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Published on: 7 June 2016

Statement No. 1030

**STATEMENT THAT A PROPOSAL MAY BE IMPLEMENTED**  
**(*Environmental Protection Act 1986*)**

**YOONGARILLUP MINERAL SANDS PROJECT**

**Proposal:** The proposal is to develop, mine, rehabilitate and decommission the Yoongarillup Mineral Sands Project. The proposal is located approximately 17 kilometres south east of Busselton. The proposal includes the construction of associated mine infrastructure (offices, workshops, laydown area, roads, and ore processing facilities), the backfilling of mined pits and the rehabilitation and decommissioning of disturbed areas.

**Proponent:** Doral Mineral Sands Pty Ltd  
Australian Company Number 096 342 451

**Proponent Address:** Lot 7 Harris Road, Picton WA 6229

**Assessment Number:** 1938

**Report of the Environmental Protection Authority:** 1552

Pursuant to section 45 of the *Environmental Protection Act 1986* it has been agreed that the proposal described and documented in Table 1 and 2 of Schedule 1 may be implemented and that the implementation of the proposal is subject to the following implementation conditions and procedures:

Words and expressions used in this Statement shall have the same respective meanings as in the Act or as provided for in Schedule 1 of this Statement.

**1 Proposal Implementation**

1-1 When implementing the proposal, the proponent shall not exceed the authorised extent of the proposal as defined in Table 2 in Schedule 1, unless amendments to the proposal and the authorised extent of the proposal have been approved under the EP Act.

## **2 Contact Details**

- 2-1 The proponent shall notify the CEO of any change of its name, physical address or postal address for the serving of notices or other correspondence within twenty eight (28) days of such change. Where the proponent is a corporation or an association of persons, whether incorporated or not, the postal address is that of the principal place of business or of the principal office in the State.

## **3 Time Limit for Proposal Implementation**

- 3-1 The proponent shall not commence implementation of the proposal after five (5) years from the date on this Statement, and any commencement, prior to this date, must be substantial.
- 3-2 Any commencement of implementation of the proposal, on or before five (5) years from the date of this Statement, must be demonstrated as substantial by providing the CEO with written evidence, on or before the expiration of five (5) years from the date of this Statement.

## **4 Compliance Reporting**

- 4-1 The proponent shall prepare, submit and maintain a Compliance Assessment Plan to the CEO at least six (6) months prior to the first Compliance Assessment Report required by condition 4-6, or prior to implementation, whichever is sooner.
- 4-2 The Compliance Assessment Plan shall indicate:
- (1) the frequency of compliance reporting;
  - (2) the approach and timing of compliance assessments;
  - (3) the retention of compliance assessments;
  - (4) the method of reporting of potential non-compliances and corrective actions taken;
  - (5) the table of contents of Compliance Assessment Reports; and
  - (6) public availability of Compliance Assessment Reports.
- 4-3 After receiving notice in writing from the CEO that the Compliance Assessment Plan satisfies the requirements of condition 4-2 the proponent shall assess compliance with conditions in accordance with the Compliance Assessment Plan required by condition 4-1.

- 4-4 The proponent shall retain reports of all compliance assessments described in the Compliance Assessment Plan required by condition 4-1 and shall make those reports available when requested by the CEO.
- 4-5 The proponent shall advise the CEO of any potential non-compliance within seven (7) days of that non-compliance being known.
- 4-6 The proponent shall submit to the CEO the first Compliance Assessment Report fifteen (15) months from the date of issue of this Statement addressing the twelve (12) month period from the date of issue of this Statement and then annually from the date of submission of the first Compliance Assessment Report, or as otherwise agreed in writing by the CEO.

The Compliance Assessment Report shall:

- (1) be endorsed by the proponent's Chief Executive Officer or a person delegated to sign on the Chief Executive Officer's behalf;
- (2) include a statement as to whether the proponent has complied with the conditions;
- (3) identify all potential non-compliances and describe corrective and preventative actions taken;
- (4) be made publicly available in accordance with the approved Compliance Assessment Plan; and
- (5) indicate any proposed changes to the Compliance Assessment Plan required by condition 4-1.

## **5 Public Availability of Data and Plans**

- 5-1 Subject to condition 5-2, within a reasonable time period approved by the CEO of the issue of this Statement and for the remainder of the life of the proposal the proponent shall make publicly available, in a manner approved by the CEO, all validated environmental data and plans (including sampling design, sampling methodologies, empirical data and derived information products (e.g. maps)) relevant to the assessment of this proposal and implementation of this Statement.
- 5-2 If any data or parts of plans referred to in condition 5-1 contains particulars of:
  - (1) a secret formula or process; or
  - (2) confidential commercially sensitive information;

the proponent may submit a request for approval from the CEO to not make these data or parts of plans publicly available. In making such a request the

proponent shall provide the CEO with an explanation and reasons why the data or parts of plans should not be made publicly available.

## **6 Flora and Vegetation**

- 6-1 The proponent shall ensure that the proposal does not result in any loss of native vegetation beyond the boundary of Area A as shown in Figure 3 and delineated by the co-ordinates specified in Table 5 of Schedule 2.
- 6-2 Prior to ground disturbing activities the proponent shall prepare a Flora and Vegetation Monitoring Plan in consultation with the Department of Parks and Wildlife and the Department of Water, and submit the plan to the CEO. The Flora and Vegetation Monitoring Plan shall:
- (1) when implemented, substantiate and ensure that condition 6-1 is being met;
  - (2) identify and spatially define reference sites including the scientific rationale for the proposed locations;
  - (3) include baseline vegetation health and abundance parameters;
  - (4) detail the proposed vegetation health (including impact from changes in groundwater level) monitoring methodology;
  - (5) detail the proposed frequency and timing of monitoring;
  - (6) specify criteria (trigger criteria) that will trigger the implementation of management and/or contingency actions to prevent loss of vegetation outside Area A; and
  - (7) specify management and/or contingency actions to be implemented in the event that the trigger criteria required by condition 6-2(6) have been reached.
- 6-3 After receiving notice in writing from the CEO, that the Flora and Vegetation Monitoring Plan satisfies the requirements of condition 6-2, the proponent shall:
- (1) monitor in accordance with the requirements of the Flora and Vegetation Monitoring Plan; and
  - (2) continue to monitor in accordance with the requirements of the Flora and Vegetation Monitoring Plan until the CEO has confirmed, on the advice of the Department of Parks and Wildlife and the Department of Water, by notice in writing that it has been demonstrated that the outcome in condition 6-1 is being and will continue to be met and therefore monitoring is no longer required.
- 6-4 In the event that the monitoring indicates that the trigger criteria specified in the Flora and Vegetation Monitoring Plan have been reached the proponent shall:
- (1) immediately implement the management and/or contingency actions specified in the Flora and Vegetation Monitoring Plan on advice from

the Department of Parks and Wildlife and the Department of Water and continue implementation of those actions until the trigger criteria are being met, or until the CEO has confirmed by notice in writing that it has been demonstrated that the outcome in condition 6-1 is being, and will continue to be met, and implementation of the management and/or contingency actions is no longer required;

- (2) investigate to determine the likely cause of the trigger criteria being reached, and to identify any additional contingency actions required to prevent the trigger criteria being reached in the future; and
- (3) provide a report to the CEO within 7 days of an event referred to in condition 6-4 occurring. The report shall include:
  - (a) details of management and/or contingency actions implemented; and
  - (b) the findings of the investigation required by condition 6-4(2).

6-5 The proponent may review and revise the Flora and Vegetation Monitoring Plan, in consultation with the Department of Parks and Wildlife and the Department of Water.

6-6 The proponent shall review and revise the Flora and Vegetation Monitoring Plan as and when directed by the CEO.

6-7 The proponent shall implement the latest revision of the Flora and Vegetation Monitoring Plan in consultation with the Department of Parks and Wildlife and the Department of Water, which the CEO has confirmed, by notice in writing, satisfies the requirements of condition 6-2.

## **7 State Forest – Area A**

7-1 The proponent shall ensure that Area A, as shown in Figure 3 and delineated by the co-ordinates specified in Table 5 of Schedule 2, is decommissioned and rehabilitated to support functional landforms, soil profile, ground and surface water systems and ecological communities, that are suitable for continued use of this area as State forest.

7-2 Prior to ground disturbing activities the proponent shall prepare a State Forest – Area A Management Plan in consultation with the Department of Parks and Wildlife, and submit this plan to the CEO. The Management Plan shall:

- (1) ensure that clearing and mining of the Area A is undertaken in stages to ensure progressive rehabilitation;
- (2) ensure that if clearing is to be undertaken, the proponent shall thoroughly inspect the area for Black Cockatoo breeding activity, in particular nesting, and if the area is found to be in use, clearing in the area shall be postponed until such time as determined suitable, on the advice of the Department of Parks and Wildlife;
- (3) ensure that if clearing is to be undertaken, a qualified terrestrial native fauna spotter shall thoroughly inspect the area for the presence of conservation significant fauna, and implement suitable mitigation

measures for each species, which may include retrieval and translocation, on the advice of the Department of Parks and Wildlife;

- (4) ensure that the topsoil removed from Area A is stored only within Area A, and is stored for a maximum of 18 months;
- (5) specify the fencing and access requirements to Area A;
- (6) specify the method of clearing vegetation, including the retention of any vegetative material for rehabilitation within Area A;
- (7) specify the topsoil removal, storage (location and time), and respreading procedures within Area A;
- (8) specify the timing of mining, and return of soil profile and landforms;
- (9) specify measures, including the timing of operations, to prevent weeds and dieback from establishing in Area A;
- (10) specify the placement of mining infrastructure to ensure that progressive rehabilitation can occur;
- (11) specify measurable, achievable, realistic and timing specific completion criteria, to ensure the management objective in condition 7-1 is achieved;
- (12) specify the monitoring program to report on completion criteria progress;
- (13) specify any other management actions that will be implemented to ensure the management objective in condition 7-1 is achieved; and
- (14) be consistent with the Department of Mines and Petroleum and EPA Guidelines for Preparing Mine Closure Plans.

7-3 After receiving notice in writing from the CEO that the State Forest – Area A Management Plan satisfies the requirements of condition 7-2, the proponent shall:

- (1) implement the management actions and monitor in accordance with the requirements of the State Forest – Area A Management Plan; and
- (2) continue to implement the State Forest – Area A Management Plan until the CEO has confirmed by notice in writing that it has been demonstrated that the objective in condition 7-1 has been met and therefore the implementation of the management actions and monitoring is no longer required.

7-4 The proponent may review and revise the State Forest – Area A Management Plan, in consultation with the Department of Parks and Wildlife.

7-5 The proponent shall review and revise the State Forest – Area A Management Plan as and when directed by the CEO.

- 7-6 The proponent shall implement the latest revision of the State Forest – Area A Management Plan, in consultation with the Department of Parks and Wildlife, which the CEO has confirmed by notice in writing, satisfies the requirements of condition 7-2.

## **8 Offsets**

- 8-1 The proponent shall undertake an offset, as outlined in conditions 8-2 to 8-3, with the objective of counterbalancing the significant residual impact to 8.9 hectares of Whicher Scarp Forest Ecosystem, including impacts to foraging and breeding habitat for *Calyptorhynchus banksii naso* (Forest Red-tailed Black-Cockatoo), *Calyptorhynchus baudinii* (Baudin's Black-Cockatoo) and *Calyptorhynchus latirostris* (Carnaby's Black-Cockatoo), the Declared Rare Flora *Davesia elongata* subsp. *elongata*, Whicher Scarp Floristic Community Type C1 (FCT C1) Priority Ecological Community (PEC) and the high diversity community of the Whicher Scarp Forest Ecosystem as a result of implementation of the proposal.
- 8-2 Prior to ground disturbing activities, the proponent shall prepare a Land Acquisition and Management Plan, in consultation with the Department of Parks and Wildlife, and submit the plan to the CEO. The Land Acquisition and Management Plan shall:
- (1) identify an area of at least 19 hectares to be protected and managed for conservation;
  - (2) identify the environmental attributes of the area(s) to be acquired which must:
    - a) contain known foraging and breeding habitat for *Calyptorhynchus banksii naso* (Forest Red-tailed Black-Cockatoo), *Calyptorhynchus baudinii* (Baudin's Black-Cockatoo) and *Calyptorhynchus latirostris* (Carnaby's Black-Cockatoo).
    - b) have native forest ecosystem values (including condition attributes) similar to those being impacted by the proposal;
    - c) include no more than 3 hectares of cleared land for revegetation; and
    - d) be located on the Whicher Scarp Native Forest Ecosystem, unless otherwise agreed by the CEO.
  - (3) if any of the vegetation in the area(s) identified is in a degraded condition, or if any area is cleared and identified for revegetation:
    - a) outline the objectives and targets to be achieved, including completion criteria and timeframes for completion;
    - b) identify improvement actions and a timeframe for the actions to be undertaken to improve the condition of native vegetation, in that area;

- c) detail the on-ground activities that will be undertaken, with associated completion criteria;
    - d) detail the funding arrangements and timing of funding for activities; and
    - e) detail the monitoring requirements for offset activities.
  - (4) identify the role of the proponent and detail any agreements with third parties; and
  - (5) identify the mechanism by which the land will be provided for management under the *Conservation and Land Management Act 1984*, and timeframes for this to occur.
- 8-3 After receiving notice in writing, on the advice of the Department of Parks and Wildlife, from the CEO that the Land Acquisition and Management Plan satisfies the requirements of condition 8-2, the proponent shall:
- (1) implement the actions in accordance with the requirements of the approved Land Acquisition and Management Plan; and
  - (2) continue to implement the approved Land Acquisition and Management Plan until the CEO has confirmed, on the advice of the Department of Parks and Wildlife, by notice in writing that it has been demonstrated that the completion criteria in the Land Acquisition and Management Plan have been met, and therefore the implementation of the actions is no longer required.
- 8-4 The proponent may review and revise the Land Acquisition and Management Plan, in consultation with the Department of Parks and Wildlife.
- 8-5 The proponent shall review and revise the Land Acquisition and Management Plan as and when directed by the CEO.
- 8-6 The proponent shall implement the latest revision of the Land Acquisition and Management Plan, which the CEO has confirmed by notice in writing, satisfies the requirements of condition 8-2.
- 8-7 The Land Acquisition and Management Plan required by condition 8-2 shall be made publicly available once approved by the CEO.

[Signed 7 June 2016]

ALBERT JACOB MLA  
**MINISTER FOR ENVIRONMENT; HERITAGE**



Table 1: Summary of the Proposal

<b>Proposal Title</b>	Yoongarillup Mineral Sands Project
<b>Short Description</b>	The proposal is to develop, mine, rehabilitate and decommission the Yoongarillup Mineral Sands Project. The proposal is located approximately 17 kilometres southeast of Busselton (Figure 1). The life of mine is expected to be three years, including an initial pre-mine development phase, mining and onsite processing to produce heavy mineral concentrate, backfilling of mine pits, rehabilitation and decommissioning. The pre mining development phase includes the construction of associated mine infrastructure (offices, workshops, laydown area, roads, and ore processing facilities).

Table 2: Location and authorised extent of physical and operational elements

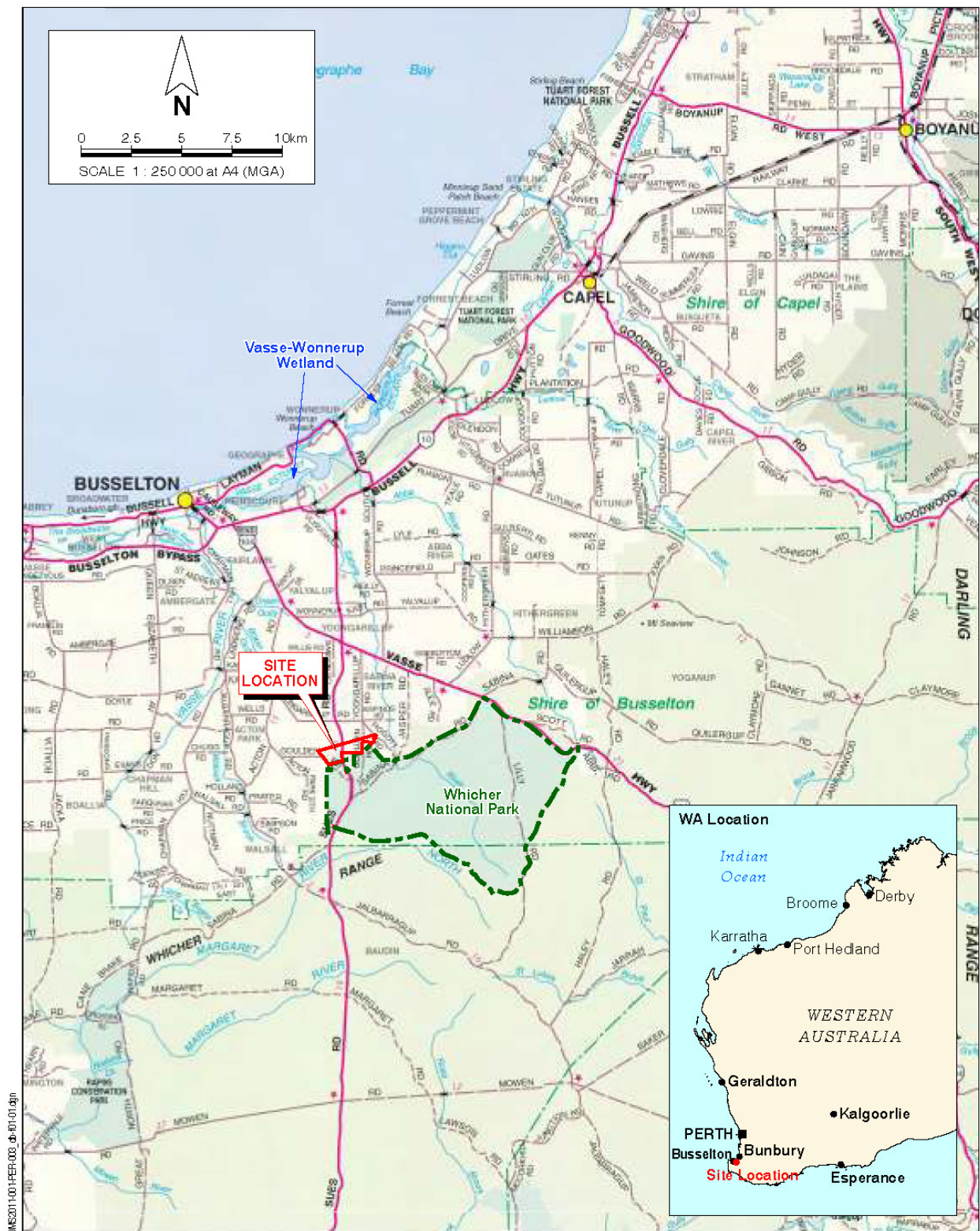
Element	Location	Authorised Extent
Mine Pits and additional disturbance (Indicative)	Figures 2 and 3 and Geographic coordinates as described in Schedule 2	Within a 152 hectare development envelope: <ul style="list-style-type: none"> <li>clearing of no more than 8.9 hectares of native vegetation within Area A; and</li> <li>an additional disturbance of no more than 88 hectares.</li> </ul>
Area A	Figure 3	Within a 152 hectare development envelope: <ul style="list-style-type: none"> <li>clearing of no more than 8.9 hectares.</li> </ul>
Life of Mine	Figure 2	Three years
Groundwater abstraction	Located within the Project Area as shown in Figure 3	Abstraction of up to 1.6 gigalitres per annum of groundwater for: <ul style="list-style-type: none"> <li>dewatering purposes (from the superficial aquifer); and</li> <li>mine water supply (from the Yarragadee aquifer).</li> </ul>

Table 3: Abbreviations and Definitions

Acronym or Abbreviation	Definition or Term
CEO	The Chief Executive Officer of the Department of the Public Service of the State responsible for the administration of section 48 of the <i>Environmental Protection Act 1986</i> , or his delegate.
EPA	Environmental Protection Authority
EP Act	<i>Environmental Protection Act 1986</i>
OEPA	Office of the Environmental Protection Authority

## **Figures**

- Figure 1     Proposal Location.
- Figure 2     Development envelope with conceptual mine layout (This figure is a representation of the coordinates shown in Table 4 of Schedule 2).
- Figure 3     Location of Area A (This figure is a representation of the coordinates shown in Table 5 of Schedule 2).

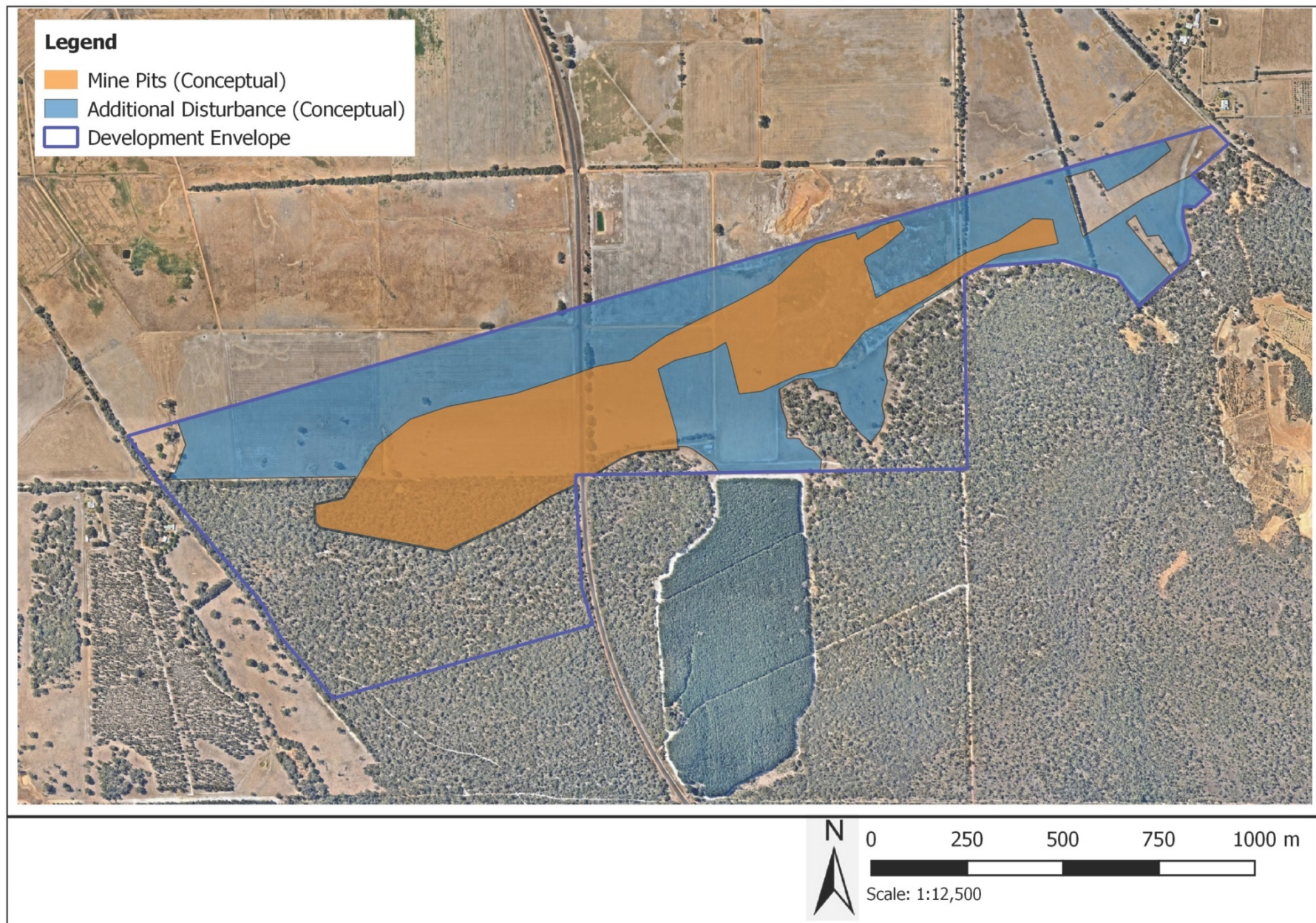


	Regional Location		
	Scale: 1:250 000	Projection: Australia MGA94 (50)	Sheet Size: A4
	Figure 1-1		Date: 28/04/2014

Public Environmental Review  
Proposed Yoongarillup Mineral Sands Project

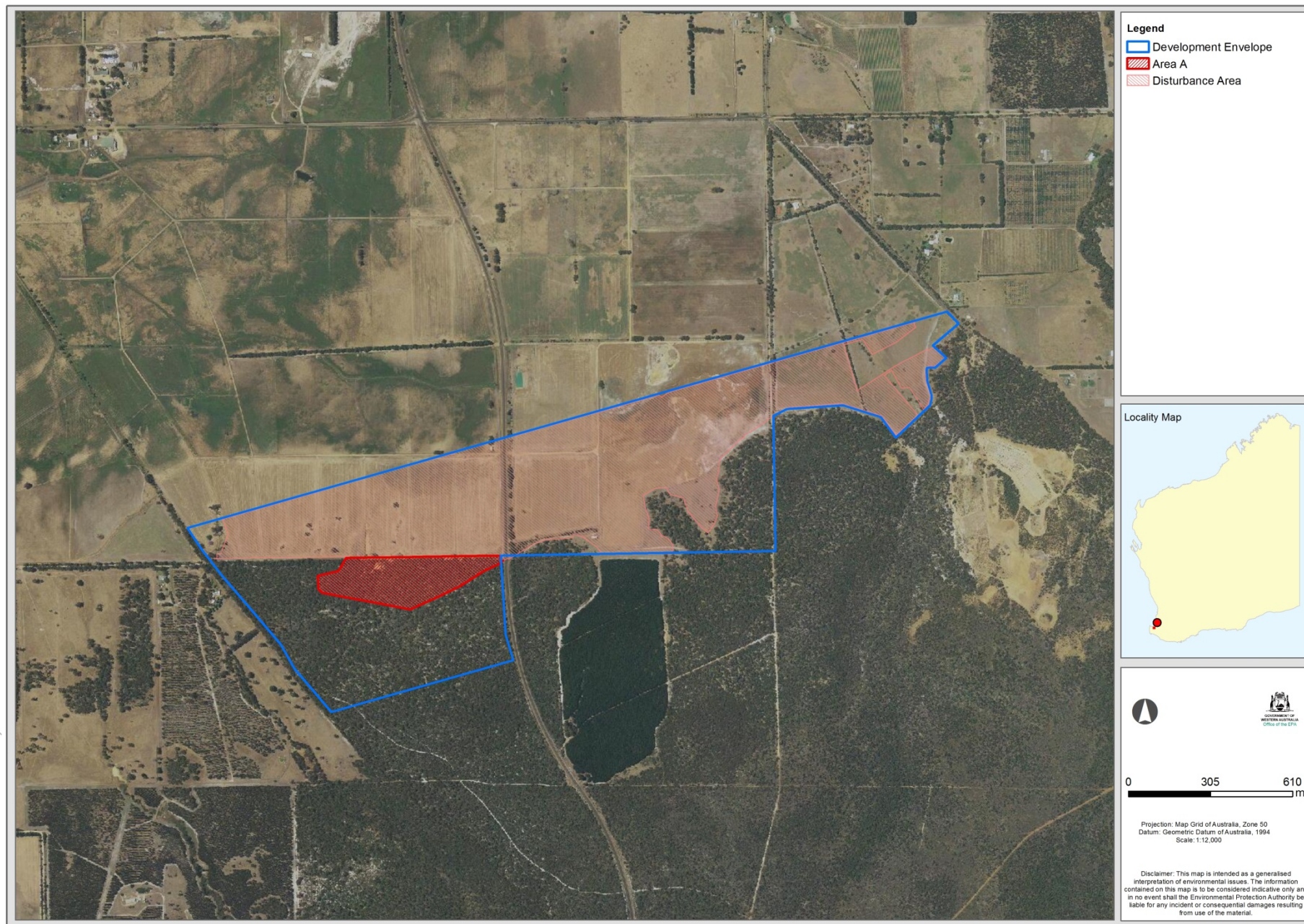
Figure 1: Regional Location





**Figure 2: Development envelope with conceptual mine and associated infrastructure layout**





**Figure 3: Location of Area A**

## Schedule 2

**Table 4: Development Envelope Coordinates (MGA Zone 50)**

Coordinate No	Easting	Northing
1	352766.34	6262979.48
2	355592.10	6263785.52
3	355635.24	6263740.67
4	355539.97	6263659.04
5	355589.08	6263613.32
6	355547.59	6263576.07
7	355528.97	6263577.76
8	355517.11	6263575.22
9	355516.27	6263565.91
10	355519.65	6263525.27
11	355527.40	6263499.17
12	355534.89	6263475.31
13	355534.05	6263459.22
14	355529.05	6263436.93
15	355401.64	6263316.49
16	355346.09	6263392.34
17	355204.69	6263436.36
18	355003.86	6263422.95
19	354994.34	6263421.04
20	354946.24	6263396.92
21	354954.69	6262894.00
22	353931.64	6262877.33
23	353943.70	6262687.65
24	353950.17	6262583.17
25	353978.75	6262487.67
26	353301.92	6262295.07
27	353163.85	6262456.47
28	353113.77	6262545.97
29	353023.37	6262652.18
30	352895.34	6262802.59
31	352823.56	6262894.24
32	352786.23	6262949.84
33	352766.34	6262979.48

**Table: 5 Area A Coordinates (MGA Zone 50)**

Coordinate No	Easting	Northing
1	353941.2	6262858
2	353933.4	6262855
3	353933.4	6262855
4	353933.7	6262849
5	353869	6262819
6	353781.7	6262764
7	353709.2	6262728
8	353601.7	6262679
9	353596.7	6262676
10	353468.8	6262701
11	353370.4	6262719
12	353354.3	6262721
13	353354.1	6262721
14	353351.9	6262722
15	353268.2	6262738
16	353253.4	6262752
17	353250.6	6262802
18	353257.9	6262804
19	353328.1	6262820
20	353329.6	6262822
21	353346	6262849
22	353357.6	6262868
23	353363.2	6262868
24	353425.5	6262869
25	353597.6	6262872
26	353676.9	6262873
27	353704	6262874
28	353832.3	6262876
29	353928.4	6262877
30	353933	6262858
31	353941.2	6262858

All coordinates are in metres, listed in Map Grid of Australia Zone 50 (MGA Zone 50), datum of Geocentric Datum of Australia 1994 (GDA94).

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## Attachment 1 to Ministerial Statement 1030

### Change to proposal approved under section 45C of the *Environmental Protection Act 1986*

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This Attachment replaces Schedule 1 of Ministerial Statement 1030

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**Proposal:** Yoongarillup Mineral Sands Project

**Proponent:** Doral Mineral Sands Pty Ltd

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**Change:** Increase the Life of Mine from three to four years

**Table 1: Summary of the Proposal**

<b>Proposal Title</b>	Yoongarillup Mineral Sands Project
<b>Short Description</b>	The proposal is to develop, mine, rehabilitate and decommission the Yoongarillup Mineral Sands Project. The proposal is located approximately 17 kilometres southeast of Busselton (Figure 1). The life of mine is expected to be three years, including an initial pre-mine development phase, mining and onsite processing to produce heavy mineral concentrate, backfilling of mine pits, rehabilitation and decommissioning. The pre mining development phase includes the construction of associated mine infrastructure (offices, workshops, laydown area, roads, and ore processing facilities).

**Table 2: Location and authorised extent of physical and operational elements**

<b>Element</b>	<b>Location</b>	<b>Previously Authorised Extent</b>	<b>Authorised Extent</b>
Mine Pits and additional disturbance (Indicative)	Figures 2 and 3 and Geographic coordinates as described in Schedule 2	Within a 152 hectare development envelope: <ul style="list-style-type: none"><li>• clearing of no more than 8.9 hectares of native vegetation within Area A; and</li><li>• an additional disturbance of no more than 88 hectares.</li></ul>	Within a 152 hectare development envelope: <ul style="list-style-type: none"><li>• clearing of no more than 8.9 hectares of native vegetation within Area A; and</li><li>• an additional disturbance of no more than 88 hectares.</li></ul>
Area A	Figure 3	Within a 152 hectare development envelope: <ul style="list-style-type: none"><li>• clearing of no more than 8.9 hectares.</li></ul>	Within a 152 hectare development envelope: <ul style="list-style-type: none"><li>• clearing of no more than 8.9 hectares.</li></ul>



Life of Mine	Figure 2	Three years	<b>Four years</b>
Groundwater abstraction	Located within the Project Area as shown in Figure 3	Abstraction of up to 1.6 giganlitres per annum of groundwater for: • dewatering purposes (from the superficial aquifer); and • mine water supply (from the Yarragadee aquifer).	Abstraction of up to 1.6 giganlitres per annum of groundwater for: • dewatering purposes (from the superficial aquifer); and • mine water supply (from the Yarragadee aquifer).

Note: Text in **bold** in Table 2 indicates a change to the proposal.

**Table 3: Abbreviations and Definitions**

Acronym or Abbreviation	Definition or Term
CEO	The Chief Executive Officer of the Department of the Public Service of the State responsible for the administration of section 48 of the <i>Environmental Protection Act 1986</i> , or his delegate.
EPA	Environmental Protection Authority
EP Act	<i>Environmental Protection Act 1986</i>
OEPA	Office of the Environmental Protection Authority

### Figures

Figure 1	Proposal Location.
Figure 2	Development envelope with conceptual mine layout (This figure is a representation of the coordinates shown in Table 4 of Schedule 2).
Figure 3	Location of Area A (This figure is a representation of the coordinates shown in Table 5 of Schedule 2).

[Signed 10 December 2019]

**Dr Tom Hatton**

CHAIRMAN

Environmental Protection Authority  
under delegated authority