Government of **Western Australia**
Department of **Mines and Petroleum**

ENVIRONMENT DIVISION

ONLINE APPLICATION DATE RECEIVED: *06-Jul-15*

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Operator Reference:

PROGRAMME OF WORK - EXPLORATION (*MINING ACT 1978*)

Applicant/Company Name: HOLCIM (AUSTRALIA) PTY LTD		**Contact Person: Miss. Joanna Russell**
Address:	**U 1 18 BRODIE-HALL DR, AUSTRALIA BENTLEY WA 6102**	**Position: Senior Planning and Environment Coordinator**
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Tenement Details

Tenement No/s.	**Registered Holder?**	***Holder (Name and Address)***	**Holder Agreement File Name**	**Tenure Types***
M 70/1250	Yes	*HOLCIM (AUSTRALIA) PTY LTD* *C/- AUSTWIDE MINING TITLE MANAGEMENT PTY LTD* *PO BOX 1434* *WANGARA WA 6947*		**UCL/VCL** **Reserves** The tenements are located within State Forest 65, however it is located within the Gnangara Pine Plantation which has been progressively cleared since 2006.
M 70/1248	Yes	*HOLCIM (AUSTRALIA) PTY LTD* *C/- AUSTWIDE MINING TITLE MANAGEMENT PTY LTD* *PO BOX 1434* *WANGARA WA 6947*		**UCL/VCL** **Reserves** The tenements are located within State Forest 65, however it is located within the Gnangara Pine Plantation which has been progressively cleared since 2006.

**Landowner consent and Surface Rights are required (Section 29, Mining Act). Please check your tenement conditions.*
⌂Ground disturbing activities within Reserves (e.g. Water Reserves, Road Reserves) may require consent from the vested authority, and/or Ministerial consent. Please check your tenement conditions.

Please note the following:

- Please ensure your PoW is complete and that you have checked and complied with tenement conditions prior to lodging your PoW with the Department of Mines and Petroleum (DMP). **Incomplete applications will be rejected.**
- **Requests** for further information will have a time limit of **10 working days** to **respond to the Department**.
- **All bond requests will remain valid for a period of 3 months**. This PoW will be rejected 3 months after the date of issue of the bond request letter.
- Please allow sufficient time for this proposal to be assessed (at least 30 business days). If all required information is not supplied, or if consultation with other agencies is required, then the assessment time frame may increase.
- The *Mines Safety and Inspections Act 1994* requires an Exploration Operation Notification form to be submitted to Resources Safety Division of DMP prior to the proposed activities (see section 6) taking place. http://www.dmp.wa.gov.au/6711.aspx#7074
- DMP have a Memorandum of Understanding (MoU) with the EPA, certain criteria may trigger DMP to seek advice from other agencies. The MoU document is available at: http://www.dmp.wa.gov.au/documents/MOU.PDF
- Please do not modify this form.
- This application will be made available to other government agencies as required.

1. Tenement Conditions

☐ If exploring for Iron Ore, have you checked your conditions to see if you have Iron Ore endorsement?

☑ I have addressed all relevant tenement conditions for this Programme of Work application.

2. Proposed Dates

Approval will be valid for 48 months from date on Approval letter*

Commencement Date: 14-Sep-15	**Completion Date:** 31-Dec-15

** "If approved, the programme will be granted for 48 months from the date shown on the approval letter. Application for an extension to timeframe can be made to an Environmental Officer prior to the expiry of the approval. A PoW is only valid on live tenure. Rehabilitation is to be undertaken within 6 months of the date the ground disturbance occurred to comply with tenement conditions. Justified extensions require written approval from DMP.*

3. Aboriginal Heritage Management

☑ I have completed a query of the Register of Aboriginal Sites at http://www.daa.wa.gov.au for the area subject to this application.

The Programme, if approved, does not remove the need to obtain any approvals required under the *Aboriginal Heritage Act 1972*

☐ The proposal partly or wholly intersects the boundary of a registered site.

☑ Consultation has commenced with the Department of Aboriginal Affairs (DAA).*

Further referrals may be required under the *Environmental Protection Act 1986*.

** To facilitate consultation, DAA will require (i) a description and map (GDA94 co-ordinates) showing the proposed activities and the affected mining tenements, (ii) the title, author and date of any Aboriginal heritage survey conducted over the area, and (iii) a copy of this survey if not already provided to DAA.*

4. Minerals Being Explored

Mineral	Brief Description
CONSTRUCTION MATERIALS	

5. Proposed Activities

Tenement Number: M 70/1248
Activity Type: Drilling

Type of Drilling Rig: RC Drilling				
# Drill holes proposed: **36**	Max Depth of holes (m): **18**	Spacing (m): **100**	Is this infill / resource drilling?: *1 **Y**	
# Drill pads: **36**	Length (m): **5**	Width (m): **5**		
Line / Track Clearing Length (m): **7200**		Width (m): **10**		
Is the drilling likely to encounter groundwater? *3 **Y**				
# Sumps: **36**	Length (m): **1**	Width (m): **1**	Depth(m): **1**	
Cut & fill pad construction required?: **N**				
# Cut & fill Pads:	Length:	Width (m):	Slope (°):	S.G:
Cut & fill tracks construction required?: *2 **N**				
# Cut & fill tracks:	Length:	Width (m):	Slope (°):	S.G:

Total Area Disturbed (Ha)	**7.29**	**Total Tonnage Disturbed**	**0**	

Tenement Number: M 70/1250 **Activity Type:** Drilling				
Type of Drilling Rig: RC Drilling				
# Drill holes proposed: **6**	Max Depth of holes (m): **18**	Spacing (m): **100**	Is this infill / resource drilling?: *1 **Y**	
# Drill pads: **6**	Length (m): **5**	Width (m): **5**		
Line / Track Clearing Length (m): **1200**		Width (m): **10**		
Is the drilling likely to encounter groundwater? *3 **Y**				
# Sumps: **6**	Length (m): **1**	Width (m): **1**	Depth(m): **1**	
Cut & fill pad construction required?: **N**				
# Cut & fill Pads:	Length:	Width (m):	Slope (°):	S.G:
Cut & fill tracks construction required?: *2 **N**				
# Cut & fill tracks:	Length:	Width (m):	Slope (°):	S.G:
Total Area Disturbed (Ha)	**1.22**	**Total Tonnage Disturbed**	**0**	

1 If proposing infill / resource drilling, it is recommended you conduct waste characterisation to assist in mine planning. Waste characterisation is required when seeking approval to mine. Please refer to the "Guidelines for Mining Proposals in Western Australia" on the DMP website.

**2 Please ensure the additional information includes the number of pads, pad dimensions (length x width) and specific gravity, specific for each gradient. If you are having difficulties please contact an Environmental Officer (EO), DMP for assistance. The Departmental Hillside Tonnage Calculator (used as a guide to calculate tonnage estimates for cut and fill activities associated with exploration/prospecting activities) is available on the DMP website.*

**3 Refer to the "Guidelines for the protection of surface and groundwater resources during exploration drilling". If the proposed drilling has potential to intercept artesian aquifers, consultation and permitting from the Department of Water (DoW) may also be required.*

**4 If yes, please provide a covering letter detailing; camp facilities (number of dongas, size of camp etc), environmental management (e.g. waste disposal, surface water management, etc), other relevant approvals (e.g. Shire), rehabilitation procedures of the facility and an additional map illustrating the site layout.*

**5 Note that tonnage limits on P's and E's apply to tonnage disturbed for excavations (costeans, test pits, etc), cut and fill pads, access tracks and larger than normal sumps. If unsure, please consult the Regional EO, DMP.*

6. Summary of Areas and Tonnage Disturbed

M 70/1250			
Total Disturbance Area (Ha)	1.22	**Total Disturbance Tonnage**	0
Previous Disturbance (Ha)	.5	Cumulative Tonnage Disturbed	0.000
Excess Tonnage Approval	N/A		
Comments	Attached is the Preliminary Flora and Fauna Report which provides a summary of the terrain, condition and vegetation types within the two tenements. A clearing permit (CPS CPS 6617/1) for the access tracks is currently under assessment.		
M 70/1248			
Total Disturbance Area (Ha)	7.29	**Total Disturbance Tonnage**	0
Previous Disturbance (Ha)	0	Cumulative Tonnage Disturbed	0.375
Excess Tonnage Approval	N/A		
Comments			

Note that tonnage limits on P's and E's apply to tonnage disturbed for excavations (costeans, test pits, etc), cut and fill pads, access tracks and larger than normal sumps. If unsure, please consult the Regional EO, DMP.

**Disturbance exceeding 500 tonnes on a Prospecting Licence (Section 48c Mining Act 1978) or 1,000 tonnes on an Exploration Licence (Section 66c Mining Act) requires delegated approval from the Director, Mineral Titles Division (MTD). Please note that disturbed tonnage is cumulative for the life of the tenement. Any excess over 50,000 tonnes requires Ministerial approval. The tenement holder is required to contact (MTD).*

7. Maps

The plan should clearly show the location of the following:

Number of Map Files Uploaded : **1**	Map File Name **:**	JAN-1506-01 Jandabup Exploration Clearing Permit Application (A4).pdf

NOTE: *plans using a topographical map or aerial photo are required, with GDA94 co-ordinates.*

- Proposed activities and disturbance (showing drill holes and/or lines)
- Line and track clearing
- Major landforms and topographical features
- Existing tracks / route onto tenement and route to proposed drill holes/costeans
- Tenement boundaries and labels
- Freehold land / Reserve location boundaries and relevant cadastral information
- Legend

8. Environment Protection Authority (EPA)

Are the activities proposed in this Programme of Work located within an **area currently under formal assessment by** the EPA under Part IV of the *Environmental Protection Act 1986?*:

☐ **Yes**	☑ **No**	

Has the **area subject to this PoW ever previously been assessed** by the Environmental Protection Authority (EPA) under Part IV of the *Environmental Protection Act 1986*?

☐ **Yes**	☑ **No**	

9. Clearing of native vegetation

Does your proposal involve the clearing of native vegetation?

☑ **Yes** ☐ **No**

Clearing for exploration purposes is exempt from requiring a clearing permit provided it is not within an Environmentally Sensitive Area (ESA), and is conducted under an authority granted under the *Mining Act 1978* (e.g. an approved Programme of Work). This exemption is found at item 25 of the Environmental Protection (Clearing of Native Vegetation) Regulations 2004.

The Native Vegetation Map Viewer provides a guide to the locations of ESA's. *http://maps.dec.wa.gov.au/idelve/nv/index.jsp.* Instructions on using the Map Viewer can be found on the DMP website at *http://www.dmp.wa.gov.au/17202.aspx*

Environmentally Sensitive Areas are defined in regulation 6 of the Environmental Protection (Clearing of Native Vegetation) Regulations 2004. *Some examples of ESA's are Bush Forever Sites, areas listed on the Register of National Estate for natural values, the area within 50 m of Declared Rare Flora, and the area covered by a Threatened Ecological Community*

If you have any queries regarding clearing permits please contact the DMP – Native Vegetation Assessment Branch (9222 3570)

***i)* Is the clearing of native vegetation that you propose within an Environmentally Sensitive Area?**		
☐ **Yes**	*If known, please state the type of ESA (e.g. Bush Forever Site, Threatened Ecological Community etc);*	☑ **No** (Please go to Section 10)

10. Environmental Management

Note: *If relevant Environmental Management and Rehabilitation Practices for all activities selected under section 5 "Proposed Activities" are not selected, this may extend the assessment timeframe as further information will be sought.*

10.1 Environmental Management and Methods of Minimising Disturbance

- ☐ Use of raised blade for clearing tracks & drill pads
- ☑ Using existing tracks where available
- ☑ Avoiding significant vegetation e.g. large trees, thickets, mulga groves
- ☐ Vegetation stockpiled separately for use in rehabilitation when constructing drill pads
- ☐ Topsoil and vegetation stockpiled separately for use in rehabilitation when constructing sumps and/or costeans
- ☐ Excavations (sumps, costeans etc.) appropriately ramped to allow fauna egress
- ☑ Use of liners and drip trays under rigs to minimise risk of hydrocarbon spillage
- ☐ Use of sumps of appropriate size to contain all water and sediment encountered during drilling (sump to be located away from significant vegetation, and water courses)
- ☑ Use of appropriate machinery to minimise impacts (excavator instead of bulldozer, wheeled machinery instead of tracked, specialist drill rig etc…)
- ☐ Vehicle hygiene maintained to prevent the spread of plant pathogens (e.g. *Phytophthora sp.*) and/or invasive species. (check requirements of tenement conditions for specific management, e.g. Dieback Management Plan)
- ☐ Other (please specify):

10.2 Rehabilitation Practices and Timing

- ☑ Drill holes secured immediately after drilling (capped/plugged)
- ☑ Drill holes securely plugged below ground at minimum depth of 400mm within 6 months of drilling (If not using concrete, conical plugs, please specify type in Other)
- ☐ Scarifing/Ripping of compacted areas on the contour

- [ ] Blocking access to tracks
- [x] Drill sample piles rehabilitated or buried
- [x] Sample bags removed within 6 months of drilling
- [x] All rubbish removed from site (including any hydrocarbon spills)
- [ ] Excavations (e.g. sumps, costeans etc.) backfilled and respread with topsoil and cleared vegetation
- [ ] Other (please specify):

Tenement conditions require that all rehabilitation must be completed within 6 months of drilling. **Any extension of this timeframe requires the written approval of an Environment Officer before the six month period expires.**

10.3 Describe Existing Environment and Vegetation

(E.g. Mulga scrublands, Eucalypt / saltbush woodland, Spinifex grassland, Jarrah forest, Farmland, etc.)

Cleared Pine Plantation, please see Preliminary Flora and Fauna Report

10.4 Describe Landform

(E.g. flat alluvial plain, greenstone, range, creek/drainage lines, hillsides etc.)

Sand Dune

10.5 Do the proposed activities occur on isolated hills / ranges in the Midwest or Yilgarn (banded iron formations) (BIF)?

☐ **Yes** ☑ **No**

10.6 Is your exploration program likely to encounter Radioactive Material?

☐ **Yes** ☑ **No**

10.7 Is your exploration program likely to encounter fibrous materials such as asbestos?

☐ **Yes** ☑ **No**

10.8 Does the proposed activity interfere with the Beds and/or Banks of a watercourse?

☐ **Yes** ☑ **No**

All statements made and information given in this certified application is true and correct. I acknowledge that this application will be rejected if I have not addressed all relevant tenement conditions and/or sufficient information is not supplied.

☑ **Yes**

Name: Joanna Russell

Position: Senior Planning and Environment Coordinator

Date: 06-Jul-15