



Licence Number L8904/2015/1

Licence Holder Cleanaway Solid Waste Pty Ltd

ACN 120 175 635

File Number: DER2015/001648

Premises Banksia Road Putrescible Landfill
Banksia Road
CROOKED BROOK WA 6236

Being Lot 2 on Plan 65861
Certificate of Title Volume 1670 Folio 568

Date of Amendment 2 February 2018

Amendment

The Chief Executive Officer (CEO) of the Department of Water and Environmental Regulation (DWER) has amended the above Licence in accordance with section 59 of the *Environmental Protection Act 1986* (EP Act) as set out in this Amendment Notice. This Amendment Notice constitutes written notice of the amendment in accordance with section 59B(9) of the EP Act.

Date signed: 2 February 2018

Stephen Checker

Manager Licensing (Waste Industries)

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

Definitions and interpretation

Definitions

In this Amendment Notice, the terms in Table 1 have the meanings defined.

Table 1: Definitions

Term	Definition
Amendment Notice	refers to this document
Cell 6	means the cell marked as 'Cell 6' in Schedule 2 to the Licence

Amendment Notice

This amendment is made pursuant to section 59 of the *Environmental Protection Act 1986* (EP Act) to amend the Licence issued under the EP Act for a prescribed premises as set out below. This notice of amendment is given under section 59B(9) of the EP Act.

This notice is limited only to an amendment to the activities under Category 64 to give effect to the completed construction of cell 6 which was completed in 2017.

The following guidance statements have informed the decision made on this amendment:

- *Guidance Statement: Regulatory Principles (July 2015)*
- *Guidance Statement: Setting Conditions (October 2015)*
- *Guidance Statement: Decision Making (February 2017)*

Amendment description

On 30 August 2017 the Licence Holder submitted compliance documentation for the completion of landfill cell 6, for which the construction and subsequent operation had been assessed and approved under a previous licence amendment granted 16 April 2017. The compliance documentation inherently included certification by a suitably qualified independent third party professional engineer (Aaron O'Malley, qualified Geotechnical Engineer of Bowman and Associates) to certify that the works had conformed to the required specifications set via the licence amendment.

It is understood that landfill cell 6 has been commissioned and in operation since submission of the compliance documentation and in accordance with advice given by the Delegated Officer to the Licence Holder. Notwithstanding this, amendments to a number of conditions are appropriate to clearly reflect the authorisation of landfilling in cell 6 under the Existing Licence.

This Amendment Notice does not include any assessment of environmental risk relevant to the operation of landfill cell 6, as this was addressed through the previous licence amendment granted 13 April 2017.

Amendment history

Table 2 provides the amendment history for L8904/2015/1, since it was issued on 3 August 2015.

Table 2: Licence amendments

Instrument	Issued	Amendment
L8904/2015/1	22/10/2015	Licence amendment to authorise operation of leachate evaporation pond 3, constructed under W5748
	5/05/2016	Licence amendment to: <ul style="list-style-type: none">• change company name;• authorise operation of cell 12 constructed under W5748; and• address stormwater upgrades
	21/07/2016	Licence amendment to: <ul style="list-style-type: none">• Accept approximately 3,000 tonnes per annual period of drill muds for blending and disposal to landfill; and• increase allowable volumes of TWM Processed Septage to 3,000 tonnes per annual period.
	13/04/2017	Licence amendment for: <ul style="list-style-type: none">• construction and operation of three composite HDPE liner Class III landfill cells (cells 6, 7 and 8);

		<ul style="list-style-type: none"> • construction and operation of a phytocapping trial on Class III landfill cell 5; and • review of Premises operations and regulatory controls.
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Decision

The Delegated Officer has reviewed the Cell 6 compliance documentation and considers that it meets the requirements of Condition 3.3.2. The risk assessment relating to the operation of Cell 6 is detailed in the amendment to L8904/2015/1 dated 13/04/2017.

The Licence is amended to authorise the use of Cell 6 and the incorporation of Cell 6 into the active landfill area. Conditions 1.4.3 and 1.4.6 have been amended to remove restrictions on landfilling to Cell 6.

Licence Holder's comments

The Licence Holder was provided with the draft Amendment Notice on 18 January 2018. The Licence Holder responded on 27 January 2018 with no comments and waiving the remainder of the consultation period.

Amendment

1. Condition 1.4.3 of the Licence is amended by the deletion of the text shown in strikethrough and the insertion of the red text shown in underline below:

1.4.3 *The Licence Holder must ensure that waste types set out in Column 1 of Table 1.4.3 and Table 1.4.4 accepted onto the Premises are only subjected to the process(es) set out in Column 2 of Table 1.4.3 and Table 1.4.4 and in accordance with any process limits described in Column 3 of Table 1.4.3 and Table 1.4.4 for the waste type in each row of Table 1.4.3 and Table 1.4.4.*

Table 1.4.3: Waste processing – liquid waste		
Column 1	Column 2	Column 3
Waste type	Process(es)	Process limits
Liquid waste	Receipt, handling, storage, treatment and disposal of waste	<p>(a) <i>Cristal Pigment Slurry must only to be disposed of into the designated MIC cell, as depicted in Map 1 Schedule 1.</i></p> <p><i>Drill muds must be processed to a solid waste prior to landfilling by the following process:</i></p> <p>(b) <i>temporarily stored in sealed vessels on a 200mm sacrificial sand layer within an active Class III landfill cell of the Active Landfill Area;</i></p> <p>(c) <i>unloaded and treated on a Hardstand:</i></p> <p>(i) <i>with bund walls that prevent the discharge of leachate from the Hardstand; and</i></p> <p>(ii) <i>by mixing with shredded timber, compost, Clean Fill or other absorbent material to ensure a spadeable consistency;</i></p> <p>(d) <i>demonstrated to achieve contaminant levels that comply with the Acceptance Criteria for Class III landfills, as demonstrated by the analysis of samples required by Condition 2.3.1; and</i></p>

		(e) Disposed of via landfilling in accordance with Condition 1.4.3, Table 1.4.4.
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Table 1.4.4: Waste processing – solid waste

Column 1	Column 2	Column 3
Waste type	Process(es)	Process limits
Clean Fill	Receipt, handling, storage, treatment and disposal of waste by landfilling	None specified.
Contaminated Solid Waste Drill muds (processed in accordance with Condition 1.4.3, Table 1.4.3(b) – (e)) Inert Waste Type 1 Inert Waste Type 2 Putrescible Waste Special Waste Type 2 TWM processed septage		(a) Waste must only be disposed of by burial to the Active Landfill Area <u>or Cell 6</u> . (b) All waste, except Special Waste Type 1, must be levelled in layers no greater than 0.5 m thick and compacted with a minimum 3 passes with the compacter. (c) Burning of waste is prohibited. (d) No tyres are to be landfilled.
Special Waste Type 1		(e) Waste must only be disposed of by burial to the Active Landfill Area <u>or Cell 6</u> . (f) Disposal must not result in the discharge of ACM or asbestos fibres. (g) Bulk loads of soil containing ACM or asbestos must be wet down during disposal, levelling and immediate burial. (h) Waste must not be compacted until covered in accordance with Condition 1.4.7, Table 1.4.8.

1. Condition 1.4.4 of the Licence is amended by the deletion of the text shown in strikethrough below:

1.4.4 The Licence Holder must ensure that all cell(s) listed in Column 1 of Table 1.4.5 and Table 1.4.6 are maintained and operated to meet or exceed the specifications listed in Column 2 of Table 1.4.5 and Table 1.4.6 for the cell(s) listed in each row of Table 1.4.5 and Table 1.4.6.

Table 1.4.5: Liquid waste containment infrastructure

Column 1	Column 2
Cell(s)	Specifications
MIC Cell	(a) Lined with an engineered geosynthetic/ HDPE composite liner free of leaks and defects. (b) Cristal Pigment Slurry must be maintained in a damp state. (c) All leachate must be directed to the MIC Cell Leachate Pond. (d) All leachate pipes, gravity feeds and pumps must be free of blockage, leak and defect.

Table 1.4.6: Solid waste containment infrastructure	
Column 1	Column 2
Cell Number(s)	Infrastructure requirements
All landfill cells (Cell 1, 2, 3, 4A, 4B, 5, 12 and 6, 7 and 8)	<p>(a) The landfill profile must remain stable and any cracking, slumping or failure of the final cover or landfill walls must be reworked with Clean Fill and stabilised.</p> <p>(b) The final cover must be able to incorporate the landfill gas management system.</p> <p>(c) All leachate pipes, gravity feeds and pumps must be free of blockage, leak and defect.</p> <p>(d) All leachate sumps must be maintained free of leaks and defects.</p> <p>(e) All leachate from the leachate sumps must be directed to a leachate pond.</p>
Cell 1 and 2 (Class II)	(f) Capped with interim cover of a minimum of 1 metre of Clean Fill.
Cells 3, 4A, 4B, 5 and 12 (Class III)	<p>(g) Engineered geosynthetic/ HDPE composite cell floor liners to achieve a permeability of at least $<1 \times 10^{-9}$ m/s or equivalent.</p> <p>(h) Engineered geosynthetic/ HDPE composite cell floor liners overlain by a minimum 200mm sand layer on all embankment slopes to protect the liner prior to the disposal of any waste</p>
Cells 6, 7 and 8 (Class III).	<p>(i) In accordance with Condition 1.3.1, Table 1.3.1.</p> <p>(j) Landfilling of waste must not occur.</p>

Appendix 1: Key documents

	Document title	In text ref	Availability
1	DER, July 2015. <i>Guidance Statement: Regulatory Principles</i> . Department of Environment Regulation, Perth.	DER 2015a	accessed at www.dwer.wa.gov.au
2	DER, February 2017. <i>Guidance Statement: Decision Making</i> . Department of Environment Regulation, Perth.	DER 2016c	