



## Application for Licence Amendment

### Part V Division 3 of the *Environmental Protection Act 1986*

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<b>Licence Number</b>	L7782/2002/6
<b>Licence Holder</b>	Brodan (WA) Pty Ltd
<b>ACN</b>	130 206 274
<b>File Number</b>	DEC7348/1
<b>Premises</b>	Northsands Resources 86 Wesco Road NOWERGUP WA 6032  Legal description – Part of Lot 6 on Diagram 34734 Certificate of Title Volume 1500 Folio 124 As defined by the coordinates in Schedule 2 of the Revised Licence
<b>Date of Report</b>	21 October 2022
<b>Decision</b>	Revised licence granted

**MANAGER WASTE INDUSTRIES  
REGULATORY SERVICES**

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

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## 1. Decision summary

Licence L7782/2002/6 is held by Brodan (WA) Pty Ltd (Licence Holder) for the Northsands Resources premises (the Premises), located at 86 Wesco Road, Nowergup. The Premises is located within Part of Lot 6 on Diagram 34734.

This Amendment Report documents the assessment of potential risks to the environment and public health from proposed changes to the emissions and discharges during the operation of the Premises. As a result of this assessment, Revised Licence L7782/2002/6 has been granted.

The Revised Licence issued as a result of this amendment consolidates and supersedes the existing Licence previously granted in relation to the Premises. The Revised Licence has been granted in a new format with existing conditions being transferred, but not reassessed, to the new format.

## 2. Scope of assessment

### 2.1 Regulatory framework

In completing the assessment documented in this Amendment Report, the department has considered and given due regard to its Regulatory Framework and relevant policy documents which are available at <https://dwer.wa.gov.au/regulatory-documents>.

### 2.2 Application summary

On 28 July 2022, the Licence Holder submitted an application to the department to amend Licence L7782/2002/6 under section 59 and 59B of the *Environmental Protection Act 1986* (EP Act). The following amendments are being sought:

- An increase of the Category 12 throughput capacity from 60,000 tonnes per annual (tpa) period to 200,000 tpa; and
- The inclusion of a specifically defined area for the Class I inert landfill.

The Licence Holder states that increased demand for sand resources has resulted in more material being extracted and screened at the Premises, with operations occurring above the approved licence capacity for a number of years.

The Licence Holder previously submitted an application to amend the throughput from 60,000 tpa to 200,000 tpa in 2014, which was incorporated into a larger project of converting existing licences into the REFIRE licence format being implemented at the time. The Licence Holder was requested to provide additional information in support of the application, as comments received from the City of Wanneroo suggested that the appropriate planning and extractive industry approvals were not in place. This information was not provided and as the REFIRE conversion project was not progressed to completion, the amendment was not progressed.

It is understood that the Licence Holder has since obtained the relevant planning approvals and extractive industries licence from the City of Wanneroo. These have been provided to the department (DA2017/336).

This amendment is limited only to changes to Category 12 and 63 activities from the Existing Licence. No changes to the aspects of the existing Licence relating to Category 13, 62 and 67A have been requested by the Licence Holder.

Table 1 below outlines the proposed changes to the existing Licence.

**Table 1: Proposed throughput capacity changes**

Category	Current capacity	throughput	Proposed capacity	throughput	Description of proposed amendment
12	60,000 tonnes per annual period		200,000 tonnes per annual period		An increase to the Category 12 capacity to align with the throughput volumes processed at the premises over a number of years.
63	20,000 tonnes per annual period		No change.		Specification of a defined landfill area.

## 2.3 Consolidation of Licence

As part of this amendment package the department has consolidated the licence by incorporating changes made under the amendments summarised in Table 2.

**Table 2: Licences consolidated in this amendment**

Instrument	Issued	Summary of approval
L7782/2002/6	26/04/2022	Licence granted
L7782/2002/6	16/05/2022	Notice of Amendment of Licence Reporting Requirements
L7782/2002/6	DD/MM/2022	Increase to the Category 12 capacity from 60,000 to 200,000 tonnes per annual period. The area of the inert landfill was also defined.

The obligations of the Licence Holder have not changed in consolidating the licence. The department has not undertaken any additional risk assessment of the Premises related to previous Amendment Notices.

In consolidating the licence, the CEO has:

- updated the format and appearance of the Licence;
- revised licence condition's numbers, and removed any redundant conditions and realigned condition numbers for numerical consistency; and
- corrected clerical mistakes and unintentional errors.

The full consolidation of licence conditions as they relate to this Revised Licence are detailed in Section 5.1. Previously issued Amendment Notices will remain on the department's website for future reference and will act as a record of the department's decision making.

## 3. Risk assessment

The department assesses the risks of emissions from prescribed premises and identifies the potential source, pathway and impact to receptors in accordance with the *Guideline: Risk assessments* (DWER 2020).

To establish a Risk Event there must be an emission, a receptor which may be exposed to that emission through an identified actual or likely pathway, and a potential adverse effect to the receptor from exposure to that emission.

## 3.1 Source-pathways and receptors

### 3.1.1 Emissions and controls

The key emissions and associated actual or likely pathway during premises operation which have been considered in this Amendment Report are detailed in Table 3 below.

Table 3 also details the proposed control measures the Licence Holder has proposed to assist in controlling these emissions, where necessary.

**Table 3: Licence Holder controls**

Emission	Sources	Potential pathways	Proposed controls
Dust	Crushing and screening of extracted sand and limestone Stockpile lift-off Vehicle movements	Air/windborne pathway	<ul style="list-style-type: none"> <li>– Operation of water cart during windy conditions</li> <li>– Fixed sprinkler system on access road</li> <li>– Grading and maintenance of access road</li> <li>– Water sprinklers for use on crushing and screening plant as required</li> <li>– Crushing and screening doesn't occur during windy conditions</li> <li>– Visual monitoring during operations</li> </ul>
Noise	Crushing and screening of extracted sand and limestone Vehicle loading Vehicle movements	Air/windborne pathway	<ul style="list-style-type: none"> <li>– Siting of equipment at the base of the quarry</li> </ul>
Sediment laden stormwater	Runoff from stockpiles and exposed areas Vehicle movements	Overland runoff	<ul style="list-style-type: none"> <li>– Access road partially sealed</li> <li>– Grated intercept drain at premises entrance</li> </ul>

### 3.1.2 Receptors

In accordance with the *Guideline: Risk assessments* (DWER 2020), the Delegated Officer has excluded employees, visitors and contractors of the Licence Holder's from its assessment. Protection of these parties often involves different exposure risks and prevention strategies, and is provided for under other state legislation.

Table 4 below provides a summary of potential human and environmental receptors that may be impacted as a result of activities upon or emission and discharges from the prescribed premises (*Guideline: Environmental siting* (DWER 2020)).

**Table 4: Sensitive human and environmental receptors and distance from prescribed activity**

Receptors	Distance from prescribed activity
<b>Human receptors</b>	
<b>Sensitive receptor –</b> Rural homestead 1	Approximately 60 m west of the Premises boundary and 490 m northwest of the quarry area
<b>Sensitive receptor –</b> Rural homestead 2	Approximately 180 m west of the Premises boundary and 450 m west of the quarry area
<b>Sensitive receptor –</b> Rural homestead 3	Approximately 35 m south of the Premises boundary and 265 m south of the quarry area
<b>Industrial receptor –</b> Limestone quarry	Adjacent to the northeast Premises boundary
<b>Industrial receptor –</b> Chicken farm	Adjacent to the southern Premises boundary
<b>Environmental receptors</b>	
<b>Underlying groundwater –</b> Perth - Superficial Swan (non-potable purposes)	Ranging between approximately 27 – 22 mAHD across the Premises.
<b>Geomorphic wetland –</b> Neerabup Lake (Resource Enhancement)	Approximately 290 m southwest of the Premises boundary and 590 m southwest of the quarry area
<b>DBCA managed tenure –</b> Public Transport Authority offset for the Metronet Yanchep Rail project. DBCA managed Crown freehold under section 8A of the <i>Conservation and Land Management Act 1984</i>	Approximately 100 m south of the Premises boundary and 225 m south of the quarry area
<b>Threatened Ecological Community (TEC) –</b> <i>SCP26a Melaleuca huegelii - Melaleuca systema</i> shrublands on limestone ridges. Listed as endangered under the <i>Biodiversity Conservation Act 2016</i>	Part of the above tenure.

## 3.2 Risk ratings

Risk ratings have been assessed in accordance with the *Guideline: Risk Assessments* (DWER 2020) for those emission sources which are proposed to change and takes into account potential source-pathway and receptor linkages as identified in Section 3.1. Where linkages are incomplete they have not been considered further in the risk assessment.

Where the Licence Holder has proposed mitigation measures/controls (as detailed in Section 3.1), these have been considered when determining the final risk rating. Where the Delegated Officer considers the Licence Holder's proposed controls to be critical to maintaining an acceptable level of risk, these will be incorporated into the licence as regulatory controls.

Additional regulatory controls may be imposed where the Licence Holder's controls are not deemed sufficient. Where this is the case the need for additional controls will be documented and justified in Table 4.

The Revised Licence L7782/2002/6 that accompanies this Amendment Report authorises emissions associated with the operation of the Premises i.e. raw material extraction, waste acceptance, soil blending and landfilling activities.

The conditions in the Revised Licence have been determined in accordance with *Guidance Statement: Setting Conditions* (DER 2015).

**Table 4. Risk assessment of potential emissions and discharges from the Premises during operation**

Risk Event					Risk rating <sup>1</sup> C = consequence L = likelihood	Licence Holder's controls sufficient?	Conditions <sup>2</sup> of licence	Justification for additional regulatory controls
Source/Activities	Potential emission	Potential pathways and impact	Receptors	Licence Holder's controls				
<b>Operation</b>								
Increase to Category 12 activities including: <ul style="list-style-type: none"> <li>Crushing and screening of extracted sand and limestone</li> <li>Loading and storage of sand products</li> <li>Vehicle movements</li> </ul>	Dust	Air/windborne pathway causing impacts to health and amenity	Rural homestead 1 Rural homestead 2	Refer to Section 3.1.1	C = Minor L = Unlikely <b>Medium Risk</b>	Y	15	The risk event is considered to have low level impact to amenity and will probably not occur in most circumstances.
	Noise	Air/windborne pathway causing impacts to amenity	Rural homestead 3 Industrial receptor	Refer to Section 3.1.1	C = Slight L = Unlikely <b>Low Risk</b>	Y	N/A – Environmental Protection (Noise) Regulations 1997 apply	The risk event is considered to have minimal impact to amenity and will probably not occur in most circumstances.
	Sediment laden stormwater	Overland runoff potentially causing ecosystem disturbance or impacting surface water quality	DBCA managed offset SCP26a <i>Melaleuca huegelii</i> - <i>Melaleuca systema</i> shrublands on limestone ridges	Refer to Section 3.1.1	C = Major L = Rare <b>Medium Risk</b>	Y	N/A	The risk event is considered to have short-term impact to an area of high conservation value but is only expected to occur in exceptional circumstances.

Note 1: Consequence ratings, likelihood ratings and risk descriptions are detailed in the *Guideline: Risk assessments* (DWER 2020).

Note 2: Proposed Licence Holder's controls are depicted by standard text. **Bold and underline text** depicts additional regulatory controls imposed by department.



## 4. Consultation

Table 5 provides a summary of the consultation undertaken by the department.

**Table 5: Consultation**

Consultation method	Comments received	Department response
<p>Local Government Authority advised of proposal (24 August 2022)</p>	<p>The City of Wanneroo provided the following response on 1 September 2022:</p> <p>The Licence subject to amendment was previously granted to Brodan (WA) Pty Ltd and affects a portion of Lot 6 (86) Wesco Road, Nowergup (subject land). It is also noted that the Licence amendment is to increase the Category 12 production capacity (for screening, etc. of material) from 60,000 tonnes to 200,000 tonnes per annum.</p> <p>The current development approval for Northsands Resources to operate on the subject land was issued by the City on 24 May 2019 and by the WAPC on 5 April 2019 (City ref. DA2017/336). This approval allows activities associated with the carrying out of extractive industry (sand and limestone extraction) and inert landfill.</p> <p>The extractive industry component of this development approval limits extraction rates to 450,000 tonnes per annum and allows the screening of extracted materials.</p>	<p>Noted.</p>
<p>Licence Holder was provided with draft amendment on 3 October 2022</p>	<p>The Licence Holder provided the following response on 13 October 2022:</p> <p>The only concern we have is Category 67A being changed to 61A. We would like 67A to remain on our licence as we blend sands and soils here on occasion to make saleable products. We do get grass and overburden brought in from local landscape jobs, and we store that for a period until it has broken down so we can screen and use it.</p>	<p>The Delegated Officer has noted the comments regarding the occasional blending of soils on the Premises and has resolved to retain Category 67A on the licence.</p>

## 5. Conclusion

Based on the assessment in this Amendment Report, the Delegated Officer has determined that a Revised Licence will be granted, subject to conditions commensurate with the determined controls and necessary for administration and reporting requirements.

### 5.1 Summary of amendments

Table 6 provides a summary of the proposed amendments and will act as record of implemented changes. All proposed changes have been incorporated into the Licence as part of the amendment process.

**Table 6: Summary of licence amendments**

Condition no.	Proposed amendments																		
Front page	The Category 12 assessed production capacity was changed from <i>60,000 tonnes per annual period</i> to <i>200,000 tonnes per annual period</i>																		
<p><u>Revised:</u> 8 – Table 2</p> <p><u>Existing:</u> N/A</p>	<p>In accordance with the current licencing format, a condition and table relating to infrastructure and equipment used for processing waste or controlling and monitoring emissions and discharges was added. The condition reads as follows:</p> <p style="text-align: center;"><i>The licence holder must ensure that the infrastructure and equipment listed in Table 2 and located at the corresponding infrastructure location is maintained and operated in accordance with the corresponding operational requirement set out in Table 2.</i></p> <p>The associated table is structured as follows and has the following requirements, to account for the changed format, additions to the Revised Licence are shown through red text and deletions are shown through red strikethrough text:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;"></th> <th style="width: 25%;">Infrastructure and equipment</th> <th style="width: 50%;">Operational requirement</th> <th style="width: 20%;">Infrastructure location</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1.</td> <td style="text-align: center;">Crushing and screening plant</td> <td style="color: red;">(a) Must only be operated when all material passing through the site infrastructure and equipment is dampened to prevent dust lift off.</td> <td style="text-align: center;">N/A</td> </tr> <tr> <td style="text-align: center;">2.</td> <td style="text-align: center;">Inert Class 1 Landfill Area</td> <td style="color: red;">(a) An undisturbed separation distance of at least 3 m must be maintained between the base of the landfill and the highest level of the groundwater. (b) Vertex points of the designated landfill area must be pegged and maintained as a visual marker of the landfill boundary in accordance with the coordinates defined in Table 8.</td> <td style="color: red; text-align: center;">As defined by the coordinates in Table 8 and displayed in Figure 3</td> </tr> <tr> <td style="text-align: center;">3.</td> <td style="text-align: center;">ASS Receipt Stockpile Area and Treatment Pad</td> <td style="color: red;">(a) Must comprise a hardstand of compacted limestone no less than 300 mm in thickness; (b) Run-off from the hardstand must be contained within a lined retention basin; and (c) Uncontaminated stormwater must be diverted away from organic storage and soil blending areas.</td> <td style="text-align: center;">N/A</td> </tr> </tbody> </table>				Infrastructure and equipment	Operational requirement	Infrastructure location	1.	Crushing and screening plant	(a) Must only be operated when all material passing through the site infrastructure and equipment is dampened to prevent dust lift off.	N/A	2.	Inert Class 1 Landfill Area	(a) An undisturbed separation distance of at least 3 m must be maintained between the base of the landfill and the highest level of the groundwater. (b) Vertex points of the designated landfill area must be pegged and maintained as a visual marker of the landfill boundary in accordance with the coordinates defined in Table 8.	As defined by the coordinates in Table 8 and displayed in Figure 3	3.	ASS Receipt Stockpile Area and Treatment Pad	(a) Must comprise a hardstand of compacted limestone no less than 300 mm in thickness; (b) Run-off from the hardstand must be contained within a lined retention basin; and (c) Uncontaminated stormwater must be diverted away from organic storage and soil blending areas.	N/A
	Infrastructure and equipment	Operational requirement	Infrastructure location																
1.	Crushing and screening plant	(a) Must only be operated when all material passing through the site infrastructure and equipment is dampened to prevent dust lift off.	N/A																
2.	Inert Class 1 Landfill Area	(a) An undisturbed separation distance of at least 3 m must be maintained between the base of the landfill and the highest level of the groundwater. (b) Vertex points of the designated landfill area must be pegged and maintained as a visual marker of the landfill boundary in accordance with the coordinates defined in Table 8.	As defined by the coordinates in Table 8 and displayed in Figure 3																
3.	ASS Receipt Stockpile Area and Treatment Pad	(a) Must comprise a hardstand of compacted limestone no less than 300 mm in thickness; (b) Run-off from the hardstand must be contained within a lined retention basin; and (c) Uncontaminated stormwater must be diverted away from organic storage and soil blending areas.	N/A																

Condition no.	Proposed amendments									
	4.	Fuel hydrocarbon and storage facility	(a) Must be banded to contain at least 110 % of the volume of the largest storage vessel or inter-connected system, and at least 25% of the total volume of substances stored in the facility; (b) The facility floor and bunding must have a permeability of less than $1 \times 10^{-9}$ m/s and be graded or include a sump to allow recovery of liquid; (c) Must be chemically resistant to the substances stored; (d) Must include valves, pumps and meters associated with transfer operations or be adequately protected (e.g. bollards); (e) Must be controlled such that the capacity of the bund is maintained at all times (e.g. regular inspection and pumping of trapped uncontaminated rain water); and (f) Environmentally hazardous chemicals including, but not limited to, fuel, oil or other hydrocarbons (where the total volume of each substance stored on the premises exceeds 250 litres) must be stored within the facility.	Workshop and servicing area as depicted on Figure 2						
	5.	Site security and fencing	(a) A fence of at least 1.8 m high must be erected and maintained around the whole of the boundary of the premises <del>active landfill area, except where there is a lockable gate</del> ; and (b) Entrance gates to the premises must be securely locked when the premises is unattended.	N/A						
	6.	Signage	(a) A sign at the entrance to the premises must be erected and maintained which clearly displays the following: <ul style="list-style-type: none"> <li>(i) hours of operation;</li> <li>(ii) contact telephone number for information and complaints or notification of fires;</li> <li>(iii) a list of materials acceptable for recycling and the location of where they can be deposited on the premises;</li> <li>(iv) the types of waste that must not be deposited on the premises and a contact telephone number for alternative disposal options; and</li> <li>(v) a warning, indicating penalties for people lighting fires;</li> </ul> (b) Clear visible signage must be erected and maintained that specifies "No Asbestos" at the entry to the premises.	N/A						
	7.	Monitoring bores	(a) Must be maintained free from blockages and in good working order to allow representative groundwater samples to be collected.	As depicted on Figure 4						
The condition and table also replace some conditions as discussed in the consolidation section below (Table 7).										
<p><u>Revised:</u> 9 – Table 3</p> <p><u>Existing:</u> N/A</p>	<p>In accordance with the current licencing format, a condition and table relating to waste processing was added. The condition reads as follows:</p> <p><i>The licence holder must ensure that the waste types specified in Table 3 are only subjected to the corresponding processes, subject to the corresponding process limits and/or specifications.</i></p> <p>The associated table is structured as follows and has the following requirements, to account for the changed format, additions to the Revised Licence are shown through red text and deletions are shown through red strikethrough text:</p> <table border="1" data-bbox="432 1868 1390 2018"> <thead> <tr> <th data-bbox="432 1868 504 1924">Waste type</th> <th data-bbox="504 1868 663 1924">Processes</th> <th data-bbox="663 1868 1390 1924">Process limits and/or specifications</th> </tr> </thead> <tbody> <tr> <td data-bbox="432 1924 504 2018">1.</td> <td data-bbox="504 1924 663 2018">Inert Waste Type 1</td> <td data-bbox="663 1924 1390 2018">Acceptance, handling and storage (a) Must not contain any visible asbestos or ACM.</td> </tr> </tbody> </table>				Waste type	Processes	Process limits and/or specifications	1.	Inert Waste Type 1	Acceptance, handling and storage (a) Must not contain any visible asbestos or ACM.
Waste type	Processes	Process limits and/or specifications								
1.	Inert Waste Type 1	Acceptance, handling and storage (a) Must not contain any visible asbestos or ACM.								

Condition no.	Proposed amendments			
	2.		Mechanical treatment via crushing and screening	<ul style="list-style-type: none"> <li>(a) Must not contain any visible asbestos or ACM; and</li> <li>(b) Must be maintained in a damp state during mechanical treatment.</li> </ul>
	3.		Disposal by landfilling	<ul style="list-style-type: none"> <li>(a) <del>Disposal by landfilling must only take place within the Inert Class 1 Landfill Area specified in Table 2</del> <b>dispose of waste on the premises at least 25 metres from the premises boundary;</b></li> <li>(b) Only inert building material shall be disposed via landfilling;</li> <li>(c) The landfill tipping face must be restricted to an area with a maximum linear length of 50 m;</li> <li>(d) Landfilled waste must be: <ul style="list-style-type: none"> <li>(i) placed within a defined trench or within an area enclosed by earthen or other bunds;</li> <li>(ii) deposited and compacted in layers (benches) not exceeding a vertical height of 2 m;</li> <li>(iii) topped with at least 100 mm of sand or limestone aggregate to maintain a trafficable surface for each completed layer; and</li> <li>(iv) covered with a final soil cover layer of at least 1 m.</li> </ul> </li> <li>(e) Waste material with the potential to become windblown or cause dust to cross the premises boundary must be covered at the end of each working day with a minimum 100 mm of <b>Clean Fill or Uncontaminated Fill material</b> <del>clean cover material free from any potential dust nuisance.</del></li> </ul>
	4.	Acid Sulfate Soils (ASS)	Acceptance, handling, storage and treatment via neutralisation	<ul style="list-style-type: none"> <li>(a) Must be stored and processed on the ASS Receipt Stockpile Area and Treatment Pad specified in Table 2 and according to the Acid Sulfate Soil Management Plan;</li> <li>(b) Un-neutralised acid sulfate soil must not be buried in any form of at the premises; and</li> <li>(c) Blending of un-neutralised acid sulfate soil with crushed limestone must only occur in the ASS Receipt Stockpile Area and Treatment Pad specified in Table 2; and</li> <li>(d) Must be neutralised in accordance with the DWER ASS Treatment Guideline.</li> </ul>
	5.		Reuse of neutralised ASS as rehabilitation and cover material	<ul style="list-style-type: none"> <li>(a) Neutralised ASS must not be the main ingredient in the final cover and rehabilitation material; and</li> <li>(b) Final cover and rehabilitation material containing neutralised ASS must not be applied to a depth greater than 2 m.</li> </ul>
	6.	Green Waste	Acceptance, handling, storage and mechanical treatment via shredding, prior to disposal or re-use	<ul style="list-style-type: none"> <li>(a) Unprocessed Green Waste must be stored in windrows that do not exceed the following maximum dimensions: <ul style="list-style-type: none"> <li>(i) 60 m in length;</li> <li>(ii) 8 m in width; and</li> <li>(iii) 4.5 m in height;</li> </ul> </li> <li>(b) Mulched Green Waste must be stored in windrows that do not exceed the following maximum dimensions: <ul style="list-style-type: none"> <li>(i) 60 m in length;</li> <li>(ii) 8 m in width; and</li> <li>(iii) 3.5 m in height; and</li> </ul> </li> <li>(c) Each mulched Green Waste windrow must be aerated on a monthly basis.</li> </ul>

Condition no.	Proposed amendments																																
	7.	Disposal via burning	(a) Must be dry and seasoned for at least two months before burning; (b) Must be: <ul style="list-style-type: none"> <li>(i) burnt in a dedicated area at least 25 m from any premises boundary, <b>waste storage area</b> or active fill area; and</li> <li>(ii) provided with an adequate water supply and distribution system to prevent fires from escaping beyond the area;</li> </ul> (c) Must be burnt in windrows or trenches, in a manner that minimises the generation of smoke; (d) Must be burnt in restricted volumes that will completely burn during daylight hours; (e) Must be attended at all times until the fire is extinguished; and (f) The CEO must be advised by <b>facsimile</b> email at least 24 hours prior to burning commencing.																														
<u>Revised:</u> 28 – Table 5  <u>Existing:</u> 18(a) and (b)	Additional requirements have been added in relation to the reporting of groundwater monitoring data, as the previous requirements were outdated. <table border="1" data-bbox="432 853 1396 1218"> <thead> <tr> <th data-bbox="432 853 647 909">Condition</th> <th data-bbox="647 853 1396 909">Requirement</th> </tr> </thead> <tbody> <tr> <td data-bbox="432 909 647 1218">19</td> <td data-bbox="647 909 1396 1218">               Ambient Groundwater Monitoring for the annual period including:               <ul style="list-style-type: none"> <li>(a) <b>a tabulated summary of results, as well as all raw data provided in an accompanying Microsoft Excel spreadsheet digital document/file (or a compatible equivalent digital document/file);</b></li> <li>(b) an interpretive summary and assessment of results against previous monitoring results;</li> <li>(c) an interpretive summary and assessment of the results against relevant assessment levels for water, as published in the Guideline: Assessment and management of contaminated sites; and</li> <li>(d) <b>the corresponding laboratory certificates of analysis.</b></li> </ul> </td> </tr> </tbody> </table>			Condition	Requirement	19	Ambient Groundwater Monitoring for the annual period including: <ul style="list-style-type: none"> <li>(a) <b>a tabulated summary of results, as well as all raw data provided in an accompanying Microsoft Excel spreadsheet digital document/file (or a compatible equivalent digital document/file);</b></li> <li>(b) an interpretive summary and assessment of results against previous monitoring results;</li> <li>(c) an interpretive summary and assessment of the results against relevant assessment levels for water, as published in the Guideline: Assessment and management of contaminated sites; and</li> <li>(d) <b>the corresponding laboratory certificates of analysis.</b></li> </ul>																										
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19	Ambient Groundwater Monitoring for the annual period including: <ul style="list-style-type: none"> <li>(a) <b>a tabulated summary of results, as well as all raw data provided in an accompanying Microsoft Excel spreadsheet digital document/file (or a compatible equivalent digital document/file);</b></li> <li>(b) an interpretive summary and assessment of results against previous monitoring results;</li> <li>(c) an interpretive summary and assessment of the results against relevant assessment levels for water, as published in the Guideline: Assessment and management of contaminated sites; and</li> <li>(d) <b>the corresponding laboratory certificates of analysis.</b></li> </ul>																																
<u>Revised:</u> Schedule 1  <u>Existing:</u> N/A	A site plan was added to Schedule 1 as Figure 2. A boundary map for the inert landfill area was added to Schedule 1 as Figure 3 A map of the monitoring bore location was added to Schedule 1 as Figure 4																																
<u>Revised:</u> Schedule 2  <u>Existing:</u> N/A	A defined area for the landfill was added to Schedule 2 with the following coordinates: <table border="1" data-bbox="432 1469 1396 2022"> <thead> <tr> <th data-bbox="432 1469 512 1525">Point</th> <th data-bbox="512 1469 967 1525">Easting</th> <th data-bbox="967 1469 1396 1525">Northing</th> </tr> </thead> <tbody> <tr> <td data-bbox="432 1525 512 1581">1.</td> <td data-bbox="512 1525 967 1581">381551.384</td> <td data-bbox="967 1525 1396 1581">6497946.890</td> </tr> <tr> <td data-bbox="432 1581 512 1637">2.</td> <td data-bbox="512 1581 967 1637">381600.557</td> <td data-bbox="967 1581 1396 1637">6497948.738</td> </tr> <tr> <td data-bbox="432 1637 512 1693">3.</td> <td data-bbox="512 1637 967 1693">381625.494</td> <td data-bbox="967 1637 1396 1693">6497943.419</td> </tr> <tr> <td data-bbox="432 1693 512 1749">4.</td> <td data-bbox="512 1693 967 1749">381646.572</td> <td data-bbox="967 1693 1396 1749">6497934.048</td> </tr> <tr> <td data-bbox="432 1749 512 1805">5.</td> <td data-bbox="512 1749 967 1805">381657.575</td> <td data-bbox="967 1749 1396 1805">6497897.700</td> </tr> <tr> <td data-bbox="432 1805 512 1861">6.</td> <td data-bbox="512 1805 967 1861">381675.477</td> <td data-bbox="967 1805 1396 1861">6497880.381</td> </tr> <tr> <td data-bbox="432 1861 512 1917">7.</td> <td data-bbox="512 1861 967 1917">381606.330</td> <td data-bbox="967 1861 1396 1917">6497855.022</td> </tr> <tr> <td data-bbox="432 1917 512 1973">8.</td> <td data-bbox="512 1917 967 1973">381597.337</td> <td data-bbox="967 1917 1396 1973">6497846.916</td> </tr> <tr> <td data-bbox="432 1973 512 2022">9.</td> <td data-bbox="512 1973 967 2022">381587.624</td> <td data-bbox="967 1973 1396 2022">6497830.658</td> </tr> </tbody> </table>			Point	Easting	Northing	1.	381551.384	6497946.890	2.	381600.557	6497948.738	3.	381625.494	6497943.419	4.	381646.572	6497934.048	5.	381657.575	6497897.700	6.	381675.477	6497880.381	7.	381606.330	6497855.022	8.	381597.337	6497846.916	9.	381587.624	6497830.658
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Condition no.	Proposed amendments		
	10.	381585.584	6497822.136
	11.	381563.403	6497794.518
	12.	381545.539	6497795.327
	13.	381537.750	6497902.974
	14.	381522.031	6497934.380
	15.	381515.119	6497950.396
	16.	381522.174	6497955.698

**Table 7: Consolidation of licence conditions in this amendment**

Existing condition	Condition summary	Revised condition	licence	Conversion notes
1(a)	Waste acceptance	1: Table 1		Revised to current licensing format
1(b)	Limiting only inert waste to burial	9: Table 3		Revised to current licensing format
1(c)	Landfilling requirements	9: Table 3		Included in waste processing table
2(a)	Daily cover	9: Table 3		Included in waste processing table
2(b)	Stockpiling of cover material	10		Revised numbering and wording
2(c)	Windblown waste	16		Revised numbering and wording
3	National Waste Classification System	N/A		Redundant condition removed
4(a)	Fencing	8: Table 2		Included in infrastructure and equipment table
4(b)	Signage	8: Table 2		Included in infrastructure and equipment table
5	Buffer distances	11		Revised numbering and wording
6	Complaints	24		Revised to current licensing format
7(a)	Green waste storage requirements	9: Table 3		Included in waste processing table
7(b)				
7(c)				
8(a)	ASS Management Plan	1: Table 1		Waste acceptance specification
		9: Table 3		Waste processing specification
8(b)	ASS storage on hardstand	9: Table 3		Waste processing specification

Existing condition	Condition summary	Revised condition	licence	Conversion notes
		8: Table 2		Hardstand specification in infrastructure and equipment table
8(c)	ASS hardstand bunding	8: Table 2		Included in infrastructure and equipment table
8(d)	Burial of ASS	9: Table 3		Included in waste processing table
8(e)	ASS blending			Included in waste processing table
8(f)	ASS reuse			Included in waste processing table
9(a)(i)	Asbestos risk management	1: Table 1		Included in waste acceptance table
9(a)(ii)		7		Revised to current licensing format
9(a)(iii)		3		Revised to current licensing format
9(a)(iv)				
9(a)(v)		8: Table 2		Included in infrastructure and equipment table
9(a)(vi)		4		Revised to current licensing format
9(a)(vii)		6		Revised to current licensing format
9(a)(viii)		5		Revised to current licensing format
9(a)(ix)		12		Revised to current licensing format
9(a)(x)		13		Revised to current licensing format
9(a)(xi)		14		Revised to current licensing format
9(a)(xii)		13		Revised to current licensing format
9(b)(i)	Asbestos product testing and supply	21		Revised to current licensing format
9(b)(ii)		22		Revised to current licensing format
9(b)(iii)		23		Revised to current licensing format and removed timeframe
10(a)	Dust management	15		Revised to current licensing format
10(b)				
10(c)				
11	Odour management	N/A		Redundant condition removed. Already a requirement of the general provisions of the EP Act
12(a)	No burning of non-green waste	17		Revised numbering and wording

Existing condition	Condition summary	Revised condition	licence	Conversion notes
12(b)	Requirements for burning green waste	9: Table 3		Included in waste processing table
13(a)	Leachate controls	8: Table 2		Included in infrastructure and equipment table
13(b)				
13(c)				
14	Stormwater management	8: Table 2		Included in infrastructure and equipment table
15(a)	Protection of ground and surface water	8: Table 2		Included in infrastructure and equipment table
15(b)				
15(c)		N/A		Redundant condition removed
16(a)	Liquid chemical storage	8: Table 2		Included in infrastructure and equipment table
16(b)				
17(a)	Groundwater monitoring	18: Table 4		Revised to current licensing format
17(b)				
17(c)		20		Revised to current licensing format
17(d)		N/A		Redundant conditions removed
17(e)				
18(a)	Environmental Report	28: Table 5		Revised to current licensing format and incorporating change to reporting dates amendment notice
18(b)				
18(c)				
18(d)				
19	AACR	27		



## References

1. Coterra Environment (Coterra) 2018, *Extractive Industry Licence Application: Lot 6 Wesco Road, Nowergup Rev 1, October 2018*, Unpublished report.
2. Department of Environment Regulation (DER) 2015, *Guidance Statement: Setting Conditions*, Perth, Western Australia.
3. Department of Water and Environmental Regulation (DWER) 2020, *Guideline: Environmental Siting*, Perth, Western Australia.
4. DWER 2020, *Guideline: Risk Assessments*, Perth, Western Australia.

## Appendix 1: Application validation summary

SECTION 1: APPLICATION SUMMARY (as updated from validation checklist)					
<b>Application type</b>					
Works approval	<input type="checkbox"/>				
Licence	<input type="checkbox"/>	Relevant works approval number:		None <input type="checkbox"/>	
		Has the works approval been complied with?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
		Has time limited operations under the works approval demonstrated acceptable operations?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
		Environmental Compliance Report / Critical Containment Infrastructure Report submitted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
		Date Report received:			
Renewal	<input type="checkbox"/>	Current licence number:			
Amendment to works approval	<input type="checkbox"/>	Current works approval number:			
Amendment to licence	<input checked="" type="checkbox"/>	Current licence number:	L7782/2002/6		
		Relevant works approval number:		N/A <input type="checkbox"/>	
Registration	<input type="checkbox"/>	Current works approval number:		None <input type="checkbox"/>	
Date application received	28 July 2022				
<b>Applicant and Premises details</b>					
Applicant name/s (full legal name/s)	Brodan (WA) Pty Ltd				
Premises name	Northsands Resources				
Premises location	Part of Lot 6 on Diagram 34734 Wesco Road NOWERGUP WA 6032				
Local Government Authority	City of Wanneroo				
<b>Application documents</b>					
HPCM file reference number:	DWERDT637202				
Key application documents (additional to application form):	Dust Management Plan September 2021 Noise Assessment Report 2019 Landfill boundary aerial markup 2014 Cat 70 application Existing information on file - DWERDT584882 DA and extractive industry licence application				
<b>Scope of application/assessment</b>					
Summary of proposed activities or changes to existing operations.	<p><b><u>Licence amendment</u></b></p> <p>Increase of Category 12 capacity from 60,000 tonnes per annual period to 200,000 tonnes per annual period.</p> <p>Increased demand for sand resources has resulted in more material being extracted and screened at the premises. Operations have occurred above the approved licence capacity for a number of years. The licence was intended to be amended in 2014, however this did not occur due to an administrative error and uncertainties regarding planning approvals.</p>				

**Category number/s (activities that cause the premises to become prescribed premises)**

**Table 1: Prescribed premises categories**

Prescribed premises category and description	Assessed production or design capacity	Proposed changes to the production or design capacity (amendments only)
Category 12: Screening etc. of material	60,000	200,000
Category 13: Crushing of building material	45,000	No change
Category 62: Solid waste depot	5,000	No change
Category 63: Class I inert landfill site	20,000	No change
Category 67A: Compost manufacturing and soil blending	60,000	No change

**Legislative context and other approvals**

Has the applicant referred, or do they intend to refer, their proposal to the EPA under Part IV of the EP Act as a significant proposal?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Referral decision No: Managed under Part V <input type="checkbox"/> Assessed under Part IV <input type="checkbox"/>
Does the applicant hold any existing Part IV Ministerial Statements relevant to the application?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Ministerial statement No: EPA Report No:
Has the proposal been referred and/or assessed under the EPBC Act?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Reference No:
Has the applicant demonstrated occupancy (proof of occupier status)?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Certificate of title <input type="checkbox"/> General lease <input checked="" type="checkbox"/> Previously provided with May 2022 amendment Mining lease / tenement <input type="checkbox"/> Expiry: Other evidence <input type="checkbox"/> Expiry:
Has the applicant obtained all relevant planning approvals?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Previously provided with May 2022 amendment
Has the applicant applied for, or have an existing EP Act clearing permit in relation to this proposal?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	CPS No: N/A No clearing is proposed.
Has the applicant applied for, or have an existing CAWS Act clearing licence in relation to this proposal?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Application reference No: N/A Licence/permit No: N/A No clearing is proposed.
Has the applicant applied for, or have an existing RIWI Act licence or permit in relation to this proposal?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Application reference No: Licence/permit No: GWL153681

<p>Does the proposal involve a discharge of waste into a designated area (as defined in section 57 of the EP Act)?</p>	<p>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>	<p>Name: N/A  Type: N/A  Has Regulatory Services (Water) been consulted?  Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>  Regional office: N/A</p>
<p>Is the Premises situated in a Public Drinking Water Source Area (PDWSA)?</p>	<p>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>	<p>Name: N/A  Priority: N/A  Are the proposed activities/ landuse compatible with the PDWSA (refer to <a href="#">WQPN 25</a>)?  Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/></p>
<p>Is the Premises subject to any other Acts or subsidiary regulations (e.g. <i>Dangerous Goods Safety Act 2004</i>, <i>Environmental Protection (Controlled Waste) Regulations 2004</i>, <i>State Agreement Act xxxx</i>)</p>	<p>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>	
<p>Is the Premises within an Environmental Protection Policy (EPP) Area?</p>	<p>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>	
<p>Is the Premises subject to any EPP requirements?</p>	<p>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>	
<p>Is the Premises a known or suspected contaminated site under the <i>Contaminated Sites Act 2003</i>?</p>	<p>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>	<p>Classification: N/A  Date of classification: N/A</p>