Government of Western Australia
Department of Water and Environmental Regulation

Licence

Licence Number	L8614/2011/2
Licence Holder	Downer Edi Works Pty Ltd
ACN	008 709 608
Registered business address	Business Campus Level 2, 39 Delhi Road NORTH RYDE NSW 2113
DWER file number	2011/010675
Duration	22/12/2013 to 21/12/2033
Date of issue	5/12/2013
Date of amendment	09/01/2024
Premises details	Albany Asphalt Plant Lot 2 Rocky Crossing Road WILLYUNG WA 6330 Legal description - Part of Lot 6 on Diagram 69555 Certificate of Title Volume 2011 Folio 646 As defined by the premises boundary map in Schedule 1 and coordinates in Schedule 2

Prescribed premises category description (Schedule 1, *Environmental Protection Regulations 1987*)	**Assessed production capacity**
Category 35: Asphalt manufacturing: premises on which hot or cold mix asphalt is produced using crushed or ground rock aggregates mixed with bituminous or asphaltic materials for use at places or premises other than those premises.	15,000 tonnes per annual period
Category 61A: Solid waste facility: premises (other than premises within category 67A) on which solid waste produced on other premises is stored, reprocessed, treated, or discharged onto land	6,000 tonnes per annual period

This licence is granted to the licence holder, subject to the attached conditions, on 09 January 2024, by:

Amine Fisher

Digitally signed by Amine Fisher
Date: 2024.01.09 15:40:04 +08'00'

MANAGER PROCESS INDUSTRIES

an officer delegated under section 20 of the *Environmental Protection Act 1986* (WA)

Licence history

Date	Reference number	Summary of changes
5/12/2013	L8614/2011/2	New licence issued
29/4/2016	L8614/2011/2	Change expiry date to 21 December 2033
17/1/2023	W6564/2021/1	New works approval granted for construction of a replacement asphalt plant on the premises
09/01/2024	L8614/2011/2	Licence amendment to include operation of a new replacement asphalt manufacturing plant constructed under works approval W6564/2021/1. The amendment includes a reduction in the assessed throughput, inclusion of Category 61A to allow receipt of RAP onto the premises and revision of the licence to current format.

Interpretation

In this licence:

a) the words 'including', 'includes' and 'include' in conditions mean "including but not limited to", and similar, as appropriate;

b) where any word or phrase is given a defined meaning, any other part of speech or other grammatical form of that word or phrase has a corresponding meaning;

c) where tables are used in a condition, each row in a table constitutes a separate condition;

d) any reference to an Australian or other standard, guideline, or code of practice in this licence:

(i) if dated, refers to that particular version; and

(ii) if not dated, refers to the latest version and therefore may be subject to change over time;

e) unless specified otherwise, any reference to a section of an Act refers to that section of the EP Act; and

f) unless specified otherwise, all definitions are in accordance with the EP Act.

NOTE: This licence requires specific conditions to be met but does not provide any implied authorisation for other emissions, discharges, or activities not specified in this licence.

Licence conditions

The licence holder must ensure that the following conditions are complied with:

Infrastructure and equipment

1. The licence holder must ensure that the site infrastructure and equipment listed in Table 1 and located at the corresponding infrastructure location is maintained and operated in accordance with the corresponding operational requirements set out in Table 1.

Table 1: Infrastructure and equipment requirements

	Site infrastructure and equipment	Operational requirements	Infrastructure location
1	Asphalt plant comprising • Rotary dryer; • Burner unit; and • Pugmill mixer	a) The bitumen product used in the plant for asphalt production must be Class 320 bitumen. b) The rotary dryer burner unit must be operated with low sulfur diesel. c) The rotary dryer burner unit temperature must be monitored and controlled by the Process Control System. d) Rotary dryer and pugmill mixer must only be operated when the baghouse is operational e) Exhaust gases from the rotary dryer and pugmill mixer must be directed to the baghouse for treatment and discharged via the baghouse stack. f) The temperature of the dried raw material and mixed asphalt must be monitored via the Process Control System which must be programmed to alarm at temperatures >180ºC. g) Temperature of the rotary dryer and pugmill mixer must be reduced in the event of a temperature alarm of blue smoke being detected. h) Weekly downwind boundary odour screening must be undertaken when the plant is in operation.	As depicted in Schedule 1: Figure 2 New Asphalt Plant Location
2	Drag slat conveyor and asphalt load-out hopper	a) Asphalt must be transferred into trucks via the drag slat conveyor and asphalt load out hopper. b) Asphalt load-out must be monitored via the Process Control System. c) All vehicles leaving the loadout hopper must have trays tarped.	As depicted in Schedule 1: Figure 2 Drag slat conveyor and asphalt load-out hopper
3	Bag house and stack	a) Exhaust gases from the baghouse must be discharged to the atmosphere via a 12 m high stack. b) Baghouse filters must be inspected no less than once per month. c) Blocked, broken or leaking baghouse filters must be immediately replaced	As depicted in Schedule 1: Figure 2 A1 Stack

	Site infrastructure and equipment	Operational requirements	Infrastructure location
		when detected. d) The Process Control System must monitor the baghouse and cease operation of the asphalt plant if a baghouse fault or malfunction is detected. e) If blue smoke is detected from the baghouse or stack the temperature of the rotary dryer and pugmill mixer must be reduced. f) The baghouse must be operated with an automatic reverse air pulse jet cleaning system. g) Collected dust must be transferred back into the pugmill mixer via auger screws.	
4	1x 30 tonne imported filler silo	a) Filler must be delivered into the silo via an enclosed delivery system. b) The silo vent filter must be inspected no less than once per month. c) The silo vent filter cartridge must be replaced if it is found to be blocked, damaged or leaking when inspected.	NA
5	2x 60m^3 bitumen storage tanks	a) Only Class 320 bitumen is to be stored in the tanks. b) The bitumen temperature must be monitored via the Process Control System, which must be programmed to alarm at temperatures >180ºC. c) Temperature of the tanks must be reduced in the event of a temperature alarm. d) Vapours from the tank breather vents must be directed to a water bath.	As depicted in Schedule 1: Figure 2 Bitumen Storage Tanks
6	6x Raw material and RAP storage bays	a) Sand, aggregate and RAP must be stored within the bays. b) Material stored in storage bays must not exceed the height of the bay walls. c) A water cart must be used as required to wet material stockpiles to prevent visible dust generation from the storage bays. d) Raw material delivery trucks must have covered loads.	As depicted in Schedule 1: Figure 2 Material Bays Location
7	Asphalt area	A road sweeper must be used to sweep roads and asphalt operational areas to prevent dust build up.	NA

2. The licence holder must ensure that no visible dust generated by activities at the premises is discharged beyond the boundary of the premises.

Emissions and discharges

Emissions to air

3. The licence holder must ensure that the emissions specified in Table 2, are discharged only from the corresponding discharge point and only at the corresponding discharge point location.

Table 2: Authorised discharge point(s) to air

Emission	Discharge point	Discharge point height	Discharge point location
Particulate matter	Baghouse Exhaust Stack – A1	12 metres above ground level	As depicted in Schedule 1: Figure 2 A1 Stack Emissions Point
Oxides of nitrogen			
Carbon monoxide			
Volatile organic compounds			
Sulfur dioxide			
Metals			
Formaldehyde			

4. The licence holder must ensure that emissions from the discharge point listed in Table 3 do not exceed the corresponding limit(s) when monitored in accordance with condition 13.

Table 3: Discharge to air limits

Discharge point	Emission	Limit
Baghouse Exhaust Stack – A1	Particulate matter	20 mg/m^3
	Exit velocity of exhaust gases	>12 m/s

Emissions to land

5. The licence holder must ensure that the emissions specified in 4, are discharged only from the corresponding discharge point and only at the corresponding discharge point location.

Table 4: Authorised discharge point(s) to land

Emission	Discharge point	Discharge point location
Stormwater from the triple interceptor outlet	L1	As depicted in Schedule 1: Figure 2 Stormwater discharge point

6. The licence holder must ensure that emissions from the discharge point listed in Table 5 for the corresponding parameter do not exceed the corresponding limit when monitored in accordance with condition 14.

Table 5: Discharge to land limits

Discharge point	Parameter	Limit
L1	TRH	15 mg/L

Monitoring

7. The licence holder must ensure that:
   a) all wastewater sampling is conducted in accordance with AS/NZ 5667.10; and
   b) all laboratory samples are submitted to a laboratory with current NATA accreditation for the parameters to be measured.
8. The licence holder must ensure that:
   a) monitoring is undertaken in each six-monthly period such that there are at least 5 months in between the days on which samples are taken in successive periods of six months; and
   b) monitoring is undertaken in each annual period such that there are at least 9 months in between the days on which samples are taken in successive years.
9. The licence holder must record production or throughput data and any other process parameters relevant to any monitoring undertaken.
10. The licence holder must ensure that sampling required under condition 13 of the licence is undertaken at sampling locations in accordance with AS 4323.1.
11. The licence holder must ensure that all non-continuous sampling and analysis undertaken pursuant to condition 13 is undertaken by a holder of NATA accreditation for the relevant methods of sampling and analysis.
12. The licence holder must record the results of all monitoring activity required by condition 13 or 14.

Monitoring of discharges to air

13. The licence holder must monitor emissions:
   a) from each discharge point;
   b) for the corresponding parameter;
   c) at the corresponding frequency;
   d) for the corresponding averaging period;
   e) in the corresponding unit; and
   f) using the corresponding method,

   as set out in Table 6.

Table 6: Emissions and discharge monitoring for emissions to air

Discharge point	Parameter	Frequency	Averaging period	Unit[1, 2]	Method of Sampling and Analysis
Baghouse Exhaust Stack – A1	Particulate matter	Annually	minimum 30 mins	mg/m^3 and g/s	USEPA Method 5 or 17
	Oxides of nitrogen				USEPA Method 7E
	Carbon monoxide				USEPA Method 10
	Total volatile organic compounds				USEPA Method 18
	Volumetric flow rate			m^3/s	USEPA Method 2
	Exit velocity			m/s	

Note 1: All units are referenced to STP dry
Note 2: Concentration units are referenced to 17% O_2

Monitoring of discharges to land.

14. The licence holder must monitor emissions:

a) from each discharge point;

b) for the corresponding parameter;

c) at the corresponding frequency;

d) for the corresponding averaging period;

e) in the corresponding unit; and

f) using the corresponding method,

as set out in Table 7.

Table 7: Monitoring of discharge monitoring for discharges to land

Discharge point	Parameter	Frequency	Averaging period	Unit[1, 2]
Stormwater discharge point from triple-interceptor L1	Total suspended solids	Six monthly	Spot sample	mg/L
	Surfactants			
	Total recoverable hydrocarbons			
	pH			-
	BTEX			µg/L

Records and reporting

15. The licence holder must record the following information in relation to complaints received by the licence holder (whether received directly from a complainant or forwarded to them by the Department or another party) about any alleged emissions from the premises:

a) the name and contact details of the complainant, (if provided);

b) the time and date of the complaint;

c) the complete details of the complaint and any other concerns or other issues raised; and

d) the complete details and dates of any action taken by the licence holder to investigate or respond to any complaint.

16. The licence holder must:

a) undertake an audit of their compliance with the conditions of this licence during the preceding annual period; and

b) prepare and submit to the CEO by no later than 62 days after the end of that annual period an Annual Audit Compliance Report in the approved form.

17. The licence holder must maintain accurate and auditable books including the following records, information, reports, and data required by this licence:

a) the calculation of fees payable in respect of this licence;

b) any maintenance of infrastructure that is performed in the course of complying with condition 1 of this licence;

c) monitoring programmes undertaken in accordance with conditions 13 and 14 of this licence; and

d) complaints received under condition 15 of this licence.

18. The books specified under condition 17 must:

a) be legible;

b) if amended, be amended in such a way that the original version(s) and any subsequent amendments remain legible and are capable of retrieval;

c) be retained by the licence holder for the duration of the licence; and

d) be available to be produced to an inspector or the CEO as required.

19. The licence holder must submit to the CEO by no later than 62 days after the end of each annual period, an Annual Environmental Report for that annual period for the conditions listed in Table 8, and which provides information in accordance with the corresponding requirement set out in Table 8.

Table 8: Annual Environmental Report

Condition	Requirement
13 9 5	Emissions to air monitoring results for the annual period together with any relevant process, production or operational data. An interpretation of the monitoring data including comparison to historical trends and emission limits. Copies of original monitoring, laboratory and analysis reports submitted by third parties.
14 6	Emissions to land monitoring results for the annual period. An interpretation of the monitoring data including comparison to historical trends and emission limits. Copies of original monitoring, laboratory and analysis reports submitted by third parties.
15	Summary of complaints received during the annual period, including the number and nature of complaints.

20. The licence holder must, within 7 days of becoming aware of any non-compliance with condition 2, 4 or 6 of this licence, notify the CEO in writing of that non-compliance and include in that notification the following information:

a) which condition was not complied with;

b) the time and date when the non-compliance occurred;

c) if any environmental impact occurred as a result of the non-compliance and if so what that impact is and where the impact occurred;

d) the details and result of any investigation undertaken into the cause of the non-compliance;

e) what action has been taken and the date on which it was taken to prevent the non-compliance occurring again; and

f) what action will be taken and the date by which it will be taken to prevent the non-compliance occurring again.

Definitions

In this licence, the terms in Table 9 have the meanings defined.

Table 9: Definitions

Term	Definition
ACN	Australian Company Number
Annual Audit Compliance Report (AACR)	means a report submitted in a format approved by the CEO (relevant guidelines and templates may be available on the Department's website).
annual period	means a 12 month period commencing from 1July until 30 June of the immediately following year.
AS/NZ 5667.10	means Australian Standard AS/NZ 5667.10 Water quality - Sampling Guidance on sampling of waste waters
AS4323.1	means Australian Standard AS4323.1 Stationary source emissions Selection of sampling positions and measurement of velocity in stacks
BTEX	means benzene toluene, ethyl-benzene and xylene
CEO	means Chief Executive Officer of the Department. "submit to / notify the CEO" (or similar), means either: Director General Department administering the *Environmental Protection Act 1986* Locked Bag 10 Joondalup DC WA 6919 or: info@dwer.wa.gov.au
Department	means the department established under section 35 of the *Public Sector Management Act 1994* (WA) and designated as responsible for the administration of the EP Act, which includes Part V Division 3.
discharge	has the same meaning given to that term under the EP Act.
emission	has the same meaning given to that term under the EP Act.
EP Act	*Environmental Protection Act 1986* (WA)
EP Regulations	*Environmental Protection Regulations 1987* (WA)
licence	refers to this document, which evidences the grant of a licence by the CEO under section 57 of the EP Act, subject to the specified conditions contained within.
licence holder	refers to the occupier of the premises, being the person specified on the front of the licence as the person to whom this licence has been

Term	Definition
	granted.
premises	refers to the premises to which this licence applies, as specified at the front of this licence and as shown on the premises maps in Schedule 1 to this licence.
RAP	means reclaimed asphalt pavement
STP dry	means standard temperature and pressure (0° Celsius and 101.325 kilopascals respectively) dry
TRH	means total recoverable hydrocarbons
USEPA	means United States (of America) Environmental Protection Agency

END OF CONDITIONS

Schedule 1: Maps

Premises map

The boundary of the prescribed premises is shown in yellow in the map below (Figure 1).

Figure 1: Map of the boundary of the prescribed premises

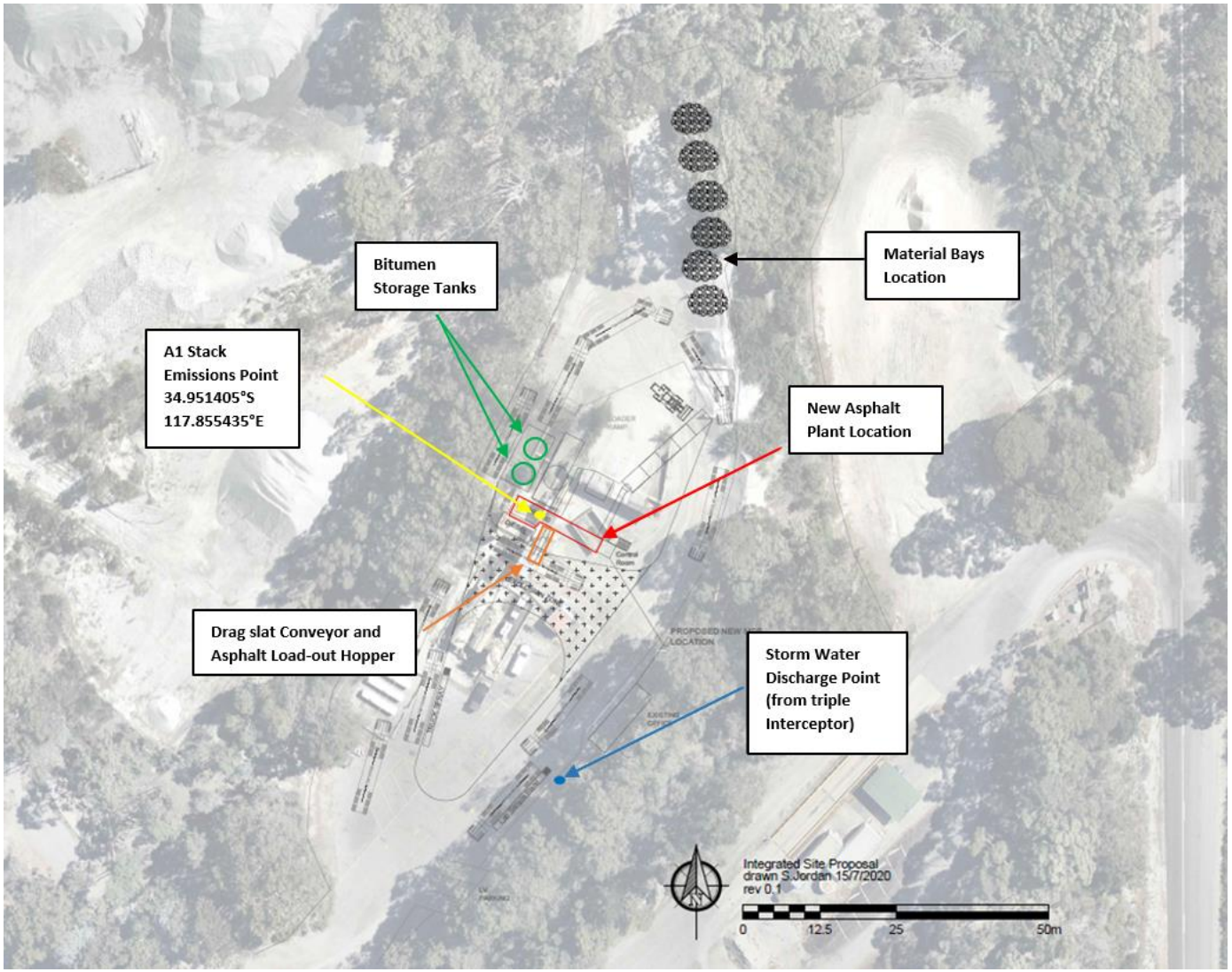

Figure 2: Layout of plant

Schedule 2: Premises boundary

The corners of the premises boundary are the coordinates listed in Table 10.

Table 10: Premises boundary coordinates (GDA2020)

	Latitude	Longitude
1.	34.950646493° S	117.855416323° E
2.	34.950635394° S	117.855711904° E
3.	34.951166750° S	117.855805040° E
4.	34.951573650° S	117.855644992° E
5.	34.952046133° S	117.855135163° E
6.	34.951993422° S	117.854937481° E
7.	34.951668520° S	117.854977915° E
8.	34.951414824° S	117.855150510° E
9.	34.951034280° S	117.855409400° E