron	micrograms per litre				5100
Cadmium (dissolved)	micrograms per litre				5.5
Chromium (hexavalent)	micrograms per litre				20
Chromium (trivalent)	micrograms per litre				49
Cobalt (dissolved)	micrograms per litre				14
Copper (dissolved)	micrograms per litre				3
Ethyl benzene	micrograms per litre				110
Fluoranthene	micrograms per litre				1.4
Iron (dissolved)	micrograms per litre				300
Lead (dissolved)	micrograms per litre				6.6
Manganese (dissolved)	micrograms per litre				80
Mercury (dissolved)	micrograms per litre				0.4

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m-Xylene	micrograms per litre	100
Naphthalene	micrograms per litre	70
Nickel (dissolved)	micrograms per litre	70
Nitrate + nitrite (oxidised nitrogen)	micrograms per litre	15
Nitrogen (total)	micrograms per litre	300
o-Xylene	micrograms per litre	470
Perfluorooctane sulphonate (PFOS)	micrograms per litre	0.13
Perfluorooctanoic acid (PFOA)	micrograms per litre	220
pH	pH	7-8.5
Phenanthrene	micrograms per litre	2
Phosphorus (total)	micrograms per litre	30
p-Xylene	micrograms per litre	250
TPH C10-C36 Fraction	micrograms per litre	600
TPH C6-C9 Fraction	micrograms per litre	150
Turbidity	nephelometric turbidity units	10
Zinc (dissolved)	micrograms per litre	23

L2.5 Exceeding the limits specified in Condition L2.4 of this licence for discharges from the discharge point(s) identified by condition P1.2 is only permitted if:

a) The discharge occurs solely as a result of rainfall measured at the premises exceeding the design rainfall depth value for the corresponding discharge point as described in condition P1.3; and

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b) The sediment basins and other erosion and sediment controls corresponding to the discharge point(s) have been designed, constructed, operated and maintained in accordance with condition O4.2 of this licence.

L3 Noise limits

- L3.1 The licensee must minimise noise and vibration impacts at residences and other sensitive land uses. To meet the requirements of this condition the licensee must:
- implement the guidance in the *Interim Construction Noise Guideline* (DEC, 2009) and the *Assessing Vibration: a technical guideline* (DEC, 2006);
 - implement all reasonable and feasible measures to minimise noise impacts in accordance with the *Interim Construction Noise Guideline* (DEC, 2009); and
 - implement vibration mitigation in accordance with the *Assessing Vibration: a Technical Guideline* (DEC, 2006).

In this condition, 'reasonable' and 'feasible', in relation to noise management, have the same meaning as defined in the *Interim Construction Noise Guideline* (DEC, 2009).

- L3.2 When construction activities include 'High Noise Impact Activities' as defined in the special dictionary in this licence, quantitative construction noise assessments must apply a +5dB correction to the measured or predicted level of construction noise at the nearest sensitive receiver location before assessment against the *Interim Construction Noise Guideline* (DECC, 2009) noise management levels.

L4 Hours of operation

L4.1 Standard construction hours

Unless permitted by another condition of this licence, construction works and activities must:

- only be undertaken between the hours of 7:00 am and 6:00 pm Monday to Friday;
- only be undertaken between the hours of 8:00 am and 6:00 pm Saturday; and
- not be undertaken on Sundays or Public Holidays.

L4.2 High Noise Impact Works

Unless otherwise permitted by another condition of this licence, high noise impact works that result in an exceedance of the applicable Noise Management Level (NML) at the same receiver must only be undertaken:

- between 8:00 am and 6:00 pm Monday to Friday;
- between 8:00 am and 1:00 pm Saturday; and
- in continuous blocks of no more than 3 hours, with at least a 1 hour respite between each block of work generating high noise impact, where the location of the work is likely to impact the same receivers.

Note: For the purposes of this condition, 'continuous' includes any period during which there is less than a 1 hour respite between ceasing and recommencing any of the work that is the subject of this condition.

L4.3 Exemptions to standard construction hours for low noise impact works

Works and activities may be carried out outside of the hours specified in Condition L4.1 if the works and activities do not cause, when measured at the boundary of the most affected noise sensitive receiver:

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- a) LAeq(15 minute) noise levels greater than 5dB above the day, evening and night rating background level (RBL) as applicable;
- b) LA1(1 minute) or LAm_{ax} noise levels greater than 15dB above the night RBL for night works;
- c) continuous or impulsive vibration values greater than those for human exposure to vibration, set out for residences in Table 2.2 in *Assessing Vibration: a technical guideline* (DEC, 2006); and
- d) intermittent vibration values greater than those for human exposure to vibration, set out for residences in Table 2.4 in *Assessing Vibration: a technical guideline* (DEC, 2006).

Note: for the purposes of this condition, the RBLs are those contained in an environmental assessment for the scheduled activity subject to this licence prepared under the Environmental Planning and Assessment Act 1979. Alternatively, the licensee may use another RBL determined in accordance with the *Noise Policy for Industry* (EPA, 2017) and provided to the EPA prior to carrying out any works or activities under this Condition.

L4.4 Exemptions to standard construction hours in exceptional circumstances

- a) The licensee may undertake works outside of standard construction hours for:
 - i. emergency works required to avoid the loss of lives or property, or to prevent material harm to the environment; and
 - ii. the delivery of oversized plant or structures determined by the NSW Police or other authorised authorities to require special arrangements to transport along public roads.
- b) The licensee must, on becoming aware of the need to undertake emergency works under this condition notify the EPA's Environment Line as soon as practicable and submit a report to the EPA by 2:00 pm on the next business day after the emergency works commenced that describes:
 - i. the cause, time and duration of the emergency;
 - ii. action taken by or on behalf of the licensee in relation to the emergency; and
 - iii. details of any measures taken or proposed to be taken by the licensee to prevent or mitigate against a recurrence of the emergency.

Note: For the purposes of this condition, 'material harm to the environment' has the same meaning as in section 147 of the POEO Act.

L4.5 Works outside of standard construction hours - Notification

The licensee must notify potentially affected noise sensitive receivers of works outside of standard construction hours not less than 5 calendar days and not more than 14 calendar days before those works are to be undertaken.

- a) The notification must:
 - i. be undertaken by letterbox drop or email; and
 - ii. be detailed on the project website.
- b) The notification required by this Condition must:
 - i. clearly outline the reason that the works are required to be undertaken outside the hours specified in condition L4.1;
 - ii. include a diagram that clearly identifies the location of the proposed works in relation to nearby cross streets and local landmarks;
 - iii. include details of relevant time restrictions that apply to the proposed works;
 - iv. clearly outline in plain English, the location, nature, scope and duration of the proposed works;
 - v. detail the expected noise impacts of the works on noise sensitive receivers;
 - vi. clearly state how complaints may be made and additional information obtained; and

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vii. include the number of the telephone complaints line required by condition M7, an after hours contact phone number specific to the works undertaken outside the hours specified in condition L4.1, and the project website address.

c) If the works are subject to an approved community agreement, the notification must include a summary of the approved works.

Note: The requirements of this condition do not apply to emergency works as described in condition L4.4 of this licence.

L4.6 The licensee must coordinate all works outside of the standard construction hours with any neighbouring concurrent construction works that have the potential to impact the same noise sensitive receivers to ensure respite periods are achieved.

L4.7 Out of hours works for the installation of girders for bridges SB41 and SB42
The licensee may undertake works outside of the standard construction hours specified in condition L4.1, for up to five (5) nights per week between 1 October 2022 to 31 December 2022, to install girders for the bridges SB41 and SB42, within the area near Bellevue Street and Swamp Rd, St Peters ('the works').

The works are subject to the following conditions:

a) No out-of-hours-works are permitted to be undertaken above the noise levels specified in condition L4.3 at the same noise sensitive receivers impacted by the works for the three evenings and/or nights immediately preceding and following the works;

b) The licensee must undertake high noise impact works prior to 12:00am (midnight) where reasonable and feasible;

c) The licensee must offer alternative accommodation to noise sensitive receivers impacted by the works impacted by more than 25dB(A) above the NML for more than 2 consecutive evenings and/or nights of works;

d) The licensee must offer alternative accommodation to noise sensitive receivers impacted by the works impacted by more than 15dB(A) above the NML for more than 2 consecutive weekends of works;

e) The licensee must undertake the works, including the implementation of all noise management and mitigation measures, in accordance with the relevant noise and vibration impact assessments held in EPA Electronic File DOC22/815371;

f) While undertaking the works permitted under this condition, the licensee must not undertake any other out-of-hours works which have not been assessed in the relevant noise and vibration impact assessments held in EPA Electronic File DOC22/815371, excepting any works allowed by condition L4.3 or as approved by another condition of this licence.

g) The notification requirements under condition L4.5 apply to this condition.

L4.8 Under this condition, works and activities may be undertaken outside of standard construction hours specified in condition L4.1 and L4.2, but only if they are required in relation to one or more of the following:

a) carrying on those works and activities during standard construction hours would result in a high risk to construction personnel or public safety, based on a risk assessment carried out in accordance with AS/NZSISO 31000:2018 "Risk Management";

b) the Relevant Road Network Operator has advised the licensee in writing that carrying out the works and activities during standard construction hours would result in a high risk to road network operational performance;

c) a relevant utility service operator has advised the licensee in writing that carrying out the works and activities during standard construction hours would result in a high risk to the operation and integrity of the utility network;

d) the TfNSW Transport Management Centre (or other road authority) have refused to issue a road occupancy licence during standard construction hours; or e. Sydney Trains (or other rail authority) requires a rail

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possession for the activities to be performed outside of standard construction hours.

e) the Obstacle Limitation Surface (OLS) restrictions from Sydney Airport.

f) works for the construction of the twin arch bridges in Tempe, in accordance with the relevant noise and vibration impact assessments held in EPA Electronic File (DOC22/925032), due to the following safety, design and/or engineering requirements:

- i. Temperature requirements for welding to ensure design integrity
- ii. Wind speed requirements for lifting to ensure safety
- iii. Floor beam installation while under lifting tension

L4.9 In undertaking any works and activities outside of standard construction hours under condition the licensee must comply with the following:

a) Prepare a construction noise and vibration impact assessment in accordance with the Interim Construction Noise Guideline (DEC,2009) that is to include:

- i. a description of the proposed works and activities outside of standard construction hours;
- ii. predictions of LAeq (15 minute) dB noise levels at noise sensitive receivers from these works and activities, where noise levels are predicted to be greater than those permitted under condition L4.3; and
- iii. a monitoring plan to validate the noise predictions, based on monitoring at the boundary of representative sensitive receivers during noise generating activities that are representative of the works and activities, including during the period/s predicted to have the highest noise level impacts.

b) Undertake noise monitoring in accordance with the monitoring plan required by condition L4.9 a) (iii).

c) Only undertake activities between the hours of 6:00pm on Mondays, Tuesdays, Wednesdays, Thursdays, Fridays and 7:00am the following day (unless permitted by another condition of this licence).

d) Activities are not to be undertaken between the hours of 6:00pm on Saturdays, Sundays or Public Holidays and 7:00am the following day (unless permitted by another condition of this licence).

e) Ensure that works and activities do not result in noise levels exceeding those specified in condition L4.3 at the same noise sensitive receivers (unless specified in another condition of this licence) on more than:

- i. 2 consecutive evenings and/or nights at any time; and
- ii. 3 evenings and/or nights per week; and
- iii. 10 evenings and/or nights per month.

f) Undertake any high noise impact works before 12:00 am (midnight) where reasonable and feasible.

g) Where high noise impact activities are undertaken, the respite provisions as per the requirements of condition L4.2(c) do not apply provided that all High Noise Impact Activities and Works are undertaken prior to 12:00 am (midnight).

h) Where high noise impact activities are undertaken after 12:00 am (midnight), the respite provisions in condition L4.2(c) apply.

i) Upon request of an authorised officer, the licensee must provide within 5 business days:

- i. the construction noise and vibration impact assessment required by condition L4.9 (a)
- ii. noise monitoring results required by conditions L4.9 (b)
- iii. written evidence demonstrating the works are necessary and permitted under condition L4.8 and/or any other relevant information or records requested by the EPA.

j) the notification requirements under condition L4.5 apply to this condition.

L5 Potentially offensive odour

L5.1 No condition of this licence identifies a potentially offensive odour for the purposes of section 129 of the

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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 All activities occurring at the premises must be carried out in a manner that will minimise the emission of air pollution from the premises.

O3.2 The premises must be maintained in a condition which minimises the emission of air pollution from the premises.

O3.3 Trucks entering and leaving the premises that are carrying loads of dust generating materials must have their loads covered at all times, except during loading and unloading.

O4 Processes and management

O4.1 The licensee must implement all feasible and reasonable erosion and sediment controls as may be necessary throughout the life of construction works and activities to minimise sediment leaving the premises.

O4.2 The licensee must ensure erosion and sediment controls are designed (stability, location, type and size), constructed, operated and maintained in accordance with *Managing Urban Stormwater – Soils and Construction, Volume 2D, Main Road Construction* (DECC, 2008), to be read and used in conjunction with *Managing Urban Stormwater: Soils and Construction, Volume 1, 4th Edition* (Landcom, 2004).

Note: the licensee may consider guidance from other industry best practice documents if it can demonstrate

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the guidance will provide improved outcomes for the environment and meet the requirements of condition L1.1 of this licence.

- O4.3 The licensee must ensure that all erosion and sediment control measures installed on the premises are inspected and works undertaken to repair and/or maintain these controls as soon as reasonably practicable to ensure the proper and efficient operation of these controls. The licensee must record all such inspections including observations and works undertaken to repair and/or maintain erosion and sediment controls and provide these records to an authorised officer upon request.
- O4.4 The licensee must:
- ensure the design storage capacity of any sediment basin installed on the premises is reinstated within the design management period following the cessation of a rainfall event that causes runoff to occur on or from the premises; and
 - keep records of the available water and sediment storage capacities in each sediment basin and provide to an authorised officer upon request.
- O4.5 The licensee must ensure that sampling point(s) for water discharged from the sediment basin(s) are provided and maintained in an appropriate condition to permit:
- the clear identification of each sediment basin and discharge point;
 - the collection of representative samples of the water discharged from the sediment basin(s); and
 - access to the sampling point(s) at all times by an authorised officer of the EPA.
- O4.6 The licensee must ensure:
- all vehicular access points to the premises are designed, constructed, maintained and stabilised to ensure vehicles do not track materials onto public roads and to ensure all-weather entry and exit;
 - vehicle, motorised plant and equipment movements onto or off the premises do not cause the deposition of any material onto the surface of roads outside of the premises;
 - mud, splatter, dust and other material likely to fall from or be cast off the wheels, underside or body of any vehicle, trailer, motorised plant and equipment leaving the premises, is removed to the greatest extent practicable before it leaves the premises; and
 - road surfaces subject to any tracking of material by vehicles leaving the premises must be cleaned as required to ensure compliance with b) of this condition.
- O4.7 The licensee must prepare and implement an interim site environmental management plan or documentation as otherwise agreed with the NSW EPA accredited auditor to comply with the requirements of Interim Advice – WestConnex New M5, Sydney Gateway Interface Worksite, 14 January 2020. Prior to implementation, the licensee must submit the environmental documentation to an NSW EPA accredited auditor and the auditor must review and approve that it is appropriate. Following the review of the documentation, the licensee must provide a copy to the EPA as well as an Interim Audit Advice Statement to demonstrate that the documentation is considered appropriate.
- O4.8 For any work within Alexandra Canal, the licensee must adhere to the conditions outlined in Remediation Order Ref. 23004. Any work carried out within Alexandra Canal must be detailed in a written plan. The plan must be submitted to EPA for approval, as detailed in Remediation Order Ref. 23004.
- O4.9 The licensee is authorised to exhume waste from the Sydney Gateway Interface Worksite in St Peters Interchange during the construction of the Sydney Gateway Motorway in accordance with the application to exhume waste submitted to the EPA on 12 September 2022 (EPA Assessment table for the approval for exhumation of waste from landfill, ref: DOC22/764224-1).

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O5 Waste management

- O5.1 The licensee must assess, classify and manage any waste generated at the premises in accordance with the Waste Classification Guidelines Part 1; Classifying Waste, November 2014 and the Addendum to the Waste Classification Guidelines (2014) published in October 2016, prior to taking the waste off the licenced premises.
- O5.2 The licensee must prepare and submit a Construction Waste Management Plan (CWMP) to the EPA for approval prior to the commencement of licensed activities. The CWMP must include (at a minimum):
- the proposed quantities of each waste type generated on the premises for the duration of the project;
 - the anticipated waste classification of each type of waste generated at the premises for the duration of the project in accordance with the *Waste Classification Guidelines Part 1: Classifying waste* (EPA, 2014);
 - details of how and where the waste is anticipated to be reused, recycled, stockpiled or disposed of;
 - the proposed location(s) for all waste anticipated to be stockpiled at the premises, if different from source location;
 - details of proposed sampling and testing methods; and
 - the licensee must consider the guidance in Construction and demolition waste: a management toolkit (EPA, 2019) when preparing and implementing the CWMP.
- O5.3 The licensee must keep detailed records of waste generated, received or removed from the premises that includes (at a minimum):
- the addresses and facility/business names of destination location(s) for all waste generated and transported off the premises for any purpose (including recycling, reuse, processing, treatment and disposal);
 - written confirmation from each place of disposal that they can lawfully receive the types of waste proposed to be transported there;
 - the location for all waste stored at the premises, if different from source location;
 - details of all waste received on the premises or transported off the premises that is subject to a Resource Recovery Order and/or Exemption under the *Protection of the Environment Operations (Waste) Regulation 2014*, and demonstration that the waste meets the requirements of the Order and/or Exemption;
 - legible copies of all documents/records evidencing that all waste transported from the premises was taken to a facility/premises that lawfully accept that waste type; and
 - records of all compliance checks conducted under condition O5.5.
- O5.4 The CWMP must be implemented for the duration of licensed activities, and records must be updated as licensed activities progress, with the following information (at a minimum):
- comparisons showing the proposed waste quantities and waste types against the actual waste quantities and waste types; and
 - intended reuse, recycling or disposal locations against actual reuse, recycling and disposal locations.

Note: A copy of an up-to-date CWMP and records must be kept on the premises for the duration of the licence and provided to an EPA officer upon request.

- O5.5 a) The licensee must conduct compliance checks of the CWMP every 3 months while it is in effect (being while the licensed activities are occurring and not after) to ensure that all waste is being managed, transported, reused, recycled or disposed in a lawful manner. The compliance checks must take the form of:
- desktop investigations (such as contacting reuse, recycling or disposal facilities directly, reviewing waste disposal dockets, reviewing exemption requirements against particular loads of waste, reviewing environment protection licenses); and/or

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- ii. site inspections to reuse, recycling or disposal locations; and/or
- iii. any other method approved in writing by the EPA.
- b) The compliance checks must be recorded and provided to the EPA upon request; and
- c) In the event a compliance check indicates any waste has not been managed, transported, reused, recycled or disposed in a lawful manner, the licensee must notify the EPA within 7 days.

O5.6 The CWMP must be reviewed by a NSW EPA accredited Site Auditor prior to the commencement of bulk earthworks or within 3 months of the date of issuing of this licence, whichever comes first. Following the review of the CWMP, the licensee must:

- a) update the CWMP as recommended by the Site Auditor and provide a copy to the EPA; and
- b) submit to the EPA an Interim Audit Advice Statement to demonstrate the CWMP is considered appropriate.

O5.7 The licensee must not cause, permit or allow any waste, generated within or outside of the Sydney Gateway Road Project, to be received at the licensed premises, except:

- a) virgin excavated natural material; or
- b) as expressly permitted by a condition of this licence; or
- c) as permitted by a resource recovery order and resource recovery exemption under the Protection of the Environment Operations (Waste) Regulation 2014.

Note: for the purposes of condition O5.7 and condition O5.8 the "Sydney Gateway Road Project" refers to Stages 1 and 3 of the Sydney Gateway Project and the works described in section 1.1.2 of Sydney Gateway Road Project EIS (November 2019). For the purposes of this condition, the "Sydney Gateway Road Project" is not inclusive of the works associated with the Port Botany Rail Duplication.

O5.8 Waste suitable for reuse on-site that is excavated within the Sydney Gateway Road Project may be transported by an appropriately licenced transporter from one part of the Sydney Gateway Road Project to another part of the Sydney Gateway Road Project within the licenced premises via local roads using the most direct route possible.

Note: an appropriately licenced waste transporter includes but is not limited to a transporter licenced to transport waste under clause 48, Schedule 1 of the Protection of the Environment Operations Act 1997.

O5.9 The licensee must sample and test waste, including for PFAS, prior to reuse and disposal in accordance with the Waste Classification Guidelines Part 1; Classifying Waste, November 2014 and the Addendum to the Waste Classification Guidelines (2014) published October 2016.

O5.10 Prior to the transportation and disposal of any waste permitted under condition O5.8 which has been classified as special waste, liquid waste, hazardous waste or restricted solid waste, a NSW EPA accredited Site Auditor must certify in writing that:

- a) the proposed method, transport method and location of disposal is appropriate; and
- b) the waste is suitable for the intended reuse.

O5.11 For waste transported and disposed of in accordance with conditions O5.8 and O5.10 the licensee has a defence against pollution of land offences under section 142C of the Protection of the Environment Operations Act 1997.

O5.12 Leachate must only be disposed of by pumping to sewer in accordance with a Sydney Water trade waste agreement or removed from the premises by tanker and disposed of lawfully off-site.

O5.13 All water contained within any areas where waste is uncovered or exhumed must be managed as leachate.

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- O5.14 In the event that there is visible evidence of leachate seepage from caps or batters the licensee must ensure the leachate is contained and directed to the Leachate Treatment System.
- O5.15 Leachate must not be used in the truck wash facility at the premises.
- O5.16 Leachate must not be irrigated and/or used for dust control at the premises.
- O5.17 There must be no incineration or burning of any waste at the premises.
- O5.18 The licensee must notify the EPA:
- 5 business days prior to any planned works to the current leachate management system for Tempe Landfill; and
 - immediately upon becoming aware of the current leachate management system for Tempe Landfill being breached.
- Note: The leachate management system means the same as the definition in the Voluntary Remediation Proposal (Ref. 26050) and includes the cut-off wall, leachate drain, rising main and pump wells.
- O5.19 The licensee must prepare and implement a Remediation Action Plan if the current leachate management system for Tempe Landfill is modified or breached.
- O5.20 The licensee must prepare and implement a Remediation Action Plan should remediation be required to make land suitable for the final intended land use.
- O5.21 Prior to implementation, the licensee must submit any Remediation Action Plan required under condition O5.19 and O5.20 to the NSW EPA, and an Interim Audit Advice or a Section B Site Audit Statement from a NSW EPA accredited Site Auditor that certifies that the Remediation Action Plan is appropriate.
- Note: Any Remediation Action Plan must be developed in accordance with the objectives of the existing Voluntary Remediation Proposal (Ref. 26050) approved by the EPA.
- O5.22 Any PFAS contaminated material must be handled and disposed of in accordance with the PFAS NEMP (HEPA 2020).
- O5.23 Any PFAS contaminated material with a PFOS, PFHxS or PFOA content above 50mg/kg is stored or disposed of in accordance with the PFAS NEMP (HEPA 2020) to achieve zero environmental release of their PFAS content.
- O5.24 Any reuse of PFAS contaminated water must be consistent with the requirements set out in the PFAS NEMP (HEPA 2020).
- O5.25 The importation of biomass feed material to the premise is only permitted to allow for the Leachate Treatment Plant to be commissioned.
- O5.26 The licensee is authorised to exhume waste from the former Tempe Landfill in accordance with the EPA Approval to Exhume Waste – Tempe Landfill (11 September 2020, ref: DOC20/613828-4). The licensee must adhere to the work methods outlined in the application to exhume waste submitted to the EPA on 6 August 2020.

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- O5.27 The licensee must maximise the treatment volume of leachate in the leachate treatment plant so as to minimise the overtopping of the bentonite wall in accordance with any Remediation Action Plan prepared and submitted to the EPA in accordance with condition O5.21.

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

Pollutant	Units of measure	Frequency	Sampling Method
Carbon dioxide	percent by volume	Special Frequency 2	Special Method 1
Carbon monoxide	parts per million	Special Frequency 2	Special Method 1
Hydrogen Sulfide	parts per million	Special Frequency 2	Special Method 1
Methane	percent by volume	Special Frequency 2	Special Method 1
Oxygen (O2)	parts per million	Special Frequency 2	Special Method 1

M2.3 Water and/ or Land Monitoring Requirements

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POINT 2

Pollutant	Units of measure	Frequency	Sampling Method
Aluminium (dissolved)	micrograms per litre	Special Frequency 1	Grab sample
Ammonia	micrograms per litre	Special Frequency 1	Grab sample
Anthracene	micrograms per litre	Special Frequency 1	Grab sample
Arsenic (dissolved)	micrograms per litre	Special Frequency 1	Grab sample
Barium (dissolved)	micrograms per litre	Special Frequency 1	Grab sample
Benzo(a)pyrene	micrograms per litre	Special Frequency 1	Grab sample
Boron	micrograms per litre	Special Frequency 1	Grab sample
Cadmium (dissolved)	micrograms per litre	Special Frequency 1	Grab sample
Chromium (hexavalent)	micrograms per litre	Special Frequency 1	Grab sample
Chromium (trivalent)	micrograms per litre	Special Frequency 1	Grab sample
Cobalt (dissolved)	micrograms per litre	Special Frequency 1	Grab sample
Conductivity	microsiemens per centimetre	Special Frequency 1	Probe
Copper (dissolved)	micrograms per litre	Special Frequency 1	Grab sample
Ethyl benzene	micrograms per litre	Special Frequency 1	Grab sample
Fluoranthene	micrograms per litre	Special Frequency 1	Grab sample
Iron (dissolved)	micrograms per litre	Special Frequency 1	Grab sample
Lead (dissolved)	micrograms per litre	Special Frequency 1	Grab sample
Manganese (dissolved)	micrograms per litre	Special Frequency 1	Grab sample
Mercury (dissolved)	micrograms per litre	Special Frequency 1	Grab sample
m-Xylene	micrograms per litre	Special Frequency 1	Grab sample
Naphthalene	micrograms per litre	Special Frequency 1	Grab sample
Nickel (dissolved)	micrograms per litre	Special Frequency 1	Grab sample
Nitrate + nitrite (oxidised nitrogen)	micrograms per litre	Special Frequency 1	Grab sample
Nitrogen (total)	micrograms per litre	Special Frequency 1	Grab sample
o-Xylene	micrograms per litre	Special Frequency 1	Grab sample
Perfluorooctane sulphonate (PFOS)	micrograms per litre	Special Frequency 1	Grab sample
Perfluorooctanoic acid (PFOA)	micrograms per litre	Special Frequency 1	Grab sample
pH	pH	Special Frequency 1	Probe
Phenanthrene	micrograms per litre	Special Frequency 1	Grab sample
Phosphorus (total)	micrograms per litre	Special Frequency 1	Grab sample
p-Xylene	micrograms per litre	Special Frequency 1	Grab sample
TPH C10-C36 Fraction	micrograms per litre	Special Frequency 1	Grab sample
TPH C6-C9 Fraction	micrograms per litre	Special Frequency 1	Grab sample
Turbidity	nephelometric turbidity units	Special Frequency 1	Probe
Zinc (dissolved)	micrograms per litre	Special Frequency 1	Grab sample

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M2.4 For the purposes of condition M2.2 and M2.3:

a) 'Special Frequency 1' means:

i. Monthly.

b) 'Special Frequency 2' means:

i. Monthly while major earthworks and CMC piling are being undertaken within the former Tempe Landfill area; and

ii. Quarterly at all other times; and

iii. if methane gas levels are detected above 1%(v/v) methane in wells located outside the perimeter of the landfill should increase to daily unless advised otherwise by the EPA or a NSW EPA accredited site auditor; and

iv. in accordance with the methods outlined in the NSW EPA Environmental Guidelines: Solid Waste Landfills, Second edition, 2016.

c) 'Special Method 1' means in accordance with the methods outlined in the NSW EPA Contaminated Land Guidelines: Assessment and Management of Hazardous Ground Gases (2020).

M2.5 The licensee must undertake landfill gas monitoring, including surface gas monitoring and gas accumulation monitoring in enclosed structures, during project construction in accordance with the Sydney Gateway Road Project – Landfill Leachate, Gas and Odour Management Sub Plan as in force from time to time.

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 any tests are conducted.

M4 Environmental monitoring

M4.1 All noise and vibration monitoring for the purposes of determining compliance with the conditions of this licence must be undertaken by a competent person as defined in the special dictionary of this licence.

M4.2 All noise monitoring for the purposes of determining compliance with the conditions of this licence must consider and be generally undertaken in accordance with;

(a) Australian Standard AS 1055: 2018 Acoustics - Description and measurement of environmental noise; and

(b) the compliance monitoring guidance provided in the chapter 7 'Monitoring Performance' of the Noise Policy for Industry (EPA, 2017).

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M4.3 All vibration monitoring must be:

- a) undertaken in accordance with the technical guidance provided in the *Assessing Vibration: a technical guideline* (DEC, 2006); and
- b) assessed and reported against the acceptable values of human exposure to vibration set out in Tables 2.2 and 2.4 of this guideline.

M4.4 The licensee must undertake noise and vibration monitoring as directed by an authorised officer of the EPA.

M5 Weather monitoring

M5.1 The licensee must monitor and record temperature, humidity, wind direction, wind velocity and rainfall at either the project weather station, or through analysis of equivalent weather information obtained from the Australian Bureau of Meteorology. Monitoring must:

- a) be representative of each catchment;
- b) be undertaken prior to any works that may cause sediment to leave the premises; and
- c) continue to be operated until soil disturbance activities cease at the premises and the site has been stabilised.

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.

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.

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M7.3 The preceding two conditions do not apply until 2 weeks after the date of the issue of this licence.

M7.4 The licensee must ensure that the community complaints line and community notification required by conditions L4.5 and M7.2 are undertaken at least 14 calendar days prior to commencement of licensed activities and by:

- a) including on the project web site information on:
 - i. the nature, location and estimated construction time of the works;
 - ii. what works are expected to exceed *Interim Construction Noise Guideline* (DECC, 2009) noise management levels and the noise control measures to be implemented;
 - iii. how the public can make a complaint on the telephone complaints line and online;
 - iv. after hours contact telephone number for out of hours works permitted by conditions L4.3 and L4.6; and
 - v. how the complaints will be processed;
- b) posting publicly to social media platforms;
- c) public notices in local newspapers, including community language newspapers;
- d) clear signage at the boundary of each worksite that contains both the telephone complaints line number and the project website details; and
- e) having staff available to respond to complaints during hours when works are occurring.

Note: Additional ongoing notification will be undertaken by the licensee if new sensitive receivers are affected by noise, vibration or other construction impacts.

M7.5 Noise and Vibration Complaints

- a) The licensee must investigate noise and vibration complaints:
 - i. within two hours of the complaint being made; or
 - ii. in accordance with any documented complaint management agreement between the licensee and the complainant.
- b) The licensee must include an offer to the complainant to undertake attended noise or vibration monitoring at their premises if:
 - i. any investigation referred to in this condition identifies works or activities being undertaken on the licensed premises as the likely source of the complaint; and
 - ii. the licensee is not in possession of noise monitoring data representative of the complainants location and of the subject works and activities being undertaken on the licensed premises.
- c) If the occupant of the dwelling or management personnel of a noise sensitive receiver (other than a dwelling) accepts the offer of attended noise or vibration monitoring the licensee must undertake that attended monitoring:
 - i. as soon as practicable; or
 - ii. at a time agreed with the complainant.
- d) The licensee must, in respect of each complaint made to the telephone complaints line required by this condition, advise each complainant of the results of its investigation of their complaint and any proposed remedial action.

M8 Other monitoring and recording conditions

M8.1 The licensee must undertake monitoring, sampling, video recording and/or take photographs:

- a) if the EPA or licensee reasonably suspects that an event has occurred at the premises or in connection with the carrying out of the activities that has caused, is causing, is likely to cause or has the potential to cause material harm to the environment (whether the harm occurs on or off premises to which the licence applies);

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- b) as soon as practicable; and
- c) as directed by an authorised officer.

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 notification that the Annual Return is due.

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.

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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 they became aware of the incident.

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;
 - 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;
 - action taken by the licensee in relation to the event, including any follow-up contact with any complainants;
 - details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event; and
 - 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 Daily Complaints Reports
- The licensee must submit by 2:00 pm each business day a report to the EPA that provides details of all complaints received in relation to construction activities regulated by this licence on the telephone complaints line required by Condition M7 or through any other means.
 - The report must be provided in a format approved in writing by the EPA;
 - If the works that are the subject of complaint have been carried out under Conditions L4.2, L4.3 or L4.4 the report must include details of how the requirements of these conditions have been met.

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- d) The licensee is not required to submit a report:
 - i. for any reporting period during which no complaints have been received;
 - ii. that would otherwise be required to be submitted on a Saturday, Sunday or public holiday until not later than 2.00 pm on the next following weekday that is not a public holiday.

R4.2 Noise and Vibration Reports

- a) Upon request of an authorised officer, the licensee must submit a Preliminary Investigation Report to the EPA in respect of any noise or vibration monitoring undertaken in accordance with the requirements of Conditions M4.
- b) The Preliminary Investigation Report must be submitted to the EPA by 4:30 pm on the afternoon of the next working day following any noise or vibration monitoring.
- c) The Preliminary Investigation Report must include:
 - i. numerical and/or graphical representation of the noise and vibration monitoring results including both ambient noise levels and the level of noise from construction activities on the premises only; and
 - ii. the noise levels reported using the following noise descriptors: LAeq,T; LAF90,T; and LAFmax,T (T representing the 15 minute measurement period unless an alternative period is justified); and
 - iii. an assessment of measured construction noise levels against noise limits and noise management levels specified in this licence, requirements in a relevant planning approval for the subject activities (including Construction Noise and Vibration Management Plans and Impact Statements under the planning approval), relevant noise modelling and any relevant noise guidelines.

R4.3 In the event of any exceedance of the best achievable noise performance objectives identified in Construction Noise and Vibration Impact Statements prepared for the works, the licensee must:

- a) modify activities and implement all reasonable and feasible measures to prevent a recurrence of the exceedance; and
- b) submit a Follow-Up Investigation Report to the EPA within 5 business days of any noise or vibration monitoring having been undertaken (unless otherwise approved by the EPA). The Follow-Up Investigation Report must include:
 - i. confirmation of whether noise monitoring has been undertaken in accordance with the compliance monitoring guidance provided in the *Noise Policy for Industry* (EPA, 2017);
 - ii. confirmation of whether vibration monitoring has been undertaken in accordance with the guidance provided in *Assessing Vibration: a technical guideline* (DEC, 2006);
 - iii. details of the prevailing meteorological conditions during the period when the monitoring was undertaken;
 - iv. a map of each noise and vibration monitoring location in relation to the noise source and relevant receivers, including relevant distances;
 - v. numerical and graphical representation of the noise and vibration monitoring results;
 - vi. an analysis of the noise and vibration monitoring results;
 - vii. details of any remedial action taken in relation to the matter; and
 - viii. in cases not the subject of remedial action, detailed justification of the decision not to undertake remedial action."

R4.4 Notification of surface landfill gas methane exceedance

The licensee must notify the NSW EPA as soon as practicable and in any case within 24 hours if methane is detected at concentrations exceeding 500ppm during landfill gas surface monitoring outside of the premises.

R4.5 Notification of sub-surface landfill gas methane exceedance

The licensee must notify the NSW EPA as soon as practicable and in any case within 24 hours if methane is detected above concentrations of 1.0% (v/v) during landfill gas sub-surface monitoring. Within 14 days of this notification, the licensee must submit a plan to the NSW EPA for further investigation and/or remediation of

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the elevated gas levels.

R4.6 Notification of landfill gas accumulation in enclosed structures

The licensee must notify the NSW EPA as soon as practicable and in any case within 24 hours if methane is detected above concentrations above 500ppm during gas accumulation monitoring within buildings. Within 14 days of this notification, the licensee must submit a plan to the NSW EPA for further investigation and/or remediation of the elevated gas levels.

R4.7 The licensee must notify the NSW EPA as soon as practicable and in any case within 24 hours in the event that the licensee no longer has a trade waste agreement with Sydney Water or access to dispose of treated leachate to sewer. The licensee must also advise the NSW EPA of the actions it will take to dispose of leachate in compliance with the conditions of this licence. This advice must be provided to the NSW EPA in writing within 7 days of the licensee no longer having a trade waste agreement or access to dispose of treated leachate to sewer.

R4.8 In the event that sediment in Alexandra Canal is disturbed or mobilised outside of the environmental controls described in the licensee's Contaminated Aquatic Sediments in Alexandra Canal Management Sub Plan and as a result of the licensee's works and activities, the licensee must notify the NSW EPA as soon as practicable and in any case within 24 hours. Within 14 days of this notification, the licensee must submit a report to NSW EPA detailing the cause of disturbance or mobilisation of the sediments, immediate actions that were undertaken, controls measures that were in place and the actions put in place to prevent recurrence.

R4.9 Groundwater and Leachate Monitoring Reporting

a) Where monitoring has been undertaken in accordance with the licensee's Groundwater Monitoring Program and/or Landfill Leachate Monitoring Program, the licensee must prepare and submit a monitoring report to the EPA every 3 months and/or as requested by an authorised officer.

b) The report must include a comparison of the monitoring results to previous or baseline monitoring data (Coffey 2021) and trigger levels as detailed in the licensee's Groundwater Management Sub-Plan.

c) Where trigger levels are exceeded, the licensee must provide details of the nature and source of pollution and the actions put in place to prevent future exceedances.

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 Contact number for incidents and responsible employees

G2.1 The licensee must provide the EPA with, and maintain, up to date contact details to enable the EPA:

a) To contact either the licensee or a representative of the licensee who can respond at all times to incidents relating to the premises, and

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- b) To contact the licensee's senior employees or agents authorised at all times to;
 - i. speak on behalf of the licensee, and
 - ii. provide any information or document required under licence."

G2.2 The contact details required by condition G2.1 above must include:

- a) the full name and title of the authorised representatives and the scope of their respective authorisations; and
- b) the direct telephone number, mobile number, email address and postal address for contacting each authorised representative.

G3 Other general conditions

G3.1 Environmental Induction

- a) The licensee must ensure that before any construction work is undertaken, all personnel involved in undertaking that work receive environmental induction training.
- b) The induction training must:
 - i. clearly identify the location of all noise sensitive receivers likely to be affected by noise or vibration generated during the course of the work undertaken by those personnel; and
 - ii. highlight the licence requirements to minimise noise and vibration impacts on noise sensitive receivers.

8 Special Conditions

E1 Community Agreements

E1.1 Community Agreements

The licensee may undertake works outside of standard construction hours if agreement between the licensee and a substantial majority of noise sensitive receivers has been reached.

Note: This Condition applies to out-of-hours works that have not been approved by another condition of this licence.

E1.2 Any agreement(s) between the licensee and noise sensitive receivers referred to in condition E1.1 must be:

- a) submitted to the EPA for approval at least 21 calendar days prior to any works that are the subject of the agreement being undertaken;
- b) prepared in writing and a copy of the agreement(s) kept on the premises by the licensee for the duration of this licence; and
- c) be made available on the licensee's project website or another website approved in writing by the EPA for the duration of the agreement (personal details of residents must be omitted).

E1.3 Requirements for community agreements

Any community agreement to permit out of hours works (OOHW) to be undertaken outside of standard construction hours under condition L4.1 must:

- a) be prepared and implemented in accordance with the relevant sections of the *Interim Construction Noise Guidelines* (DEC 2009), the *Noise Policy for Industry* (EPA, 2017) and AS2436-2010: *Guide to noise and vibration control on construction, demolition and maintenance sites*;
- b) detail the following:
 - i. the actual works proposed;

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- ii. any expected impacts in clear, simple English based on noise modelling which represents the best achievable noise level from construction with all feasible and reasonable mitigation measures included in the modelling;
 - iii. the expected duration of the works;
 - iv. the mitigation and management measures to be implemented to seek to achieve the noise management levels, and the expected effectiveness of those measures
 - v. any expected benefits for receivers;
 - vi. any other concurrent OOHW that will be occurring; and
 - vii. any other OOHW that will be occurring on the nights preceding and following the proposed works or, if the proposed work precedes or follows a weekend period, any other OOHW that will be occurring on the weekend.
- c) demonstrate that the noise sensitive receivers party to the agreement understand the nature of the works and any predicted impacts; and
- d) Be kept for the duration of the agreement and made available to an EPA authorised officer on request.
- e) demonstrate, where the OOHW is predicted to go on longer than 28 calendar days, that the licensee has consulted the community in relation to re-engagement periods for the purpose of determining agreement from the community is maintained and continuing.

E1.4 The licensee must coordinate all OOHW subject to a community agreement with any neighbouring concurrent construction works that have the potential to impact the same noise sensitive receivers to ensure respite periods are achieved.

E1.5 Consultation and Engagement

In relation to consulting and engaging with noise sensitive receivers for a community agreement, the following applies:

- a) all noise sensitive receivers predicted by modelling to be impacted by levels greater than those defined in Condition L4.3 must be consulted on any proposed community agreement. This includes noise sensitive receivers that have declined to participate in previous agreements;
- b) all proposed agreements must include details for interpreting services for languages other than English where required;
- c) if a licensee is unable to contact a noise sensitive receiver after three attempts, including leaving "sorry I missed you" cards explaining the reason for the visit and requesting a return phone call, then the licensee will note that the receiver could not be contacted and the receiver will not be considered to have either agreed or disagreed; and
- d) records of the attempts to contact the receiver will be kept by the licensee.

E1.6 Agreement thresholds

The EPA will consider agreements reached between the licensee and a substantial majority of both:

- a) noise sensitive receivers predicted by the licensee to be impacted by noise levels exceeding those specified in Condition L4.3a) and L4.3b); and
- b) noise sensitive receivers predicted by the licensee to be impacted by noise levels above a highly noise affected level of 75dB(A).

Note: E1.6a) and E1.6b) are hereafter referred to as the community affected catchment. Community response and agreement rates should be reported against the total community affected catchment, and must be broken down into response and agreement rates based on sub-catchments that are delineated by affectation levels.

E1.7 Community Agreements attained by phone

Where a community agreement has been reached with noise sensitive receivers over the phone, the following

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applies:

- a) the phone script used to describe the proposed agreement (including information required under Condition E1.3) is to be provided to the EPA with the community agreement for approval;
- b) the script must include a description of the proposed works, the likely impacts and benefits for the community and a clear question requesting receiver agreement to the proposal;
- c) detailed records are to be maintained by the licensee of all community agreement phone conversations and must be maintained for the duration of the community agreement; and
- d) any noise sensitive receiver who requests a copy of the phone agreement must be supplied with one.

E1.8 Monitoring

A validation monitoring plan must be submitted to the EPA for approval as part of the community agreement documentation prior to any OOHW occurring.

E1.9 Validation monitoring must be undertaken for any works that are the subject of a community agreement and must:

- a) be performed by a competent person;
- b) be performed on at least the first 2 nights where OOHW will be undertaken;
- c) be performed on any other night where the nature of the works is likely to cause greater noise impacts than the first 2 nights;
- d) be representative of the impacts;
- e) be undertaken in accordance with the monitoring plan prepared under condition E1.8; and
- f) be recorded and provided to an EPA officer upon request.

E1.10 If validation monitoring undertaken under Condition E1.9 shows that noise levels are higher than those predicted by any noise modelling undertaken as part of the community agreement, work practices must be modified immediately so that measured noise levels do not exceed predicted levels.

Note: Where it has been determined that works cannot be modified to achieve the predicted noise levels, the agreement is to be considered null and void and in non-compliance with this licence condition.

E1.11 Ongoing community engagement and agreement

- a) For any community agreement longer than 21 calendar days to remain valid, the licensee must be able to demonstrate agreement from the community is maintained and continuing. To demonstrate agreement from the community is maintained and continuing the licensee must:
 - i. engage the community to determine if a substantial majority of noise sensitive receivers continue to support the agreement pursuant to the re-engagement period determined under condition E1.3(e);
 - ii. provide the EPA with a report within 7 calendar days of the end of each re-engagement period summarising the community response and comparing community agreement rates against previous community agreement rates; and
- b) Where the licensee is unable to demonstrate a substantial majority of agreement from the community is maintained and continuing:
 - i. the licensee must report immediately to the EPA; and
 - ii. the EPA may terminate the community agreement.

E2 Special Dictionary

E2.1 Special Dictionary

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Term	Meaning
Acoustic enclosure	can include an engineered and designed shed or enclosure, with airborne noise pathways minimised and treated where feasible and reasonable, endeavouring to achieve the Noise Management Levels in the Interim Construction Noise Guideline (DECC, 2009). Example treatments include noise curtains, acoustic barriers or fast operating doors to limit breakout noise from enclosures.
AS 2659	means Australian Standard AS 2659.1 – 1988 : Guide to the use of sound measuring equipment – Portable sound level meters
Competent Person - For the purpose of noise monitoring, must satisfy one or more of the following	<ul style="list-style-type: none"> • Have qualifications and/or experience sufficient to fulfil the requirements of 'member' grade of the Australian Acoustical Society • Undertake the duties of an acoustic consultant on behalf of a consultancy firm that is a member of the Association of Australasian Acoustical Consultants • Have a recognised tertiary qualification in a discipline pertinent to acoustics • Be able to demonstrate competence through professional experience and/or technical expertise to the satisfaction of the EPA.
Best Achievable Noise Performance Objectives	The construction noise level predicted at a receiver location after all feasible and reasonable noise mitigation measures have been incorporated into the prediction model and considered in deriving the predicted noise level.
Business day	excludes Saturdays, Sundays, public holidays and rostered days off (RDOs)
Construction Noise and Vibration Impact Assessment is a document or suite of documents that:	Describe the construction activities proposed; identifies the potential impacts of those activities on the community; the measures that will be used to reduce impacts on the affected community; how the community will be informed and engaged; and, how noise impacts will be monitored and enforced. They are often referred to as Noise and Vibration Management Plans, Construction Noise and Vibration Impact Statements, Construction Method Statements, Work Method Statements and the like.
Construction work	includes all construction work and activities, and all construction-related work and activities, undertaken on the premises.
Day	the period from 0700 and 1800 h (Monday to Saturday) and 0800 to 1800 h (Sundays and Public Holidays) as per the definition in the New South Wales Government's Industrial Noise Policy.
Essential utility services	means telephone, electricity, gas and water services.
Evening	the period from 1800 to 2200 h as per the definition in the New South Wales Government's Industrial Noise Policy.
Feasible Noise Abatement Measures	Means actions to reduce noise levels that are capable of being put into practice or of being engineered and are practical to build given project constraints such as safety and maintenance requirements
Haulage and delivery of spoil and material	Including materials handling, tunnel logistics, tunnelling and station fit out material transportation, concrete deliveries, rail and track component deliveries, and truck movements that are essential to be undertaken outside of standard construction hours outlined in Condition L3.1 to facilitate 24/7 tunnelling activities and activities within an acoustic enclosure

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High noise impact activities and works	Means construction works which are: <ul style="list-style-type: none"> • Identified as particularly annoying in section 4.5 of the ICNG; • Works identified as 'Highly Noise Intensive Works' in a planning approval for the activities in this licence; and/or • Any other activity identified by the EPA, and advised to the licensee, following an assessment of the character of the noise emitted by the activity based on the Noise Policy for Industry, Fact Sheet C considerations (EPA, 2017).
INP	means the New South Wales Industrial Noise Policy published by the EPA in January 2000.
Impulsive noise	has the same meaning as in section 4.2 of the INP.
Interim Construction Noise Guidelines (ICNG)	Interim Construction Noise Guidelines (DECC, July 2009).
Intermittent noise	has the same meaning as in section 4.2 of the INP.
In Writing	documents are to be submitted electronically unless otherwise requested by EPA
Leachate	The liquid that passes through, or is released by, waste in the former Tempe Landfill. It arises from the inherent moisture content of the waste and from rainwater (and sometimes groundwater) percolating through or contacting the waste mass. Leachate may contain high levels of dissolved solids, ammonia, organic matter, and sometimes metals and other pollutants.
Light Vehicle	Road registered motor vehicles with a Gross Vehicle Mass (GVM) of 4.5 tonnes or less
Month	full calendar month
Noise Management Level (NML)	has the same meaning as "Airborne Noise Management Levels" in the Interim Construction Noise Guideline (DECC 2009)
Night	the period from 2200 to 0700 h (Monday to Saturday) and 2200 to 0800 h (Sundays and Public Holidays) as per the definition in the New South Wales Government's Industrial Noise Policy.
Noise sensitive receiver	Land uses that are sensitive to noise, such as residential areas, churches, schools and recreation areas.
Operating hours	means hours during which any construction-related works or activities are being undertaken, including outside of standard construction hours
Out of hours	means hours outside those prescribed by condition L3.1.
PFAS	Any per- and poly-fluoroalkyl substances
PFAS NEMP (HEPA 2020)	PFAS National Environmental Management Plan Version 2.0, Heads of EPA Australia and New Zealand 2020
Practicable and reasonable	has the same meaning as 'reasonable and feasible' in the INP.
Rating Background Level (RBL)	the same meaning as in the Interim Construction Noise Guideline (DECC 2009)

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Reasonable noise abatement measures	Means those feasible noise abatement actions that are considered reasonable in the circumstances, based on a judgement that the overall noise benefits outweigh the overall adverse social economic and environmental effects, including the cost of measure. To make such a judgement, consideration is to be given to noise level impacts, noise mitigation benefits, cost effectiveness of noise mitigation and community views.
Residence	A lawful and permanent structure erected in a land-use zone that permits residential use (or for which existing use rights under the EP&A Act apply) where a person/s permanently reside and is not, nor associated with, a commercial undertaking such as caretakers quarters, hotel, motel, transient holiday accommodation or caravan park.
Resource Recovery Order and/or Exemption	As described under Part 9, Clause 93 of the Protection of the Environment Operations (Waste) Regulation 2014
Soil and water management works	include all measures to control erosion and sediment such as sediment filters, drains, ponds, basins, stormwater run on and runoff controls, site stabilisation works, temporary water crossings and vehicular access controls.
Tonal noise	the same meaning as in section 4.2 of the INP.
Waste suitable for reuse	Defined as excavated waste from the Sydney Gateway Road Project that is determined to be suitable for on-site reuse under a Remediation Action Plan prepared in accordance with condition O5.21 or according to the CWMP and waste classification process as required under condition O5.1 and O5.2.

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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

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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> .

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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
Wellhead	Has the same meaning as in Schedule 1 to the Protection of the Environment Operations (General) Regulation 2021.

Ms Aleksandra Young

Environment Protection Authority

(By Delegation)

Date of this edition: 09-June-2021

End Notes

2	Licence varied by notice	1611102 issued on 01-Sep-2021
3	Licence varied by notice	1615215 issued on 22-Dec-2021
4	Licence varied by notice	1620749 issued on 25-Jul-2022
5	Licence varied by notice	1621977 issued on 26-Sep-2022
6	Licence varied by notice	1623494 issued on 10-Nov-2022
7	Licence varied by notice	1624486 issued on 14-Nov-2022