

# Environment Protection Licence

Licence - 12858

**Licence Details**

Number:	12858
Anniversary Date:	01-May
Review Due Date:	01-May-2013

**Licensee**

MCCONNELL DOWELL CONSTRUCTORS (AUST) PTY LTD  
 PO BOX 708  
 ALEXANDRIA NSW 1435

**Licence Type**

Premises

**Premises**

Desalinated water pumping station at Kurnell, and desalinated water pipeline  
 Various streets from Kurnell to Erskineville, including the pipeline route across Botany Bay  
 KURNELL NSW 2231

**Scheduled Activity**

Dredging Works

**Fee Based Activity**

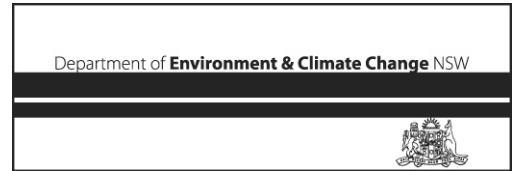
Fee Based Activity	Scale
Water-based extractive activity	> 500000 - 2000000 m3 obtained or moved
Miscellaneous Licensed Discharge to Waters (at any time)	> 100 - 1000 ML discharged

**Region**

Metropolitan  
 Level 3, NSW Govt Offices, 84 Crown Street  
 WOLLONGONG NSW 2500  
 Phone: 02 4224 4100  
 Fax: 02 4224 4110  
 PO Box 513 WOLLONGONG EAST  
 NSW 2520

# Environment Protection Licence

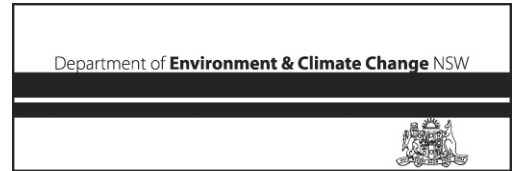
Licence - 12858



<b>INFORMATION ABOUT THIS LICENCE</b> .....	<b>4</b>
Dictionary .....	4
Responsibilities of licensee.....	4
Variation of licence conditions .....	4
Duration of licence.....	4
Licence review.....	4
Fees and annual return to be sent to the EPA .....	4
Transfer of licence .....	5
Public register and access to monitoring data.....	5
<b>1 ADMINISTRATIVE CONDITIONS</b> .....	<b>5</b>
A1 What the licence authorises and regulates .....	5
A2 Premises to which this licence applies .....	6
A3 Other activities .....	7
A4 Information supplied to the EPA .....	7
<b>2 DISCHARGES TO AIR AND WATER AND APPLICATIONS TO LAND</b> .....	<b>7</b>
P1 Location of monitoring/discharge points and areas.....	7
<b>3 LIMIT CONDITIONS</b> .....	<b>13</b>
L1 Pollution of waters.....	13
L2 Load limits.....	14
L3 Concentration limits.....	14
L4 Volume and mass limits .....	15
L5 Waste.....	16
L6 Noise Limits .....	16
<b>4 OPERATING CONDITIONS</b> .....	<b>17</b>
O1 Activities must be carried out in a competent manner.....	17
O2 Maintenance of plant and equipment.....	17
O3 Hours of operation.....	17
O4 Noise and vibration control .....	18
O5 Water pollution control (Botany Bay Sector) .....	19
O6 Waste Control .....	19
<b>5 MONITORING AND RECORDING CONDITIONS</b> .....	<b>20</b>
M1 Monitoring records.....	20
M2 Requirement to monitor concentration of pollutants discharged.....	20
M3 Testing methods - concentration limits .....	23
M4 Recording of pollution complaints.....	23
M5 Telephone complaints line.....	23
M6 Requirement to monitor volume or mass .....	24
M7 Requirements to monitor noise and vibration.....	25
<b>6 REPORTING CONDITIONS</b> .....	<b>25</b>

# Environment Protection Licence

Licence - 12858



R1	Annual return documents .....	25
R2	Notification of environmental harm .....	27
R3	Written report .....	27
R4	Water quality reporting (Kurnell Sector and Urban Sydney Sector) .....	28
R5	Water quality reporting (Botany Bay Sector).....	28
R6	Daily complaints reporting .....	29
R7	Noise reporting.....	29
<b>GENERAL CONDITIONS.....</b>		<b>30</b>
G1	Copy of licence kept at the premises .....	30
<b>POLLUTION STUDIES AND REDUCTION PROGRAMS .....</b>		<b>31</b>
<b>SPECIAL CONDITIONS .....</b>		<b>31</b>
<b>DICTIONARY.....</b>		<b>31</b>
	General Dictionary.....	31
	Special Dictionary.....	33



## Information about this licence

### Dictionary

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

### Responsibilities of licensee

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

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

### Variation of licence conditions

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

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

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

### Duration of licence

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

### Licence review

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

### Fees and annual return to be sent to the EPA

For each licence fee period you must pay:

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

The EPA publication "A Guide to Licensing" contains information about how to calculate your licence fees.

# Environment Protection Licence

Licence - 12858



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:

<b>BOVIS LEND LEASE PTY LIMITED</b>
<b>LOCKED BAG 3001</b>
<b>ERSKINEVILLE NSW 2043</b>
<b>MCCONNELL DOWELL CONSTRUCTORS (AUST) PTY LTD</b>
<b>PO BOX 708</b>
<b>ALEXANDRIA NSW 1435</b>

subject to the conditions which follow.

## 1 Administrative conditions

### A1 What the licence authorises and regulates

A1.1 Not applicable.

# Environment Protection Licence

Licence - 12858



- 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
Dredging Works

Fee Based Activity	Scale
Water-based extractive activity	> 500000 - 2000000 m3 obtained or moved
Miscellaneous Licensed Discharge to Waters (at any time)	> 100 - 1000 ML discharged

- A1.3 Not applicable.

## A2 Premises to which this licence applies

- A2.1 The licence applies to the following premises:

Premises Details
<b>Desalinated water pumping station at Kurnell, and desalinated water pipeline</b>
<b>Various streets from Kurnell to Erskineville, including the pipeline route across Botany Bay</b>
<b>KURNELL</b>
<b>NSW</b>
<b>2231</b>

# Environment Protection Licence

Licence - 12858



## Premises Details

The premises includes the pumping station at the desalination plant site, Kurnell (excluding the desalination plant site outside of the pumping station works) and the pipeline route from Kurnell to Erskineville including the pipeline across Botany Bay, as illustrated on figures submitted as Attachment B to licence application dated 16 January 2008, and figure (untitled) submitted to DECC on 20 November 2008.

### A3 Other activities

A3.1 Not applicable.

### A4 Information supplied to the EPA

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

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

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

## 2 Discharges to air and water and applications to land

### P1 Location of monitoring/discharge points and areas

P1.1 Not applicable.

P1.2 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.

P1.3 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*

<b>EPA identification no.</b>	<b>Type of monitoring point</b>	<b>Type of discharge point</b>	<b>Description of location</b>
1	Discharge to waters Effluent quality monitoring Volume monitoring	Discharge to waters Effluent quality monitoring Volume monitoring	Kurnell stormwater channel; discharge from the pipeline excavation at Kurnell for the pump station at the desalination plant site; labelled Discharge Point 1 on Figure 1 submitted to the EPA with the licence application dated 16 January 2008.
2	Discharge to waters Effluent quality monitoring Volume monitoring	Discharge to waters Effluent quality monitoring Volume monitoring	Captain Cook Dv launch pit; discharge of groundwater from the pipeline excavation at Kurnell to a stormwater pit on Captain Cook Drive; labelled Discharge Point 2 on Figure 1 submitted to the EPA with the licence application dated 16 January 2008.
3	Discharge to waters Effluent quality monitoring Volume monitoring	Discharge to waters Effluent quality monitoring Volume monitoring	Tasman St receival pit; discharge from the excavation at Kurnell into a stormwater pipe on Tasman St prior to discharge into channel; labelled Discharge Point 3 on Figure 1 submitted to the EPA with the licence application dated 16 January 2008.
4	Discharge to waters Effluent quality monitoring Volume monitoring	Discharge to waters Effluent quality monitoring Volume monitoring	Silver Beach launch pit; discharge from the excavation at Kurnell via a point on north east corner of site compound; and labelled Discharge Point 4 on Drawing No. WMTEMP-10-802 attached to the licence variation submitted to the EPA on 18 March 2009.
5	Discharge to waters Effluent quality monitoring Volume monitoring	Discharge to waters Effluent quality monitoring Volume monitoring	Kogarah Golf Course; discharge of groundwater from the pipeline excavation at Arncliffe to an absorption pit; labelled Discharge Point 5 on Figure 2 submitted to the EPA with the licence application dated 16 January 2008.

# Environment Protection Licence

Licence - 12858



EPA identification no.	Type of monitoring point	Type of discharge point	Description of location
6	Discharge to waters Effluent quality monitoring Volume monitoring	Discharge to waters Effluent quality monitoring Volume monitoring	Cooks River south launch pit; discharge of groundwater from the excavation at Arncliffe to stormwater pipe at Marsh Street underpass; labelled Discharge Point 6 on Figure 2 submitted to the EPA with the licence application dated 16 January 2008.
7	Discharge to waters Effluent quality monitoring Volume monitoring	Discharge to waters Effluent quality monitoring Volume monitoring	Cooks River North receival pit; discharge of groundwater from the excavation to a stormwater pit at Tempe Reserve carpark; labelled Discharge Point 7 on Figure 2 submitted to the EPA with the licence application dated 16 January 2008. stormwater pit
8	Discharge to waters Effluent quality monitoring Volume monitoring	Discharge to waters Effluent quality monitoring Volume monitoring	Tempe Reserve stormwater pit; discharge of groundwater from the excavation at Tempe to a stormwater pit at Tempe Reserve; labelled Discharge Point 8 on Figure 2 submitted to the EPA with the licence application dated 16 January 2008.
9	Discharge to waters Effluent quality monitoring Volume monitoring	Discharge to waters Effluent quality monitoring Volume monitoring	Bentonite wall; discharge of groundwater from the excavation at Tempe Tip to a stormwater pit; labelled Discharge Point 9 on Figure 2 submitted to the EPA with the licence application dated 16 January 2008.
10	Discharge to waters Effluent quality monitoring Volume monitoring	Discharge to waters Effluent quality monitoring Volume monitoring	Swamp Road/Freight Rail South receival pit; discharge of groundwater from the excavation at Tempe to a stormwater pit on Swamp Road; labelled Discharge Point 10 on Figure 2 submitted to the EPA with the licence application dated 16 January 2008.

# Environment Protection Licence

Licence - 12858



EPA identification no.	Type of monitoring point	Type of discharge point	Description of location
11	Discharge to waters Effluent quality monitoring Volume monitoring	Discharge to waters Effluent quality monitoring Volume monitoring	Freight Rail North Launch Pit; discharge of groundwater from the excavation at St Peters to a stormwater pit at the Goods Yard; labelled Discharge Point 11 on Figure 2 submitted to the EPA with the licence application dated 16 January 2008.
12	Discharge to waters Effluent quality monitoring Volume monitoring	Discharge to waters Effluent quality monitoring Volume monitoring	Canal Road launch pit; discharge of groundwater from the excavation at St Peters to a stormwater pit on Canal Road; labelled Discharge Point 12 on Figure 2 submitted to the EPA with the licence application dated 16 January 2008.
13	Discharge to waters Effluent quality monitoring Volume monitoring	Discharge to waters Effluent quality monitoring Volume monitoring	Alexandria Landfill - receival pit; discharge of groundwater from the excavation at St Peters to a stormwater pit in Tipfast; labelled Discharge Point 13 on Figure 2 submitted to the EPA with the licence application dated 16 January 2008.
14	Discharge to waters Effluent quality monitoring Volume monitoring	Discharge to waters Effluent quality monitoring Volume monitoring	Kyeemagh Compound; stormwater pit located in the south-eastern portion of the Cooks Park carpark, Kyeemagh; labelled "Discharge Point 17" on the attachment to the licence variation application submitted to the EPA dated 13 August 2008.
15	Discharge to waters Effluent quality monitoring Volume monitoring	Discharge to waters Effluent quality monitoring Volume monitoring	MCS Compound; Stormwater connection located in the south-west of the Maritime Container Services (MCS) Yard, St Peters; labelled "Discharge Point 19" on the attachment to the licence variation application submitted to the EPA dated 13 August 2008.

# Environment Protection Licence

Licence - 12858



EPA identification no.	Type of monitoring point	Type of discharge point	Description of location
16	Discharge to waters Effluent quality monitoring	Discharge to waters Effluent quality monitoring	Euston Campbell Compound; discharge of groundwater from Euston Campbell compound to stormwater pit located on Euston Road, labelled Discharge Point 20 in Figure 1 attached to the licence variation application submitted to the EPA on 7 October 2008.
17	Discharge to waters Effluent quality monitoring	Discharge to waters Effluent quality monitoring	MetroMix Compound; discharge of groundwater from MetroMix Compound to the stormwater pit located at the southern end of Euston Road; labelled Point 21 in Figure 2 attached to the licence variation application submitted to the EPA on 7 October 2008.
18	Discharge to waters Effluent quality monitoring	Discharge to waters Effluent quality monitoring	Sydney Park Compound; discharge of groundwater from Sydney Park Compound to the stormwater pit located at the southern end of Euston Road; labelled Point 22 in Figure 3 attached to licence variation application submitted to the EPA on 7 October 2008.
19	Receiving waters Surface water quality monitoring		Cooks River, Kyeemagh Boat Ramp Wharf; labelled Point A on Attachment A to letter submitted to EPA dated 21 April 2008.
20	Receiving waters Surface water quality monitoring		Alexandria Canal Pedestrian Bridge, Tempe; labelled Point B on Attachment A to letter submitted to EPA dated 21 April 2008.
21	Ground water quality monitoring		Borehole DSW11, Kurnell; labelled Point C on Attachment A to letter submitted to EPA dated 21 April 2008.
22	Receiving waters Surface water quality monitoring		Botany Bay North; labelled Discharge Point 18 on Figure 1 submitted to the EPA with the licence variation application dated 13 August 2008.

# Environment Protection Licence

Licence - 12858



EPA identification no.	Type of monitoring point	Type of discharge point	Description of location
23	Receiving waters Surface water quality monitoring		Alexandra Canal North; adjacent to Ricketty Street Bridge; labelled Point 23 in Figure 4 of attachment to licence variation application submitted to EPA on 7 October 2008.
24	Background water quality monitoring		Botany Bay, Kurnell adjacent to the Caltex Jetty, Silver Beach
25	Background water quality monitoring		Botany Bay, adjacent to the Towra Point Aquatic Reserve
26	Background water quality monitoring		Botany Bay, Kyeemagh immediately north of the entrance to the Cooks River.
27	Background water quality monitoring		Middle of Botany Bay, end of Sydney International Airport north-south runway.
28	Nearfield water quality monitoring		Monitoring station in Botany Bay at northern end of Kyeemagh berth pocket, outside silt curtain (Kyeemagh nearfield north).
29	Nearfield water quality monitoring		Monitoring station in Botany Bay at southern end of Kyeemagh berth pocket, outside silt curtain (Kyeemagh nearfield south).
30	Nearfield water quality monitoring		Monitoring station in Botany Bay outside the silt curtain surrounding the Northern Borrow Pit Disposal Area.
31	Nearfield water quality monitoring		Monitoring station in Botany Bay outside the silt curtain surrounding the Southern Borrow Pit disposal area.
32	Nearfield water quality monitoring		Mobile monitoring station in Botany Bay attached to Dredger #1 during dredging for the Botany Bay crossing.
33	Nearfield water quality monitoring		Mobile monitoring station in Botany Bay attached to Dredger #2 during dredging for the Botany Bay crossing.
34	Nearfield water quality monitoring		Mobile monitoring station in Botany Bay attached to Discharge Barge #1 during dredging for the Kyeemagh Berth Pocket and Botany Bay crossing.

# Environment Protection Licence

Licence - 12858



EPA identification no.	Type of monitoring point	Type of discharge point	Description of location
35	Nearfield water quality monitoring		Mobile monitoring station in Botany Bay attached to Discharge Barge #2 during dredging for the Botany Bay crossing.
36	Receiving waters Surface water quality monitoring		Silver Beach Boat Ramp, Kurnell; labelled Point 36 on Drawing No. WMTEMP-10-802 attached to the licence variation application submitted to the EPA on 18 March 2009.
37	Nearfield water quality monitoring		Mobile monitoring station in Botany Bay located outside the secondary silt curtain (when installed) surrounding Discharge Barge 1 and/or Discharge Barge 2 for the Botany Bay Crossing.

- Notes:
- (1) Monitoring buoys located at Points 24, 28, 29, 30 and 31 will be moved once construction and dredging associated with these locations is complete.
  - (2) The mobile monitoring stations referred to in Points 32, 33, 34 and 35 will be attached to two dredgers and two discharge barges moving within the Botany Bay Sector between Lady Robinsons Beach, Kyeemagh and Silver Beach, Kurnell (defined by the following coordinates) along the route of the desalination pipeline, as illustrated in the figure (untitled) submitted to the EPA on 20 November 2008.

Point	Easting	Northing
Lady Robinsons Beach, Kyeemagh	330380	6241694
Silver Beach, Kurnell	333771	6236137

- (3) The mobile monitoring station referred to in Point 37 will be located within 10 metres of mobile secondary silt curtain(s) installed around the two discharge barge(s). Point 37 will be used as the near field water quality monitoring point for the discharge barge(s) (i.e. instead of Points 34 and 35) only while the secondary silt curtain(s) are installed within the Botany Bay sector for the Botany Bay crossing.

## 3 Limit conditions

### L1 Pollution of waters

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

# Environment Protection Licence

Licence - 12858



## L2 Load limits

L2.1 Not applicable.

L2.2 Not applicable.

## L3 Concentration limits

L3.1 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.

L3.2 Where a pH quality limit is specified in the table, the specified percentage of samples must be within the specified ranges.

L3.3 To avoid any doubt, this condition does not authorise the pollution of waters by any pollutant other than those specified in the table\.

### *Water and Land*

POINTS 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18

Pollutant	Units of Measure	50 percentile concentration limit	90 percentile concentration limit	3DGM concentration limit	100 percentile Concentration Limit
Oil and Grease	milligrams per litre				10
pH	pH				6.5 - 8.5
Total suspended solids	milligrams per litre				50
Nitrogen (ammonia)	milligrams per litre				<3

L3.4 The licensee must not discharge water from a point referred to in Condition P1.3 if any oil and grease is visible in the water at that point.

L3.5 Turbidity Limits (Botany Bay Sector)

- (1) Turbidity levels outside the silt curtains prescribed in Condition O5.4 or adjacent to dredging operations must not exceed the background turbidity by more than an equivalent suspended solids concentration of 50mg/L.
- (2) The licensee must establish a turbidity criterion equivalent to a suspended solids concentration of 50 mg/L for each operational dredging area in Botany Bay, to enable instantaneous measurement of suspended solids concentrations.
- (3) The licensee must submit to the EPA on a monthly basis a report that verifies the turbidity criterion referred to in Condition L3.5(2) for each operational dredging area.



- (4) The turbidity limits to be applied for the purpose of meeting Condition O5.5 are defined in Table 1 of this condition.

**Table 1 – Turbidity limits for dredging works in the Botany Bay Sector.**

Monitoring Point	Reference Point	Turbidity Limit
Point 28 (Kyeemagh Berth Pocket north)	Point 26 <sup>^</sup> (Kyeemagh)	Point 26 NTU + 50mg/L TSS
Point 29 (Kyeemagh Berth Pocket south)	Point 26 <sup>^</sup> (Kyeemagh)	Point 26 NTU + 50mg/L TSS
Point 30 (Northern Borrow Pit Disposal Area)	Point 26 <sup>^</sup> (Kyeemagh)	Point 26 NTU + 50mg/L TSS
Point 31 (Southern Borrow Pit Disposal Area)	Point 27 <sup>+</sup> (Mid Bay)	Point 27 NTU + 50mg/L TSS
Point 32 (Botany Bay crossing)	Point 27* (Mid Bay)	Point 27 NTU + 50mg/L TSS
Point 33 (Botany Bay crossing)	Point 27* (Mid Bay)	Point 27 NTU + 50mg/L TSS
Point 34 (Botany Bay crossing)	Point 27* (Mid Bay)	Point 27 NTU + 50mg/L TSS
Point 35 (Botany Bay crossing)	Point 27* (Mid Bay)	Point 27 NTU + 50mg/L TSS
Point 37 (Botany Bay crossing)	Point 27* (Mid Bay)	Point 27 NTU + 50mg/L TSS

- Note: <sup>^</sup> Data collected at Point 27 (Mid Bay) may be used as a reference for Points 28, 29 and 30.  
<sup>+</sup> Data collected at Point 26 (Kyeemagh) maybe used as a reference for Point 31.  
<sup>\*</sup> Data collected at Point 24 (Silver Beach) or Point 25 (Towra Point) may be used as a reference point for the southern extent of the Botany Bay crossing.

#### **L4 Volume and mass limits**

L4.1 For each discharge point or utilisation area specified below (by a point number), the volume/mass of:

- (a) liquids discharged to water; or;
- (b) solids or liquids applied to the area;

must not exceed the volume/mass limit specified for that discharge point or area.

# Environment Protection Licence

Licence - 12858



Point	Unit of measure	Volume/Mass Limit
1	kilolitres per day	2419
2	kilolitres per day	2419
3	kilolitres per day	1503
4	kilolitres per day	2419
5	kilolitres per day	2419
6	kilolitres per day	54
7	kilolitres per day	54
8	kilolitres per day	1503
9	kilolitres per day	1503
10	kilolitres per day	864
11	kilolitres per day	54
12	kilolitres per day	300
13	kilolitres per day	54
14	kilolitres per day	54
15	kilolitres per day	54
16	kilolitres per day	54
17	kilolitres per day	54
18	kilolitres per day	54

**L5 Waste**

L5.1 Not applicable.

**L6 Noise Limits**

L6.1 All dredging works shall be undertaken such that the noise contribution from those works to the background acoustic environment must not exceed the limits specified below at the locations indicated and during the periods specified.



Location	Noise Goal dB(A) LA <sub>10</sub> (15minute)		
	Day 7:00am – 6:00pm	Evening 6:00pm – 10:00pm	Night 10:00pm – 7:00am
Dampier Street Kurnell	46	47	39
The Grand Parade, Kyeemagh	50	53	47

L6.2 The noise emission goals identified in this licence apply under all meteorological conditions except:

- (a) during rain and wind speeds (at 10 metre height) greater than 3m/s; and
- (b) under “non-significant weather conditions”.

Note: Field meteorological indicators for non-significant weather conditions are described in the NSW Industrial Noise Policy, Chapter 5 and Appendix E in relation to wind and temperature inversions.

## 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 Hours of operation

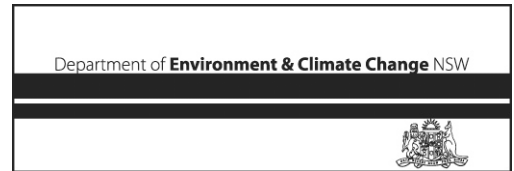
O3.1 Botany Bay Sector

All dredging works in the Botany Bay Sector within 1 kilometre of residences must:

- (a) be undertaken only between the hours of 7:00 am and 6:00 pm Monday to Friday;
- (b) be undertaken only between the hours of 8:00 am and 1:00pm Saturday; and
- (c) not be undertaken on any Sunday or Public Holidays.

# Environment Protection Licence

Licence - 12858



Dredging works in the Botany Bay Sector more than 1 kilometre of residences may be undertaken 24 hours a day, seven (7) days a week.

Note: The Special Conditions towards the end of this licence include any approved exceptions to this condition.

## O3.2 Works permitted outside normal construction hours (Botany Bay Sector)

The following activities may be carried out outside the hours permitted by Condition O3.1:

- (a) activities or work that cause noise emissions that are not audible at any residential premises;
- (b) activities directed by Police or other relevant authority for safety reasons; and/or
- (c) emergency work to avoid loss of life, damage to property and/or environmental harm.

## O3.3 Work Generating High Noise Impact

Any work carried out in the Botany Bay Sector that generates noise with impulsive, intermittent, low frequency or tonal characteristics must:

- (a) Be undertaken only between 8:00am and 12:00pm Monday to Saturday;
- (b) Be undertaken only between 2:00pm and 5:00pm Monday to Friday; and
- (c) Not be undertaken on any Sunday or Public Holiday.

## O4 Noise and vibration control

O4.1 All dredging works must be carried out in a manner that will minimise the emission of noise and vibration from the premises.

### O4.2 Feasible and reasonable noise mitigation

The licensee must implement all feasible and reasonable measures to minimise noise and vibration associated with the dredging works, including but not limited to:

- (a) using least noisy construction methods, vehicles, plant and equipment;
- (b) positioning and orienting noisy plant and equipment so as to minimise noise impacts on noise sensitive receivers;
- (c) positioning items of noisy plant and equipment as far apart as is practicable from each other;
- (d) minimising noisy activities undertaken outside the hours prescribed in Condition O3.1 by adopting alternative construction methods;
- (e) carrying out above ground loading and unloading activities as far away as is practicable from noise sensitive receivers;
- (f) designing each work site to minimise the need for truck reversing movements;
- (g) taking all practicable steps to avoid or minimise movements that would activate movement or reversing alarms; and
- (h) preventing vehicle, plant and equipment queuing and idling outside the hours of construction prescribed in Condition O3.1.



## O5 Water pollution control (Botany Bay Sector)

- O5.1 This licence permits the licensee to conduct dredging operations using a cutter suction dredge only.
- O5.2 The licensee must use a subaqueous diffuser head for the placement of dredged spoil on the bed of Botany Bay.
- O5.3 Potential acid sulfate sediments dredged from the bed of Botany Bay must not be exposed to air.

Dredged potential acid sulphate sediments must be piped to the permanent disposal area in the borrow pit (north) as a slurry and placed onto the bed of the disposal area using a subaqueous diffuser.

- O5.4 The licensee must install, operate and maintain silt curtains in the following locations:
- (a) around the Kyeemagh Berth Pocket at Lady Robinsons Beach;
  - (b) around the temporary storage area for dredged sandy material in the southern borrow pit adjacent to Sydney International Airport's North South Runway;
  - (c) around the permanent storage area for dredged clay material in the northern borrow pit adjacent to Sydney International Airport's North South Runway; and
  - (d) around the discharge barges during subaqueous backfilling of the pipeline trench and subaqueous placement of dredged spoil from barges.

The silt curtains must be retained after the completion of all works which are likely to cause pollution of waters until the turbidity of the water within the silt curtains return to background levels of turbidity in waters immediately outside the silt curtains.

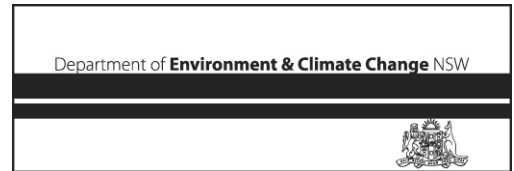
- O5.5 In the event that:
- (a) turbidity levels (12 hour moving average) in Botany Bay outside the silt curtains prescribed in Condition O5.4 exceed the limits specified in Condition L3.5; or
  - (b) a surface plume of visually turbid water develops in Botany Bay outside the silt curtains prescribed in Condition O5.4 or adjacent to dredging operations for a period of more than three hours;

the licensee must immediately investigate the cause of the increased turbidity, implement actions to reduce turbidity levels and document any actions taken.

Should the surface plume of visually turbid water referred to in paragraph (b) of this Condition remain for a further three hours, the licensee must immediately notify the EPA on the EPA's Environment Line service on 131 555.

## O6 Waste Control

- O6.1 The licensee must assess, classify and manage any wastes generated in association with dredging works in accordance with the Department of Environment and Climate Change Waste



## *Classification Guidelines Part 1: Classifying Waste.*

O6.2 If waste is transported from the premises, the licensee must ensure that the waste is transported:

- (a) By a waste transporter authorised to transport such waste; and
- (b) To a place that can lawfully accept that waste.

## **5 Monitoring and recording conditions**

### **M1 Monitoring records**

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

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

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

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

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

### **M2 Requirement to monitor concentration of pollutants discharged**

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

# Environment Protection Licence

Licence - 12858



## Water and Land

### POINTS 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18

Pollutant	Units of measure	Frequency	Sampling Method
Arsenic	milligrams per litre	Special Frequency 1	Grab sample
Cadmium	milligrams per litre	Special Frequency 1	Grab sample
Colour	None	Daily during any discharge	Inspection
Copper	milligrams per litre	Special Frequency 1	Grab sample
Iron	milligrams per litre	Special Frequency 1	Grab sample
Lead	milligrams per litre	Special Frequency 1	Grab sample
Nickel	milligrams per litre	Special Frequency 1	Grab sample
Nitrogen (ammonia)	milligrams per litre	Daily during any discharge	In situ
Nitrogen (ammonia)	milligrams per litre	Special Frequency 1	Grab sample
Odour	None	Daily during any discharge	Inspection
Oil and Grease	milligrams per litre	Special Frequency 2	Special Method 1
Polycyclic aromatic hydrocarbons	milligrams per litre	Special Frequency 1	Grab sample
Total petroleum hydrocarbons	milligrams per litre	Special Frequency 1	Grab sample
Total suspended solids	milligrams per litre	Special Frequency 1	Grab sample
Turbidity	nephelometric turbidity units	Daily during any discharge	In situ
Zinc	milligrams per litre	Special Frequency 1	Grab sample
pH	pH	Daily during any discharge	In situ

### POINTS 19,20,21,22,23

Pollutant	Units of measure	Frequency	Sampling Method
Arsenic	milligrams per litre	Special Frequency 1	Grab sample
Cadmium	milligrams per litre	Special Frequency 1	Grab sample
Copper	milligrams per litre	Special Frequency 1	Grab sample
Iron	milligrams per litre	Special Frequency 1	Grab sample
Lead	milligrams per litre	Special Frequency 1	Grab sample
Nickel	milligrams per litre	Special Frequency 1	Grab sample
Nitrogen (ammonia)	milligrams per litre	Special Frequency 1	Grab sample
Oil and Grease	milligrams per litre	Special Frequency 1	Grab sample
Polycyclic aromatic hydrocarbons	milligrams per litre	Special Frequency 1	Grab sample
Total petroleum hydrocarbons	milligrams per litre	Special Frequency 1	Grab sample
Total suspended solids	milligrams per litre	Special Frequency 1	Grab sample
Turbidity	nephelometric turbidity units	Special Frequency 1	Grab sample
Zinc	milligrams per litre	Special Frequency 1	Grab sample

# Environment Protection Licence

Licence - 12858



## POINTS 24,25,26,27

Pollutant	Units of measure	Frequency	Sampling Method
Total suspended solids	milligrams per litre	Special Frequency 4	Grab sample
Turbidity	nephelometric turbidity units	Continuous	Probe

## POINTS 28,29,30,31,32,33,34,35

Pollutant	Units of measure	Frequency	Sampling Method
Total suspended solids	milligrams per litre	Special Frequency 4	Grab sample
Turbidity	nephelometric turbidity units	Special Frequency 3	Probe

## POINT 36

Pollutant	Units of measure	Frequency	Sampling Method
Arsenic	milligrams per litre	Special Frequency 1	Grab sample
Cadmium	milligrams per litre	Special Frequency 1	Grab sample
Copper	milligrams per litre	Special Frequency 1	Grab sample
Iron	milligrams per litre	Special Frequency 1	Grab sample
Lead	milligrams per litre	Special Frequency 1	Grab sample
Nickel	milligrams per litre	Special Frequency 1	Grab sample
Nitrogen (ammonia)	milligrams per litre	Special Frequency 1	Grab sample
Oil and Grease	milligrams per litre	Special Frequency 1	Grab sample
Polycyclic aromatic hydrocarbons	milligrams per litre	Special Frequency 1	Grab sample
Total petroleum hydrocarbons	milligrams per litre	Special Frequency 1	Grab sample
Total suspended solids	milligrams per litre	Special Frequency 1	Grab sample
Turbidity	nephelometric turbidity units	Special Frequency 1	Grab sample
Zinc	milligrams per litre	Special Frequency 1	Grab sample

## POINT 37

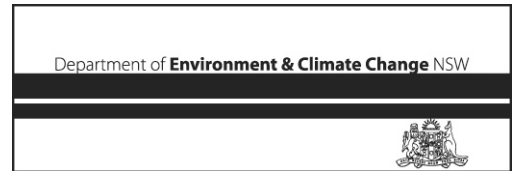
Pollutant	Units of measure	Frequency	Sampling Method
Total suspended solids	milligrams per litre	Special Frequency 4	Grab sample
Turbidity	nephelometric turbidity units	Special Frequency 3	Continuously

For the purpose of the table above, the following definitions apply:

- a. Special Frequency 1 means, if discharge occurs, the collection of samples at fortnightly intervals.

# Environment Protection Licence

Licence - 12858



- b. Special Frequency 2 means, if discharge occurs, monitoring by visual assessment on a daily basis, in addition to the collection of samples at fortnightly intervals.
- c. Special Method 1 means the visual assessment by inspection, in addition to the collection of grab samples.
- d. Special Frequency 3 means continuous monitoring whilst dredge(s) and discharge barge(s) are operating in the construction area.
- e. Special Frequency 4 means fortnightly grab sampling when turbidity exceeds 10 NTU and whilst the dredge(s) and discharge barge(s) are operating in the construction area.

## **M3 Testing methods - concentration limits**

M3.1 Not applicable.

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

## **M4 Recording of pollution complaints**

M4.1 The licensee must keep a legible record of all complaints made to the licensee or any employee or agent of the licensee in relation to pollution arising from any activity to which this licence applies.

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

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

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

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

## **M5 Telephone complaints line**

M5.1 The licensee must operate during its operating hours a telephone complaints line for the purpose of receiving any complaints from members of the public in relation to activities conducted at the

# Environment Protection Licence



Licence - 12858

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

M5.2 The licensee must notify the public of the complaints line telephone number and the fact that it is a complaints line so that the impacted community knows how to make a complaint.

M5.3 Conditions M5.1 and M5.2 do not apply until 3 months after:

- (a) the date of the issue of this licence or
- (b) if this licence is a replacement licence within the meaning of the Protection of the Environment Operations (Savings and Transitional) Regulation 1998, the date on which a copy of the licence was served on the licensee under clause 10 of that regulation.

## M6 Requirement to monitor volume or mass

M6.1 For each discharge point or utilisation area specified below, the licensee must monitor:

- (a) the volume of liquids discharged to water or applied to the area;
- (b) the mass of solids applied to the area;
- (c) the mass of pollutants emitted to the air;

at the frequency and using the method and units of measure, specified below.

POINTS 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18

Frequency	Unit Of Measure	Sampling Method
Daily during any discharge	kilolitres per day	Estimate



## M7 Requirements to monitor noise and vibration

M7.1 The licensee must undertake monthly noise monitoring at the locations prescribed in Condition L6.1 for the duration of the dredging works authorised by this licence carried out within one kilometre of any residential premises.

All monitoring must be carried out in accordance with:

- (a) Australia Standard AS 2659.1 – 1988: Guide to the use of sound measuring equipment – Portable sound level meters; and
- (b) compliance monitoring guidance provided in the NSW Industrial Noise Policy.

M7.2 The licensee must investigate noise and vibration complaints from the community associated with dredging works:

- (a) within two hours of receiving the complaint; or
- (b) in accordance with any prior complaint management agreement the licensee may have made with the complainant.

M7.3 Any investigation referred to in Condition M7.2 must include an express offer to the complainant to undertake attended noise and/or monitoring at their premises, should the complaint not be resolved immediately. If the occupant of a residence or the management of a noise sensitive receiver other than a residence accepts the offer of attended noise or vibration monitoring, the licensee must undertake that attended monitoring:

- (a) as soon as practicable; or
- (b) at a time agreed with the complainant.

The licensee must advise the complainant of the results of its investigation of their complaint and any proposed remedial action.

## 6 Reporting conditions

### R1 Annual return documents

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

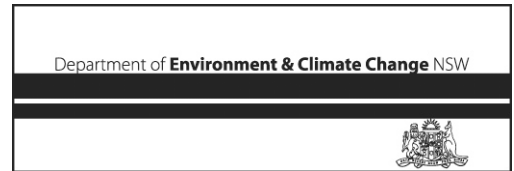
R1.1 The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:

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

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

# Environment Protection Licence

Licence - 12858



## Period covered by Annual Return

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

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

R1.3 Where this licence is transferred from the licensee to a new licensee:  
(a) the transferring licensee must prepare an Annual Return for the period commencing on the first day of the reporting period and ending on the date the application for the transfer of the licence to the new licensee is granted; and  
(b) the new licensee must prepare an Annual Return for the period commencing on the date the application for the transfer of the licence is granted and ending on the last day of the reporting period.

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

R1.4 Where this licence is surrendered by the licensee or revoked by the EPA or Minister, the licensee must prepare an Annual Return in respect of the period commencing on the first day of the reporting period and ending on:  
(a) in relation to the surrender of a licence - the date when notice in writing of approval of the surrender is given; or  
(b) in relation to the revocation of the licence - the date from which notice revoking the licence operates.

## Deadline for Annual Return

R1.5 The Annual Return for the reporting period must be supplied to the EPA by registered post not later than 60 days after the end of each reporting period or in the case of a transferring licence not later than 60 days after the date the transfer was granted (the 'due date').

## Notification where actual load can not be calculated

R1.6 Not applicable.

## Licensee must retain copy of Annual Return

R1.7 The licensee must retain a copy of the Annual Return supplied to the EPA for a period of at least 4 years after the Annual Return was due to be supplied to the EPA.

## Certifying of Statement of Compliance and signing of Monitoring and Complaints Summary

R1.8 Within the Annual Return, the Statement of Compliance must be certified and the Monitoring and Complaints Summary must be signed by:  
(a) the licence holder; or  
(b) by a person approved in writing by the EPA to sign on behalf of the licence holder.

R1.9 A person who has been given written approval to certify a certificate of compliance under a licence issued under the Pollution Control Act 1970 is taken to be approved for the purpose of this condition until the date of first review of this licence.



## R2 Notification of environmental harm

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

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

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

## R3 Written report

R3.1 Where an authorised officer of the EPA suspects on reasonable grounds that:

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

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

R3.2 The licensee must make all reasonable inquiries in relation to the event and supply the report to the EPA within such time as may be specified in the request.

R3.3 The request may require a report which includes any or all of the following information:

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

R3.4 The EPA may make a written request for further details in relation to any of the above matters if it is not satisfied with the report provided by the licensee. The licensee must provide such further details to the EPA within the time specified in the request.



## **R4 Water quality reporting (Kurnell Sector and Urban Sydney Sector)**

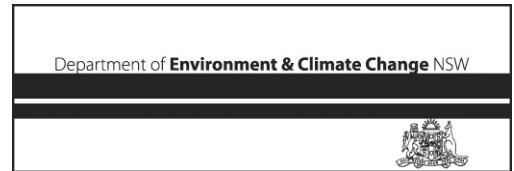
- R4.1 The licensee must provide to the EPA water quality reports during discharge to surface waters not later than 21 days after each sampling event where grab samples are collected (eg. Special Frequency 1).
- R4.2 Water quality monitoring reports must include, but not be limited to, the following:
- (a) the date(s) on which the samples were collected;
  - (b) the time(s) at which the samples were collected;
  - (c) the points at which the samples were collected;
  - (d) the weather conditions on the day that the samples were collected;
  - (e) an estimate of the volume of water discharged at each point;
  - (f) a summary of the water quality data for each sample collected;
  - (g) a summary of field measurements recorded for each discharge point during the period of discharge to which the report relates;
  - (h) an analysis of the water quality data presented;
  - (i) a description of any actions taken during discharge; and
  - (j) any recommendations for future management of discharges.

## **R5 Water quality reporting (Botany Bay Sector)**

- R5.1 The licensee must notify the EPA of water quality monitoring results which exceed the turbidity limits prescribed in Condition L3.5.
- R5.2 Notifications must be made within three hours by telephoning the EPA's Environment Line service on 131 555.
- R5.3 The licensee must submit the following reports to the EPA in respect of water quality monitoring undertaken in accordance with the requirements of this licence:
- (1) A Turbidity Investigation Report must be provided to the EPA within seven (7) days following an exceedence of the turbidity criteria prescribed in Condition L3.5. The report must:
    - (a) be submitted to the email address nominated from time to time by the EPA;
    - (b) include a map of each monitoring point;
    - (c) include numerical and graphical representation of the turbidity data results;
    - (d) include an interpretive analysis of the monitoring data by assessing monitoring locations against turbidity criteria prescribed in Condition L3.5;
    - (e) include details and location of works being undertaken at the time of the exceedence(s); and
    - (f) detail any remedial action taken, including the reasons for the decision if it was decided to take no remedial action.

# Environment Protection Licence

Licence - 12858



- (2) A quarterly Water Quality Monitoring Report that contains the results of any routine water quality monitoring undertaken must be provided to the EPA within 21 days of the end of the quarter (unless otherwise approved by the EPA having regard to the circumstances). The report must include:
  - (a) confirmation that the water quality monitoring has been undertaken in accordance with Condition M2.1;
  - (b) a description of the prevailing meteorological conditions during the monitoring period;
  - (c) a map of the monitoring points in relation to the current dredging activities;
  - (d) numerical and graphical representation of the monitoring results;
  - (e) an interpretive analysis of the monitoring results by assessing and reporting data collected from water quality monitoring points against relevant background water quality monitoring points (Points 24, 25, 26 and 27) and the relevant turbidity criteria prescribed in Condition L3.5;
  - (f) details and locations of works being undertaken during the monitoring period; and
  - (g) details of any remedial action taken during the monitoring period.
- (3) A monthly report verifying the relationship between total suspended solids (TSS) and turbidity for each operational construction area by correlation of water quality data.

R5.4 Reporting in accordance with Condition R5.3(1) is not required where dredging has ceased and exceedence of the turbidity limits prescribed in Condition L3.5 is due to clearing the dredge lines.

## R6 Daily complaints reporting

R6.1 The licensee must submit a weekly report to the EPA on Wednesdays by 4pm that provides details of all environment related complaints associated with dredging works received on the telephone complaints line required by Condition M5.1. The report must:

- (a) be submitted to the email address nominated from time to time by the EPA;
- (b) include a unique identifier for each complaint together with the details required by Condition M4.2;
- (c) include the complaints received between 12:00 pm on that Wednesday and 12:00 pm on the previous Wednesday; and
- (d) include any action taken by the licensee in response to the complaint.

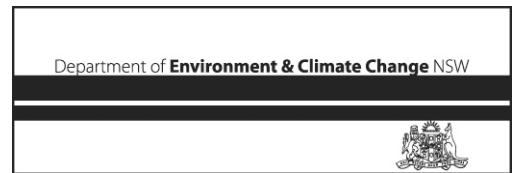
The licensee is not required to submit a report for any reporting period during which no complaints have been received.

## R7 Noise reporting

R7.1 The licensee must submit the following reports to the EPA in respect of any noise monitoring undertaken in accordance with the requirements of this licence:

# Environment Protection Licence

Licence - 12858



- (1) A Noise Investigation Report must be provided to the EPA following receipt of a noise complaint associated with dredging works within seven (7) days. This report must include:
  - (a) details and location of works being undertaken at the time of the complaint; and
  - (b) details of any remedial action taken, including the reasons for the decision if it was decided to take no remedial action.

Where noise monitoring is undertaken to resolve noise complaints, the report must also:

- (c) include numeric representation of the monitoring results;
- (d) highlight any exceedence of noise goals, noise limits or predicted noise levels in respect of the work being monitored; and
- (e) describe observed noise sources heard during attended monitoring.

In the event of any exceedence of noise goals, noise limits or predicted noise levels referred to in this condition, the licensee must modify work practices and methods and implement all practicable and reasonable measures to prevent a recurrence of the exceedence.

- (2) A Noise Monitoring Report that contains the results of any routine noise monitoring undertaken must be provided to the EPA within 21 days of the end of the month (unless otherwise approved by the EPA having regard to the circumstances of the case). The report must include, but not necessarily be limited to:
  - (a) confirmation that the noise monitoring has been undertaken in accordance with Conditions M7.1 and M7.2;
  - (b) confirmation of the prevailing meteorological conditions during the period when any noise monitoring was undertaken;
  - (c) a map of each monitoring location in relation to the noise source(s) including relevant distances;
  - (d) numeric representation of the monitoring results;
  - (e) an interpretive analysis of the monitoring results by assessing and reporting all noise monitoring results against predicted noise levels and the relevant noise limits prescribed in Condition L6.1;
  - (f) details of any remedial action taken, including the reasons for the decision if it was decided to take no remedial action;
  - (g) details and location of works being undertaken during the noise monitoring; and
  - (h) descriptions of observed noise sources heard during attended monitoring.

## General conditions

### **G1 Copy of licence kept at the premises**

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

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



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

## Pollution studies and reduction programs

## Special conditions

## Dictionary

### General Dictionary

In this licence, unless the contrary is indicated, the terms below have the following meanings:

<b>3DGM [in relation to a concentration limit]</b>	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
<b>Act</b>	Means the Protection of the Environment Operations Act 1997
<b>activity</b>	Means a scheduled or non-scheduled activity within the meaning of the Protection of the Environment Operations Act 1997
<b>actual load</b>	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 1998
<b>AM</b>	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> .
<b>AMG</b>	Australian Map Grid
<b>anniversary date</b>	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.
<b>annual return</b>	Is defined in R1.1
<b>Approved Methods Publication</b>	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 1998
<b>assessable pollutants</b>	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 1998
<b>BOD</b>	Means biochemical oxygen demand
<b>CEM</b>	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> .
<b>COD</b>	Means chemical oxygen demand
<b>composite sample</b>	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

# Environment Protection Licence



Licence - 12858

	collected at hourly intervals and each having an equivalent volume.
<b>cond.</b>	Means conductivity
<b>environment</b>	Has the same meaning as in the Protection of the Environment Operations Act 1997
<b>environment protection legislation</b>	Has the same meaning as in the Protection of the Environment Administration Act 1991
<b>EPA</b>	Means Environment Protection Authority of New South Wales.
<b>fee-based activity classification</b>	Means the numbered short descriptions in Schedule 1 of the Protection of the Environment Operations (General) Regulation 1998.
<b>flow weighted composite sample</b>	Means a sample whose composites are sized in proportion to the flow at each composites time of collection.
<b>general solid waste (non-putrescible)</b>	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
<b>general solid waste (putrescible)</b>	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
<b>grab sample</b>	Means a single sample taken at a point at a single time
<b>hazardous waste</b>	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
<b>licensee</b>	Means the licence holder described at the front of this licence
<b>load calculation protocol</b>	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 1998
<b>local authority</b>	Has the same meaning as in the Protection of the Environment Operations Act 1997
<b>material harm</b>	Has the same meaning as in section 147 Protection of the Environment Operations Act 1997
<b>MBAS</b>	Means methylene blue active substances
<b>Minister</b>	Means the Minister administering the Protection of the Environment Operations Act 1997
<b>mobile plant</b>	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
<b>motor vehicle</b>	Has the same meaning as in the Protection of the Environment Operations Act 1997
<b>O&amp;G</b>	Means oil and grease
<b>percentile [in relation to a concentration limit of a sample]</b>	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.
<b>plant</b>	Includes all plant within the meaning of the Protection of the Environment Operations Act 1997 as well as motor vehicles.
<b>pollution of waters [or water pollution]</b>	Has the same meaning as in the Protection of the Environment Operations Act 1997
<b>premises</b>	Means the premises described in condition A2.1
<b>public authority</b>	Has the same meaning as in the Protection of the Environment Operations Act 1997

# Environment Protection Licence



Licence - 12858

<b>regional office</b>	Means the relevant EPA office referred to in the Contacting the EPA document accompanying this licence
<b>reporting period</b>	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.
<b>restricted solid waste</b>	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
<b>scheduled activity</b>	Means an activity listed in Schedule 1 of the Protection of the Environment Operations Act 1997
<b>special waste</b>	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
<b>TM</b>	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> .
<b>TSP</b>	Means total suspended particles
<b>TSS</b>	Means total suspended solids
<b>Type 1 substance</b>	Means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or more of those elements
<b>Type 2 substance</b>	Means the elements beryllium, chromium, cobalt, manganese, nickel, selenium, tin or vanadium or any compound containing one or more of those elements
<b>utilisation area</b>	Means any area shown as a utilisation area on a map submitted with the application for this licence
<b>waste</b>	Has the same meaning as in the Protection of the Environment Operations Act 1997
<b>waste type</b>	Means liquid, restricted solid waste, general solid waste (putrescible), general solid waste (non-putrescible), special waste or hazardous waste

## Special Dictionary

<b>Botany Bay Sector</b>	The water-based component of the project between Silver Beach and Kyeemagh, including construction compounds at Kyeemagh and Silver Beach (illustrated in the figure submitted to EPA on 20 November 2008 referred to under Condition A2.1).
<b>Kurnell Sector</b>	The dry-land component of the project between the desalination plant site and Silver Beach, approximately 2.0 kilometres (illustrated in the figures in Attachment B referred to under Condition A2.1).
<b>Urban Sydney Sector</b>	The dry-land component of the project between Kyeemagh and Erskineville (illustrated in the figures in Attachment B referred to under Condition A2.1).

# Environment Protection Licence

Licence - 12858



Ms Gillian Reffell

Environment Protection Authority

(By Delegation)

Date of this edition - 07-Aug-2009

## End Notes

- 1 Licence varied by notice 1091875, issued on 21-Oct-2008, which came into effect on 21-Oct-2008.
- 2 Condition A1.3 Not applicable varied by notice issued on <issue date> which came into effect on <effective date>
- 3 Licence varied by notice 1093304, issued on 08-Dec-2008, which came into effect on 08-Dec-2008.
- 4 Licence varied by notice 1100704, issued on 15-May-2009, which came into effect on 15-May-2009.
- 5 Licence varied by notice 1104380, issued on 07-Aug-2009, which came into effect on 07-Aug-2009.