

Environment Protection Licence



Licence - 20079

Licence Details

Number:	20079
Anniversary Date:	02-March

Licensee

JOHN HOLLAND PTY LTD

GPO BOX 508

SYDNEY NSW 2001

Premises

SYDNEY OPERA HOUSE - VEHICLE AND PEDESTRIAN SAFETY PROJECT

SYDNEY NSW 2000

Scheduled Activity

Extractive Activities

Fee Based Activity

Scale

Land-based extractive activity

> 50000-100000 T extracted, processed or stored

Region

Metropolitan Infrastructure

Level 7, 79 George Street

PARRAMATTA NSW 2150

Phone: (02) 9995 6804

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PO Box 668 PARRAMATTA

NSW 2124

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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); 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).

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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
GPO BOX 508
SYDNEY NSW 2001

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 development work listed below at the premises listed in A2:

Preparation for scheduled activities - namely preparation for land-based extractive activities.

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.

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	> 50000 - 100000 T extracted, processed or stored

A2 Premises or plant to which this licence applies

A2.1 The licence applies to the following premises:

Premises Details
SYDNEY OPERA HOUSE - VEHICLE AND PEDESTRIAN SAFETY PROJECT
SYDNEY
NSW 2000
SYDNEY OPERA HOUSE VEHICLE AND PEDESTRIAN SAFETY PROJECT, BEING THE PREMISES DEFINED IN CONDITION A2.2

A2.2 The premises is defined as follows:

The area marked with green lines and bounded by the red line described as 'EPL PREMISE AREA' on Drawing JH-005-C 'EPL Premise Boundary Map' dated 13/4/2012 and located in EPA file LIC11/745.

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

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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 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.

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.

Water and land

EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
1		Discharge to waters	Water treatment plant discharge pipe to Bennelong Drain. Beneath site accommodation, shown on Fig. 1, Sydney Opera House Vehicle Access and Pedestrian Safety Project Water Quality Management Plan (SOHVAPS-PLN-WQMP-008) Rev 1 20/6/12. EPA file LIC11/745-02
2	Water quality monitoring		Tap on water treatment plant holding tank. Beneath site accommodation, shown on Fig. 1, Sydney Opera House Vehicle Access and Pedestrian Safety Project Water Quality Management Plan (SOHVAPS-PLN-WQMP-008) Rev 1 20/6/12. EPA file LIC11/745-02

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.

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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
Copper	micrograms per litre	-	10	-	-
Iron	micrograms per litre	-	800	-	-
Lead	micrograms per litre	-	22	-	-
Manganese	micrograms per litre	-	2000	-	-
Oil and Grease	milligrams per litre	-	-	-	10
pH	pH	-	-	-	6.5 - 8.5
Total suspended solids	milligrams per litre	-	-	-	50

- L2.5 Any water discharged from Point 1, as specified in Condition P1.2 of this licence, must not contain any floating material or cause discolouration of receiving waters.
- L2.6 If the licensee wishes to use turbidity (NTU) in place of TSS to determine compliance with Condition L2.4 the licensee must develop a statistical correlation which identifies the relationship between NTU and TSS for water quality in order to determine the NTU equivalent of monitored TSS before its use. To determine correlation between NTU and TSS the US Army Corp of Engineers guidelines "Improved Methods for Correlating Turbidity and Suspended Solids for Monitoring" is recommended.
- L2.7 The licensee must provide the EPA with a copy of the statistical correlation assessment methodology and results before using NTU in place of TSS.

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- L2.8 The licensee must develop and implement a method to enable the ongoing verification of the relationship between NTU and TSS.
- L2.9 The licensee must provide the EPA with any amendments the licensee makes to the statistical correlation as a result of the ongoing verification required by Condition L2.8 before using the revised statistical correlation.
- L2.10 Any discharge of water to Bennelong Drain may only occur when the tide level is greater than 0.45m, as measured at Fort Denison.

L3 Noise limits

- L3.1 Noise generated from construction works at the premises must not exceed the levels in the table below, except as expressly permitted by another condition in this licence.

Locality	Noise goals dB(A)	Noise goals dB(A)	Noise limits dB(A)	Noise limits dB(A)
	Project Standard Hours LAeq (15 minute)	Outside Project Standard Hours Level 1 LAeq (15 minute)	Outside Project Standard Hours Level 2 LAeq (15 minute)	Outside Project Standard Hours Levels 1 and 2 LA1 (1 minute)
All residences	65	50	50	60

- L3.2 For the purpose of Condition L3.1;

- Project Standard Hours is defined as the period from 7am to 6pm Monday to Friday and 8am to 5pm Saturday.
- Outside Project Standard Hours Level 1 is defined as the period from 6pm to 10pm Monday to Friday; 5pm to 10pm Saturday and 8am to 5pm Sunday.
- Outside Project Standard Hours Level 2 is defined as the period from 10pm Monday to Friday to 7am Tuesday to Friday and 8am Saturday; 10pm Saturday to 8am Sunday and 5pm Sunday to 7am Monday.

- L3.3 To determine compliance:

- a) with the LAeq(15 minute) noise limits in condition L3.1, the noise measurement equipment must be located:
- approximately on the property boundary, where any residence is situated 30 metres or less from the property boundary closest to the premises; or
 - within 30 metres of a residence façade, but not closer than 3m, where any residence 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 the façade of a residence.
- c) with the noise limits in condition L3.1, the noise measurement equipment must be located:
- at the most affected point at a location where there is no residence at the location; or
 - at the most affected point within an area at a location prescribed by conditions L3.3(a) or L3.3(b).

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- L3.4 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 L3.3(a) and L3.3(b); and/or
 - at a point other than the most affected point at a location.
- L3.5 (1) The licensee may undertake construction work outside the Project Standard Hours defined in condition 3.2 if that work does not cause –
- (a) an airborne noise level, measured at the boundary of the most noise affected residential receiver that exceeds the levels in the table in L3.1 above,
- (b) an LAeq (15 minute) ground-borne noise level, measured in a sleeping area of the most affected residence, of greater than 40 dBA between the hours of 6.00 pm and 10.00 pm,
- (c) an LAeq (15 minute) ground-borne noise level, measured in a sleeping area of the most affected residence, of greater than 35 dBA between the hours of 10.00 pm and 7.00 am,
- (d) continuous or impulsive vibration values, measured at the most affected residence, greater than those for human exposure to vibration, set out for residences in Table 2.2 in the technical guideline 'Environmental Noise Management Assessing Vibration' published by the Department of Environment and Conservation in February 2006, and
- (e) intermittent vibration values, measured at the most affected residence, greater than those for human exposure to vibration, set out for residences in Table 2.4 in the technical guideline 'Environmental Noise Management Assessing Vibration' published by the Department of Environment and Conservation in February 2006.
- (2) For the purposes of Condition L3.5 (1b) and (1c), where it can be demonstrated that direct measurement of ground-borne noise from the premises is impractical, the EPA may accept alternative means of determining compliance. For example see Chapter 11 of the NSW Industrial Noise Policy.
- L3.6 The following activities may be undertaken outside of Project Standard Hours:
- (a) The delivery of materials which is required outside these hours as requested by the Police or other authorities for safety reasons; and
- (b) Emergency work to avoid the loss of lives, property and/or to prevent environmental harm.
- L3.7 The licensee must notify noise sensitive receivers likely to be affected by noise or vibration from work undertaken outside the Project Standard Hours defined in Condition L3.2 of those works not less than 5 days and not more than 14 days before the work commences and must -
- (i) make that notification by letterbox drop, by posting clearly on the licensee's project website home page if such a website exists, and by email to those occupants of noise sensitive receivers whom have elected to be notified by email,
 - (ii) outline the reasons why the work is required to be undertaken out of hours, with a particular emphasis on those works proposed to be undertaken during evening and night times,
 - (iii) outline the nature and duration of the work to be undertaken,
 - (iv) outline the noise mitigation measures, including respite times to be implemented in respect of the work,
 - (v) include a diagram showing the location of the work in relation to public roads and local landmarks or geographical features,

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- (vi) include a list of machinery to be used during the work,
- (vii) invite community comment on the work,
- (viii) highlight the number of the telephone complaints line required by condition M5.1 as the 24 hour contact for complaints and additional information and community comment/ feedback on the work, and
- (ix) provide contact details in community languages relevant to the locality.

Activities undertaken in compliance with Condition L3.6 are not subject to the above notification requirements.

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 licensee must ensure that all activities subject to this licence are carried on by such practicable means as may be necessary:

- (a) to minimise dust emissions on the premises, and
- (b) to prevent dust emissions from the premises.

O4 Processes and management

O4.1 Prior to undertaking any construction or excavation work the licensee must implement soil erosion and sediment control measures to prevent pollution of waters.

O4.2 All soil erosion and sediment control measures, and any other water pollution control measures, installed on the premises must be inspected to ensure the integrity of the control measures:

- (a) Within 24 hours of the cessation of a rainfall event causing run off to occur from the premises;
- (b) Daily, during periods of extended rainfall; and
- (c) Weekly, during dry weather periods.

The licensee must record all such inspections including observations and works undertaken to repair

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and/or maintain erosion and sediment controls.

O5 Other operating conditions

- O5.1 All work subject to this Licence must be undertaken in a manner that will minimise the emission of noise and vibration from the premises.
- O5.2 The licensee must ensure that all feasible and reasonable noise and vibration mitigation and management measures are implemented during all work authorised by this licence, in accordance with the Interim Construction Noise Guideline (DECCW, 2009).
- O5.3 A Water Reuse Risk Assessment must be prepared by an appropriately qualified person if any water treated by the water treatment plant is proposed to be reused on the site. The risk assessment must be prepared prior to first reuse and ensure that the proposed use of the water is suitable with regard to residual levels of pollutants and human exposure.
In particular the risk assessment must consider:
- (a) all possible water reuse options on site;
 - (b) the potential for iron precipitates;
 - (c) risks associated with water leaving the site and entering the harbour; and
 - (d) the impact of spray drift on workers and the public.

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:

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M2.2 Water and/ or Land Monitoring Requirements

POINT 2

Pollutant	Units of measure	Frequency	Sampling Method
Copper	micrograms per litre	Fortnightly	Grab sample
Iron	micrograms per litre	Fortnightly	Grab sample
Lead	micrograms per litre	Fortnightly	Grab sample
Manganese	micrograms per litre	Fortnightly	Grab sample
Oil and Grease	milligrams per litre	Fortnightly	Grab sample
pH	pH	Fortnightly	Grab sample
Total suspended solids	milligrams per litre	Fortnightly	Grab sample

M2.3 The monitoring results collected in accordance with condition M2.1 for Point 2 can be used to determine compliance with the limits in condition L2.4 for Point 1.

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.

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.

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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 :
- 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.
- M5.4 In response to any noise or vibration complaint made by any person/s or bodies other than the EPA, the licensee must:
- a) investigate the complaint within 2 hours of the complaint being received or within the timeframe agreed with the complainant; and
 - b) offer to attend the complainant's premises to undertake attended noise or vibration monitoring at the complainant's premises as soon as is practical, or at a time agreed with the complainant.
- M5.5 The licensee must, in respect of each complaint made to the telephone complaints line required by condition M5.1, advise each complainant of the results of its investigation of their complaint and any proposed remedial action.
- M5.6 In response to any complaint referred by the EPA to the licensee, the licensee must respond to the referred complaint in a manner and timeframe specified by the EPA.

M6 Other monitoring and recording conditions

- M6.1 For all works undertaken outside the Project Standard Hours defined in Condition L3.2, with the exception of those undertaken in accordance with Condition L3.6(b), the licensee must:
- (a) undertake attended noise and vibration monitoring at representative stages of the activity or work to confirm whether the noise and vibration predictions in its noise and vibration assessment were accurate; and
 - (b) provide a copy of the results of any noise monitoring undertaken in accordance with this condition within 24 hours of a request by any authorised officer of the EPA.
- M6.2 Vibration monitoring must be carried out in accordance with the guidance provided in the Environmental Noise Management Assessing Vibration: A Technical Guideline, published by the Department of Environment and Conservation, February 2006.
- M6.3 Noise monitoring must be carried out in accordance with Australian Standard AS 2659.1 – 1998: Guide to the use of sound measuring equipment – Portable sound level meters, and the compliance monitoring guidance provided in the NSW Industrial Noise Policy.
- M6.4 The licensee must undertake noise and vibration monitoring as directed by an authorised officer of the

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EPA.

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.

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 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.

R1.8 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.

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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.

R4 Other reporting conditions

R4.1 Where representative noise and vibration monitoring has been undertaken in accordance with Condition

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M6.1, a noise and vibration compliance assessment report must be submitted to the Manager Infrastructure and Biodiversity Regulation, Environment Protection Authority, PO Box 668 Parramatta NSW 2124 on the 14th day of the following month. The assessment must be prepared by a suitably qualified and experienced acoustical consultant and include:

- a) an assessment of compliance with noise limits/ goals presented in Condition L3.1; and
- b) an outline of any management actions taken within the monitoring period to address any exceedences of the limits/ goals contained in Condition L3.1.

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 ensure that two duly authorised representatives of the licensee are available for contact by the EPA at all times.
 - (1) The licensee must provide the EPA with up to date details of natural persons authorised to represent the licensee in respect of –
 - (a) answering general enquiries made by the EPA or its authorised officers,
 - (b) speaking on behalf of the licensee,
 - (c) signing on behalf of the licensee, and
 - (d) acting as the licensee's 'out of hours' contact with authority to direct the licensee's employees, agents and contractors to undertake such action as may be necessary to ensure that construction work complies with this licence.
 - (2) The details required by condition G2.1(1) must include –
 - (a) the full name and title of each authorised representative and the scope of their authority to represent the licensee, and
 - (b) the direct landline telephone number, mobile telephone number, pager number, fax number, email address and postal address of each authorised representative.
- G2.2 The licensee is to inform the EPA in writing of the appointment of any subsequent contact persons, or changes to the person's contact details as soon as practicable and in any event within fourteen days of the appointment or change.

G3 Signage

- G3.1 Each monitoring and discharge point must be clearly marked by a sign that indicates the EPA point

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identification number.

G4 Other general conditions

- G4.1 The licensee must notify potentially affected noise sensitive receivers, a minimum of 14 days prior to the commencement of licensed activities, of the following:
- (a) details of the project;
 - (b) nature and location of the works;
 - (c) estimated construction time;
 - (d) what works are expected to be noisy;
 - (e) noise control measures; and
 - (f) include the number of the telephone complaints line required by Condition M5.1, an after hours contact phone number specific to the works undertaken outside the Standard Project Hours specified in Condition L3.2 and the project website address, if such a website is in operation.
- G4.2 The licensee must ensure that the community notification required by Condition G4.1:
- a) occurs at least twice and at least 7 days apart;
 - b) occurs by general advertisement and public notices in newspapers that are regularly circulated within the communities likely to be affected by noise or other impacts of the licensed activities.

Consideration should also be given to the notification of affected noise receivers via letterbox drop where deemed appropriate.

8 Special Conditions

E1 Project Water Treatment Plant

- E1.1 A Water Quality Management Plan must be prepared for operation of the water treatment plant and be submitted to the Manager Infrastructure and Biodiversity Regulation, Environment Protection Authority, PO Box 668 Parramatta NSW 2124. Commissioning of the water treatment plant may only occur after written notification is received by the licensee from the Environment Protection Authority confirming that commissioning may begin. This plan must include:
- (a) A site plan on which the point where the water treatment plant will discharge into the Bennelong Drain is clearly marked;
 - (b) Daily field indicator monitoring program, with trigger points for further testing or other management action;
 - (c) Procedures for fortnightly monitoring of ongoing water treatment plant operation;
 - (d) Proposed limits for discharge of copper, manganese, iron and lead, developed based on:
 - (i) the capabilities and performance of an appropriate water treatment plant
 - (ii) information on dilution and options to increase dilution
 - (iii) information based on achieving the ANZECC (2000) trigger values at the edge of a defined mixing zone
 - (iv) application of the toxicant 'decision tree' contained in ANZECC 2000
 - (e) Details of a commissioning stage water monitoring program to commence on the first day of operation of the water treatment plant, and continue for a minimum period of ten days. The program must:
 - (i) Specify the sampling frequency
 - (ii) Specify the sampling methodology

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- (iii) Provide field indicator trigger values for each of the pollutants specified in Condition E1.1(d) during the commissioning stage
- (iv) Detail measures to be undertaken if field indicators or laboratory analysis indicates that water is not suitable for discharge
- (f) Measures to be employed in the event that water is not of acceptable quality for discharge, or the system malfunctions
- (g) Information regarding the dosing regime of the water treatment plant, with particular regard to minimising and controlling the concentration of chemicals required

Note: The requirements of this condition have been satisfied with the submission of a satisfactory Water Quality Management Plan (Titled: 'Sydney Opera House Vehicle Access and Pedestrian Safety Project Water Quality Management Plan (SOHVAPS-PLN-WQMP-008),' Revision 1, dated 20 June 2012, located on EPA file LIC11/745-02).

- E1.2 Within 30 days of commissioning of the water treatment plant (WTP) the licensee must submit to the Manager Infrastructure and Biodiversity Regulation, Environment Protection Authority, PO Box 668 Parramatta NSW 2124, a WTP commissioning report ("the report"). The report must include but not be limited to details about plant performance with reference to pollutant limits specified in Condition L2.4 and any other requirements set out in the Water Quality Management Plan required by Condition E1.1.

E2 Out of Hours Works

- E2.1 The following works may be undertaken outside the Project Standard Hours specified in conditions L3.1 and L3.2 of this licence:

Concreting works for construction of the vehicle concourse structure that supports the Monumental Steps

Works may only be undertaken subject to the following:

- (a) Works may be undertaken for one night, between the hours of 10pm and 8am;
- (b) The Licensee must provide written notification to the EPA upon commencement of works, to the following email address info@environment.nsw.gov.au.

E3 Special Dictionary

- | | | |
|------|--------------------|--|
| E3.1 | Ground-borne noise | As defined in the NSW Interim Construction Noise Guideline (Department of Environment and Climate Change 2009) |
| | Noise | Sound pressure levels |
| | Noise goals | Noise levels that the licensee must aim to comply with during works. The noise goals are based on noise levels which the proponent has predicted can be met for the project. Any change in work practices that may change the predicted levels must be assessed and the new predicted levels notified to the EPA, prior to those works commencing. |
| | Noise limits | As defined in the NSW Industrial Noise Policy (Environment Protection Authority 2000) |
| | Vibration | Human comfort vibration to be measured in accordance with Assessing Vibration - A Technical Guideline (Department of Environment and Conservation 2006) |

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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

Ms Jacinta Hanemann

Environment Protection Authority

(By Delegation)

Date of this edition: 02-March-2012

End Notes

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|---|--------------------------|-------------------------------|
| 2 | Licence varied by notice | 1504855 issued on 13-Mar-2012 |
| 3 | Licence varied by notice | 1505716 issued on 03-May-2012 |
| 4 | Licence varied by notice | 1506853 issued on 20-Jun-2012 |
| 5 | Licence varied by notice | 1507027 issued on 28-Jun-2012 |