

Mineral Resources Tasmania  
Department of State Growth



Office use only  
Tenement ID  
ML No.

## MINING LEASE APPLICATION

### Q1. Full name(s) or company name(s) of applicant(s) and percentage interest

Surname or company name	ACN / ARBN	Incorporated in	Given name/s	%
Derek R & Kail W Hayes				100
(If insufficient space please attach list)				100

### Q2. Postal address for service of notices

31817 Tasman Highway

Derby

Postcode: 7264

Phone No.: \_\_\_\_\_ Mobile No.: \_\_\_\_\_

Email Address: \_\_\_\_\_

### Q3. Name and address of principal contact:

Derek Hayes

Address as above

Postcode: \_\_\_\_\_

Phone No.: \_\_\_\_\_ Mobile No.: \_\_\_\_\_

Email Address: \_\_\_\_\_

Note: correspondence will be sent only to this address – copies will not be sent to all applicants

### Q4. Is this an application for a storage lease under Section 106 of the *Mineral Resources Development Act 1995*?

Yes ☐ No ☒

Q5. Lease area required 1.8 ha

Q6. Term requested 5 years years

The prescribed application fee of \$1,358.80 and rent in advance must accompany this application.

Applications made through Service Tasmania: STaRS Code: MR5

Amount paid \_\_\_\_\_ Receipt Number \_\_\_\_\_

Cashier (Initial & date) \_\_\_\_\_

Cost allocation: 2125.45.4603 (Application Fee)

Personal information we collect from you for registration and tenement administration processes will be used by the Director of Mines for that purpose and may be used for other purposes permitted by the *Mineral Resources Development Act 1995* and associated laws. Your personal information may be disclosed to contractors and agents of the Director of Mines, law enforcement agencies and other public sector bodies or organisations authorised to collect it.

This information will be managed in accordance with the *Personal Information Protection Act 2004* and may be accessed by you on request to the Department. You may be charged a fee for this service. Failure to provide this information may result in your application not being processed or records not being properly maintained.

**Q7. What are the reasons for the requested term?**

To align with existing mining lease 16M/1995

**Q8. Is the area of this application within an exploration licence or retention licence not already held by the applicant?**

Yes ☐ No ☒

If you answer Yes to this question you must attach evidence that the holder of the exploration licence or mining lease has given permission for this application to be lodged.

**Q9. Specify the Category of Minerals for which this Mining Lease is sought**

Note:	Category 1	<i>Metallic minerals and atomic substances</i>	<input type="checkbox"/>
	Category 2	<i>Coal, peat, lignite and oil shale</i>	<input type="checkbox"/>
	Category 3	<i>Construction minerals — stone, clay &amp; sand</i>	<input checked="" type="checkbox"/>
	Category 4	<i>Petroleum products except oil shale</i>	<input type="checkbox"/>
	Category 5	<i>Industrial minerals, precious and semi-precious stones</i>	<input type="checkbox"/>
	Category 6	<i>Geothermal substances</i>	<input type="checkbox"/>

Specify principal commodities sought sand (category 3 mineral)

**Q10. Description of mining to be carried out.**

The applicant is to specify the mining activities that will be carried out. Details may be attached on a separate page.

Sand to be extracted by wheeled loader and placed on trucks for transport direct to market.

There is no processing required as the material is a bi-product of post mining activities previously undertaken on the land.

**Q11. Description of the area of land in respect of which a lease is sought?**

What is the general locality of the area of this application? (e.g. 15 kilometres southeast of Zeehan). Attach a plan of the area required clearly showing Crown and private land and the boundaries of the application area.

Immediately west of mining lease 16M/1995, and also immediately north and east of mining lease 16M/1995

**Q12. What was the date and time the land subject to this application was marked out?**

Applications must be lodged within seven days of the marking out.

Date \_\_\_\_\_ Time \_\_\_\_\_

**Q13. Location description**

Describe the location of the Datum Post for the land which is the subject of this application. (Fully describe this reference point if possible so that it can be accurately located. e.g. Intersection of Bulgobac Creek and the Murchison Highway).

In which corner of the lease is the Datum Post located? e.g. NW corner North-Eastern access with Tasman Highway & Land Parcel

Coordinates for Datum Post: 567793 mE, 5444661 mN

Datum used: AGD66 ☐ GDA 94 ☒

**Q14. Background land details**

Provide:

1. a description of all parcels of land which are to be covered by the lease, including any access routes if the lease is to cover the access;
2. the landowner's name and address for each parcel of land.

*Description of Parcel of Land**Owner's Name and Address*

Title Reference/Plan No.

Name: DPIPWE Crown LandAddress: Derby, Tasmania

Postcode

Title Reference/Plan No.

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Postcode

If space insufficient please attach a separate sheet.

**Q15. Technical resources available to the applicant**

Names, qualifications and experience of persons undertaking the mining activity. If the person is not an employee of the applicant you must attach evidence that he/she has agreed to assist in the proposed mining activity.

The resources used are those that are already utilised on mining lease 16M/1995.

A wheeled loader shovels sand directly onto trucks which then transport the sand direct to market. There is no processing or screening. The sand is simply extracted.

Derek Hayes is a long standing resident of Derby and lives close to the mining lease.

Derek has operated the mining lease for approximately 15years on behalf of his aging father who formerly ran the mining operations.

**Q16. Financial resources available to the applicant**

Proof of ability to fund the mining activity is required. The applicant is to supply details of the financial resources available to them. All companies should attach their most recent audited financial report to the Australian Stock Exchange (for No Liability companies, this will be your most recent quarterly report. For Limited companies, this will be your most recent half-yearly report), as well as providing details in the space provided.

Companies with net assets over \$50 million which submit their most recent audited financial report do **not** need to provide details in the space provided.

All other applicants **must** provide details in the space provided.

You must answer on each line and state 'not applicable' if it is not applicable. You must attach evidence of the availability of each resource, and signed authorisations from guarantors if applicable. **Acceptable** resources are listed below. **Unacceptable** resources include unlisted shares, personal or investment property, fixed assets and accounts receivable or other debts.

In assessing your financial capacity, the Department compares your 'Assets' against your 'Obligations' to establish your net assets which are measured against the required expenditure for the first **two** years, i.e. the net assets must meet or exceed the required expenditure.

*Note: The Department reserves the right to pursue whatever information that is necessary for the Minister to be satisfied that the applicant meets the requirements of section 14(4)(d) of the Mineral Resources Development Act 1995.*

*All information relating to financial details must be no older than six months at the time the information is submitted.*

Financial resources		Acceptable evidence
(a) Cash	\$	Attach a copy of a Bank Statement.
(b) value of Government/semi-Government bonds	\$	Attach copy of bond.
(c) value of listed shares held at current market price (selling)	\$	Broker's statement, or copies of share certificates, or CHESS (Clearing House Electronic Subregister System) statements. Attach copy.
(d) line of credit from a recognised financial institution	\$	Attach a statement from the institution concerned giving the extent of credit.
(e) Future fund raising	\$	Prospectus. Fund raising must be completed prior to the lease being granted.
<b>TOTAL FINANCIAL RESOURCES</b>	\$	
<b>Financial obligations</b>		
Expenditure commitments on all existing mineral tenements in Tasmania for the next two years	\$	
<b>TOTAL FINANCIAL OBLIGATIONS</b>	\$	

**Q17. What is the estimated expenditure on the lease during the first 3 years?**

Year 1 \$2000

Year 2 \$2000

Year 3 \$2000



**Q18. Signature on this application**

Applications may be lodged electronically, personally or delivered to the office of the Registrar of Mines by the applicant(s).

*Full Name of Applicant/s*

*Signatures of Applicant/s*

*Date*

Derek Ronal Hayes

24.10.18

Kail Wendy Hayes

24.10.18

**Note:**

1. If application is being lodged electronically no signatures are required as application is verified using the credit card transaction.
2. If the signature on this form is not that of the applicant (or where the applicant is a company, the Company Secretary or a Director of that company), written evidence must be provided that the person signing this declaration is authorised to do so on behalf of the applicant, for example a signed statement on company letterhead.

**BEFORE A LEASE CAN BE GRANTED THE FOLLOWING WILL BE REQUIRED:**  
*(Applicants can attach the following documents items to the application, if available).*

1. A Compensation Agreement if the application is on private land and the applicant is not the landowner. If the applicant is the landowner, proof of ownership should be provided.
2. A Public Liability Insurance (PLI) policy document for an amount of \$10 million or \$20 million as determined by the Inspector.
3. Completed Mining Plan form that includes details of:
  - the proposed operation, including stages of development, for the requested term of the mining lease;
  - method of mining;
  - progressive and final rehabilitation of the area of land disturbed by operations;
  - management strategies for dealing with geological and environmental issues associated with the development.

## CHECKLIST

The following must accompany the application:

Please tick

- A description of the mining to be carried out (Q10) ☒
- Sketch map/s or other graphic representation setting out: (Q11)
  - 1. The boundaries of the land subject of this application ☒
  - 2. The location of the Datum Post ☒
- Evidence that the specified persons have agreed to assist with the mining activity (Q15) N/A ☒ ☐
- Evidence of the financial resources available to the applicant (Q16) ☒
- Proof of identity of applicant ☒
  - Minimum age of 18 years if applicant is not a company.
  - e.g. — *Individual* — Photocopy of Driver's Licence, Passport
  - Company* — Photocopy of Certificate of Incorporation or Australian Companies Number (ACN) and list of directors/office holders
- Evidence that the person signing this application is authorised to do so (Q18) ☐
- Permission from the Exploration Licence (EL) or Retention Licence (RL) holder if application is over an EL or RL held for the same category of minerals. N/A ☐ ☐
- Prescribed fees: Application Fee \$1,358.80 ☐
- Six month's rent in advance: ☐
  - Annual rent is \$23.91 per ha, p.a., minimum \$478.11 p.a. (includes GST)
  - Annual rent is not payable where lease applicant is the registered landowner.
- Marking out notice:
  - With this application ☒
  - Sent in already ☐

## ADDRESS FOR CORRESPONDENCE AND LODGEMENT OF FORMS

Forms and attachments are to be lodged electronically at [info@mrt.tas.gov.au](mailto:info@mrt.tas.gov.au) OR,

Post to:

Registrar of Mines  
Mineral Resources Tasmania  
PO Box 672  
BURNIE TAS 7320

Registrar of Mines  
Mineral Resources Tasmania  
PO Box 56  
ROSNY PARK TAS 7018

## FURTHER ADVICE

Further advice may be obtained by contacting Mineral Resources Tasmania:

Telephone: (03) 6165 4800  
Facsimile: (03) 6173 0222  
Email: [info@mrt.tas.gov.au](mailto:info@mrt.tas.gov.au)  
Internet: [www.mrt.tas.gov.au](http://www.mrt.tas.gov.au)

Mineral Resources Tasmania  
Department of State Growth



## APPLICATION TO SURRENDER

### Details of mineral tenement

ML number 16M/1995

RL number \_\_\_\_\_

EL number \_\_\_\_\_

### Holder of mineral tenement

Name of holder: D R & K W Hayes

Postal Address: 31817 Tasman Highway, Derby

Postcode: 7264

Phone No.: \_\_\_\_\_ Mobile No.: \_\_\_\_\_

Email Address: \_\_\_\_\_

The holder of the abovementioned mineral tenement applies to surrender:

- ☐ The whole of the mineral tenement
- ☒ Part of the mineral tenement shown on the attached map showing the boundaries of the original tenement and the boundaries of area to be surrendered

Dated this 24<sup>th</sup> day of OCTOBER 2018

Signature of holder \_\_\_\_\_

In the presence of (Witness) \_\_\_\_\_

### Lodged by (name and address for return of documents)

Name (s): Derek Hayes

Postal Address: As above

Postcode: \_\_\_\_\_

Phone No.: \_\_\_\_\_ Mobile No.: \_\_\_\_\_

Email Address: \_\_\_\_\_

**The following must accompany this form**

	N/A	YES (TICK)
• Prescribed fee (\$165.90)	<input type="checkbox"/>	<input type="checkbox"/>
• The lease or licence document issued for the tenement (if application is for partial surrender)	<input type="checkbox"/>	<input type="checkbox"/>
• Map showing the boundaries of the original tenement and the boundaries of the area to be surrendered (if partial surrender)	<input type="checkbox"/>	<input type="checkbox"/>
• Confirmation that drill core has been delivered to the MRT Core Library	<input type="checkbox"/>	<input type="checkbox"/>
• Confirmation that all production returns have been lodged and royalties paid (if applicable)	<input type="checkbox"/>	<input type="checkbox"/>

**Please note:**

*A final report must be provided within three (3) months of this surrender application for approval to occur, if surrendering an exploration licence or retention licence. If surrendering a mining lease, the Director of Mines will notify you if a final report is required.*

**ADDRESS FOR CORRESPONDENCE AND LODGEMENT OF FORMS**

Forms and attachments are to be lodged electronically at [info@mrt.tas.gov.au](mailto:info@mrt.tas.gov.au) OR,

Post to:

Registrar of Mines  
Mineral Resources Tasmania  
PO Box 672  
BURNIE TAS 7320

Registrar of Mines  
Mineral Resources Tasmania  
PO Box 56  
ROSNY PARK TAS 7018

**FURTHER ADVICE**

Further advice may be obtained by contacting Mineral Resources Tasmania:

Telephone: (03) 6165 4800  
Facsimile: (03) 6173 0222  
Email: [info@mrt.tas.gov.au](mailto:info@mrt.tas.gov.au)  
Internet: [www.mrt.tas.gov.au](http://www.mrt.tas.gov.au)

**The prescribed application fee of \$165.90 must accompany this application.**

Applications made through Service Tasmania:

**STaRS Code: MR8**

Amount paid \_\_\_\_\_ Receipt Number \_\_\_\_\_

Cashier (Initial & date) \_\_\_\_\_

Cost allocation: 2125.45.4602

Personal information we collect from you for registration and tenement administration processes will be used by the Director of Mines for that purpose and may be used for other purposes permitted by the *Mineral Resources Development Act 1995* and associated laws. Your personal information may be disclosed to contractors and agents of the Director of Mines, law enforcement agencies and other public sector bodies or organisations authorised to collect it.

This information will be managed in accordance with the *Personal Information Protection Act 2004* and may be accessed by you on request to the Department. You may be charged a fee for this service. Failure to provide this information may result in your application not being processed or records not being properly maintained.

**OFFICE USE ONLY**

Surrender: **Approved** **Refused**

Signed Director of Mines \_\_\_\_\_ Date \_\_\_\_\_

Conditions of approval:

Date applicant notified of approval/refusal \_\_\_\_\_





Areas to be Surrendered from 16M/1995



Proposed Surrender Areas (0.58Ha)

### Surrender Area details

Area 1.  
= 0.28Ha

Area 2.  
= 0.08Ha

Area 3.  
= 0.22Ha

Total surrender area = 0.58Ha





## Department of State Growth

MINERAL RESOURCES TASMANIA



Enquiries: Tenement Administration  
Ph: (03) 6477 7086 Fax: (03) 6173 0222  
Email: [info@mrt.tas.gov.au](mailto:info@mrt.tas.gov.au) Web: [www.mrt.tas.gov.au](http://www.mrt.tas.gov.au)  
Our Ref D18/250425/3: SJ 16M/1995

4 December 2018

Derek Ronald & Kail Wendy Hayes  
31817 Tasman Highway  
Derby TAS 7264

Dear Mr & Mrs Hayes

### **PARTIAL SURRENDER OF MINING LEASE ML 16M/1995 AT DERBY**

Under delegation from the Director of Mines I have approved the application to surrender part of your mining lease without conditions.

The security deposit of \$10,000.00 which currently applies to the lease remains in place while your mining operations continue over the remainder of the lease area.

Please attach the enclosed copy of the *Application to surrender* form and updated map of your lease document for safekeeping.

For any further assistance or clarification please contact Tenement Administration on (03) 6477 7086 or email [info@mrt.tas.gov.au](mailto:info@mrt.tas.gov.au).

Yours sincerely

Clint Siggins  
**A/G MANAGER  
SCIENTIFIC SERVICES**

**Encl**

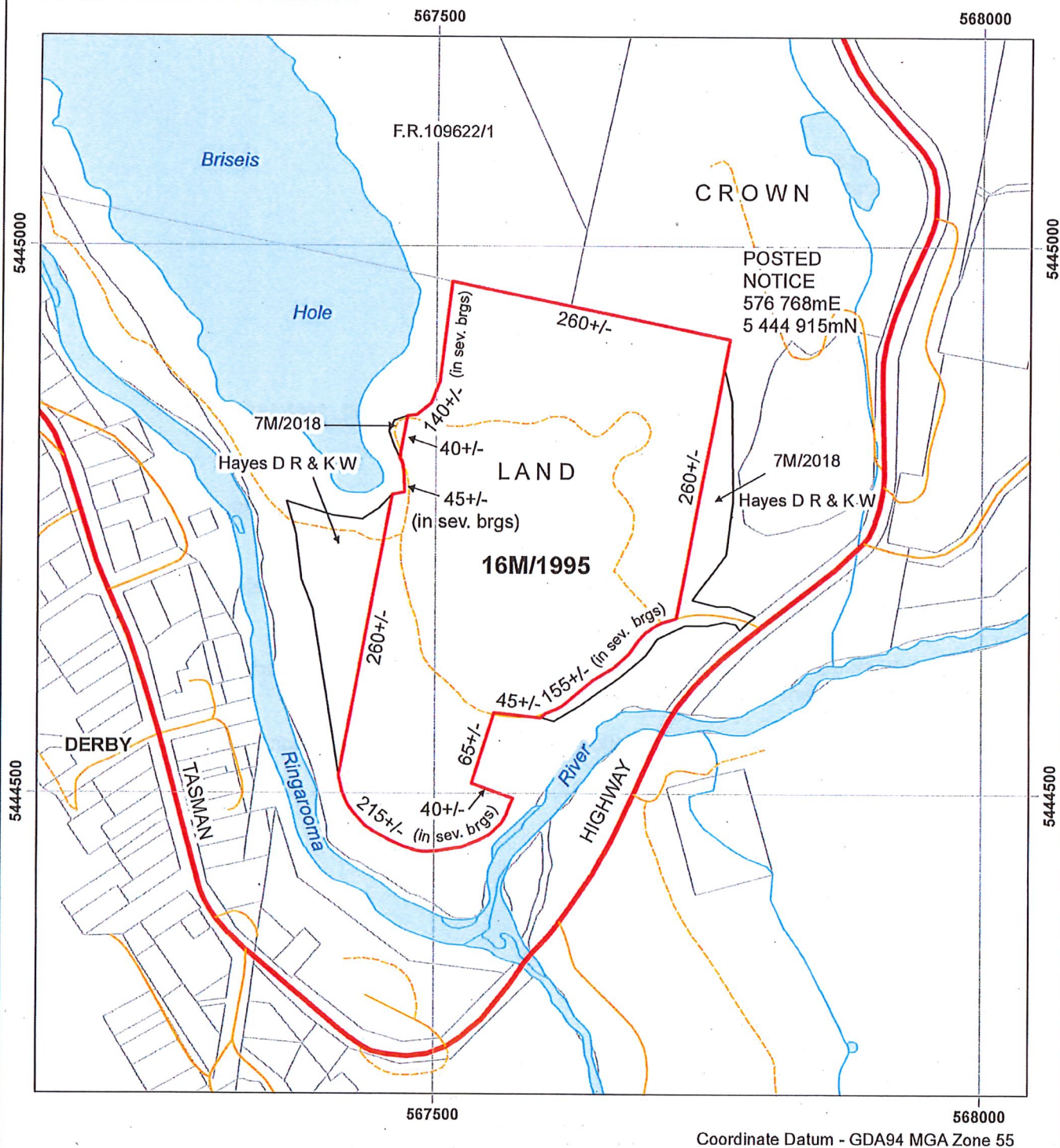
**Cc:**

Langenberg, John T (Environment) [John.Langenberg@environment.tas.gov.au](mailto:John.Langenberg@environment.tas.gov.au)

Sears, Fred (DoJ) [Fred.Sears@justice.tas.gov.au](mailto:Fred.Sears@justice.tas.gov.au)

The Manager, Dorset Council, PO Box 21, SCOTTSDALE TAS 7260

PLAN SUBJECT TO SURVEY



Coordinate Datum - GDA94 MGA Zone 55

MUNICIPALITY:	DORSET	SCALE:	1:5000
VICINITY:	DERBY	AREA:	12 hectares
MAP:	DERBY 1:25 000	DATE:	26/11/2018
APPLICANT:	HAYES D. R. & K. W.	<b>16M/1995</b>	
COMPILED FROM:	N/A		
		<div style="border: 1px solid red; width: 20px; height: 10px; display: inline-block; margin-right: 5px;"></div> LAND DEMISED	



## Department of State Growth

MINERAL RESOURCES TASMANIA



Enquiries Tenement Administration

Ph 03 6477 7086 Fax 03 6173 0222

Email [info@mrt.tas.gov.au](mailto:info@mrt.tas.gov.au) Web [www.mrt.tas.gov.au](http://www.mrt.tas.gov.au)

Our Ref D18/250425/5: RJ

17 December 2018

REGISTERED MAIL

D R & K W Hayes  
31817 Tasman Highway  
DERBY TAS 7264

Dear Mr & Mrs Hayes

### **MINING LEASE ML 16M/1995 AT DERBY**

Please find enclosed your copy of the Mining Lease that you provided to Mineral Resources Tasmania during the partial surrender of ML 16M/1995.

The Mining Lease includes a copy of the approved *Application to Surrender* form and revised lease diagram.

Should you require further assistance, please contact Tenement Administration in Burnie on (03) 6477 7086 or email [info@mrt.tas.gov.au](mailto:info@mrt.tas.gov.au).

Yours sincerely

Chris Large  
**MANAGER, TENEMENT ADMINISTRATION**

Encl.



Mineral Resources Tasmania  
Department of State Growth



## NOTICE OF MARKING OUT OF MINING LEASE

**FOR THE PURPOSE OF EXTRACTING** Sand

**(To be posted on land & a copy to be lodged with the registrar within 7 days of marking out)**

Date of marking out \_\_\_\_\_ Area (ha) 1.8 Mineral category 3

Position of notice (e.g. NW corner) Eastern Corner

### Name and postal address of APPLICANT for the mining lease

Name (s): Derek and Kail Hayes

Postal Address 31817 Tasman Highway, Derby

Postcode: 7264

Phone No.: \_\_\_\_\_ Mobile No.: \_\_\_\_\_

Email Address: \_\_\_\_\_

### Name and postal address of PERSON MARKING OUT the land

Name (s): Derek Hayes

Postal Address 31817 Tasman Highway, Derby

Postcode: 7264

### Signature

A copy of this notice of marking out, an application for lease, prescribed fees and a plan showing the position of the datum post and approximate boundaries of the land must be lodged with the Registrar of Mines within seven days of marking out the area.

### Further Advice

Further advice may be obtained by contacting Mineral Resources Tasmania:

Telephone: (03) 6165 4800

Facsimile: (03) 6173 0222

Email: [info@mrt.tas.gov.au](mailto:info@mrt.tas.gov.au)

Internet: [www.mrt.tas.gov.au](http://www.mrt.tas.gov.au)



# Mining Lease Application Areas

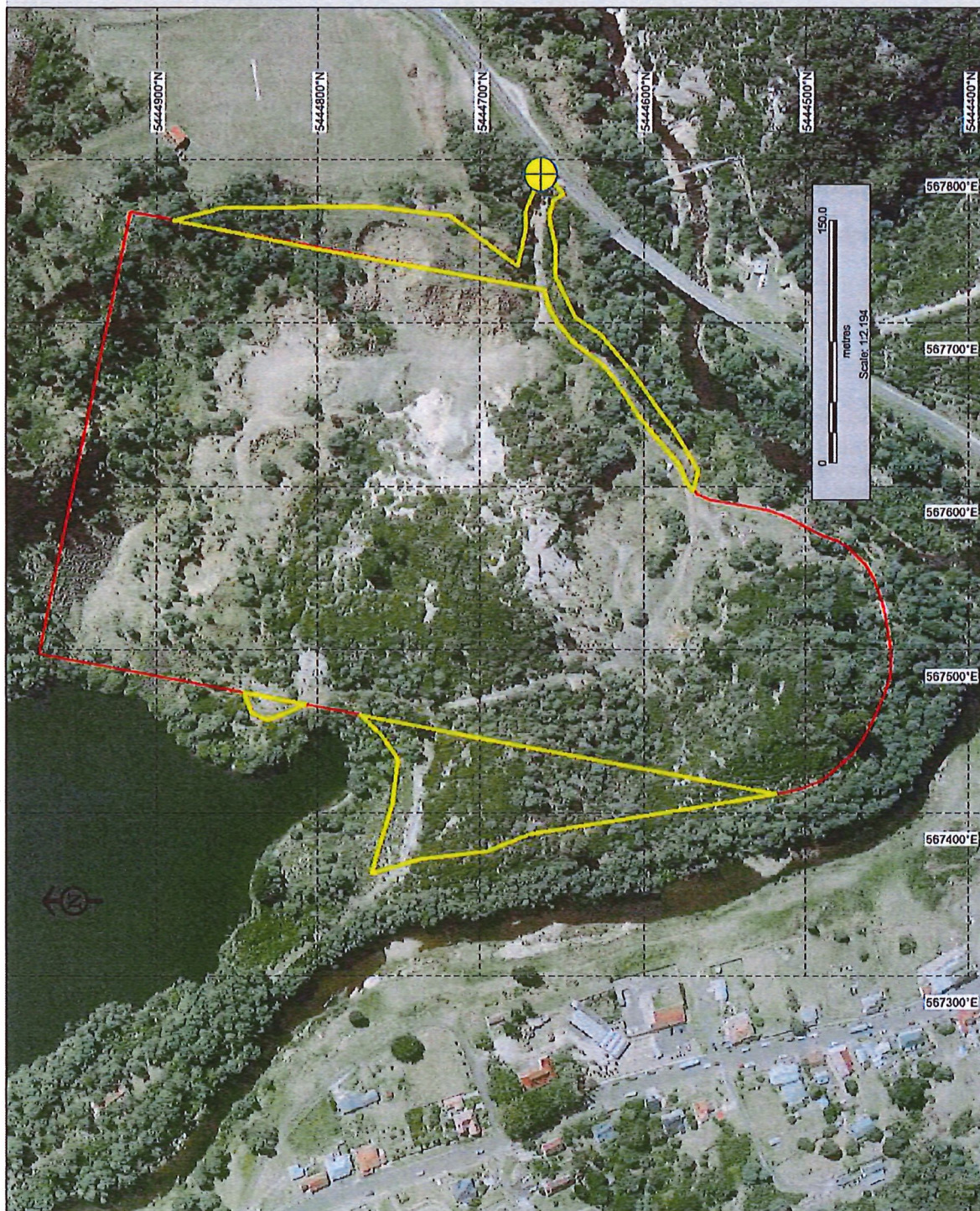


Mining Lease Application Areas

Existing Mining Lease Boundary 16M/1995



Marking Out Notice Location (Proposed)  
567793E/5444661N (MGA Zone 55S GDA94)







**Mineral Resources Tasmania**  
Department of State Growth



**MINING PLAN  
MINING AND EXTRACTIVE INDUSTRIES  
APPLICATIONS AND TRANSFERS**

This form is designed to provide information for a proposed mining, quarrying or extractive industry operation. The information is required to assist Mineral Resources Tasmania (MRT) in assessing the application, drafting appropriate lease conditions, and is used to set a security deposit. Please refer to the *Quarry Code of Practice*, which will be used as the assessment standard. Do not use this form if a major operation is proposed.

Please provide the following information:

Name of applicant:	Derek Ronald Hayes & Kail Wendy Hayes
Address:	31817 Tasman Highway
	Derby, TAS, 7264
Telephone number:	
Mobile number:	
Facsimile number:	
Name of landowner (if private land):	DPIPWE Crown Land
Landowner phone number:	
Lease application number:	
What type of application is it? (circle)	New Grant <input checked="" type="checkbox"/> Transfer
What other mining leases or operations are you involved in?	16M/1995

Landowners may extract stone, sand and gravel for their own use on that property or sell less than 100 tonnes per annum without a Mining Lease, otherwise a Mining Lease is required.

**PLEASE ENSURE THE FOLLOWING INFORMATION IS PROVIDED:**

(Circle *italics* as required.)

What is the *Quarry/Mine* called? Derby Sand Quarry

Access via: Tasman Highway

What is the land tenure? ..... *Private land / PTPZ (forestry) Land* **Other Crown Land**

What is the current use of the site? Unused Crown Land

Operational status ..... **New application/Transfer**

If the operation was pre-existing, who was the previous operator? N/A

If a contractor is to be used, who is the contractor? Various

Has a Development Application been lodged with Council? TBA ..... Yes/No

Has a permit been granted or are there existing use rights? TBA ..... Yes/No

Is the proposed operation a Level 2 Activity under the *Environmental Management and Pollution Control Act 1994*? ..... Yes **No**

**MATERIAL TO BE EXTRACTED AND RESOURCES**

What product is to be mined? **Sand/clay**/gravel/hard rock/alluvial/other minerals

Estimated annual production? 2000 - 4999m3 p.a. ..... cubic metres/tonnes

Is there a demonstrated market? *Please provide information?*

Sand is a strategically important resource in the area. This is the only site able to satisfy demand.

Estimated or measured resources >50 000m3 of sand ..... cubic metres/tonnes of stone

..... tonnes of ore at ..... % ..... mineral

Attach statement of resource estimation if you have one, noting if the resource is JORC compliant.

What size of lease is being applied for? 1.8 ..... hectares

**ROYALTY**

Does the Lease area cover any Crown land? ..... **Yes/No**

Is it planned to extract minerals owned by the Crown? ..... **Yes/No**

If the lease area covers private land, has a current landowner's compensation agreement been signed? N/A ..... Yes/No

Attach a copy of the signed agreement.

How will production records be kept? **Sales dockets/Weighbridge dockets**

*If other, please describe* .....

.....

## PUBLIC SAFETY

Safety is an important responsibility of the lessee.

How accessible is the site to the general public?

high risk/low risk

Are gates or fences

existing/to be installed/required?

Are there unprotected shafts, excavations, faces, dams or machinery?

Yes/No

Measures taken to reduce hazards are as follows:

Signage, Gates & Fences

Is the access to hazardous areas controlled?

Yes/No

## PUBLIC LIABILITY INSURANCE

What level of public liability insurance do you carry?

\$ 10 million

It is a requirement of the mining lease that a minimum of \$10,000,000 public liability insurance is maintained; larger and/or higher risk operations will be required to carry \$20,000,000 of insurance.

Attach a copy of your certificate of currency if not already provided to MRT.

## OPERATION SUMMARY

What methods or equipment are planned to be used?

Earth moving/drill & blast

Crushing/screening/washing

Fixed or mobile plant

Small underground

Alluvial mining

Will waste, overburden stockpiles or tailings be produced? No

How much experience do you have with this style of operation? > 15 years

Will the operation be intermittent or continuous?

If intermittent please describe A wheeled loader will extract sand from historic stockpiles and place in trucks to be transported direct to market.

## SITE SELECTION and PLANNING (*Quarry Code of Practice*, pages 10 and 11)

Careful site selection, after consideration of all possible alternatives, may reduce future problems, particularly with respect to neighbours. New quarries should be located away from existing residences or watercourses. Plant should be situated to minimise noise and dust impact.

How close are watercourses to the excavation or plant area? (minimum 10 m) ...20m.....

How close is the nearest permanent watercourse? (minimum 40 m) ...20m.....

How many neighbours are within 300 metres of the quarry or access road? ...>30.....

If vibratory screening is proposed, how many neighbours are within 500 metres? ...N/A.....

If crushing is proposed, how many neighbours are within 750 metres? ...N/A.....

If blasting is proposed, how many neighbours are within 1000 metres? ...N/A.....

Visibility is the cause of much public complaint at many, otherwise well managed, quarries. Visibility of the planned quarry from frequently used roads or vantage points may limit the height of the quarry or require specific working and rehabilitation plans.

Have you considered an alternative site?

Yes/No ☒ No

## ACCESS (*Quarry Code of Practice*, page 13)

Access to quarry sites is of primary importance and should be considered very early in site planning, because this will constrain management alternatives for the quarry in the future. Often the issues arising at the quarry are different to those posed by the access.

Is there ☒ existing access or new access will be required?

Has the junction with public roads been agreed with Council/State Roads? TBA

What are the truck movements expected per day? ...<5..... Maximum

What are the truck movements expected per week? ...<25..... Maximum

What is the name of the main route of trucks leaving the quarry? Tasman Highway East/West .....

How many neighbours are potentially affected by the proposed traffic volume? ...>30.....

Is there potential for dust or noise from trucks to annoy neighbours? ...Yes.....

Are the access road drains protected against erosion from quarry runoff? ..... ☒ Yes/No

Will sediments in the water settle out before entering drains on public roads? ..... ☒ Yes/No

## STAGING OF OPERATIONS (*Quarry Code of Practice*, page 14)

The resource should be worked in a systematic manner, generally across or down the slope, so that worked-out sections can be rehabilitated as mining progresses. The Inspector will recommend a security deposit, based on the maximum disturbed area you require. The area you require will be included as a lease condition if the application is granted. Disturbed area is measured in hectares (1 hectare = 100 m × 100 m) and includes stripping, excavation, overburden, waste, tailings, plant, hardstand and access.

What is the maximum disturbed area you will require for the next 5 years? .....<sup>2</sup>..... hectares

All security deposits are periodically reviewed as the scale or nature of the operation and area of disturbance changes.

## EXISTING VEGETATION & FAUNA

You may be requested to undertake a flora and fauna survey over all or parts of the application area, as this information may be critical to understanding a potentially significant environmental risk to the proposal.

If a survey is required it must be provided to MRT to assess the lease application.

## CLEARING AND PROGRESSIVE REHABILITATION (*Quarry Code of Practice*, pages 15)

The area of disturbance of an operation should be kept to a minimum, and rehabilitation should be carried out progressively. Clearing should be kept to the minimum absolutely necessary for efficient operations. Topsoil must be protected and the guidelines below should be followed:

- If possible, windrows of topsoil should not exceed one metre in height.
- Topsoil should not be buried or driven on, as this will damage soil structure.
- Overburden should be stripped and stockpiled separately from soils.
- On hillside operations, it is best to store topsoil above or beside the excavation.
- Note that holding a Mining Lease does not authorise topsoil removal from the site.

What area of vegetation is to be cleared? <0.5ha .....

What is the topsoil depth? ..... nil .....

What is the subsoil depth? ..... nil .....

Wherever practical overburden, subsoil and topsoil should be placed directly onto worked out areas, to avoid double handling of soil and maximize the viability of the seed bank.

Is direct replacement of soil possible?

Yes ☒ No ☐

Describe the stripping and stockpile arrangement: Surface vegetation (grass and shrubs and herbs)

are pushed aside to expose the sand resource. The aim is to extract sufficient quantities of

sand to provide for meaningful rehabilitation of the land surface and ultimately improve the amenity of the site.

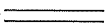





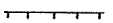

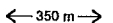



## CULTURAL HERITAGE SURVEY

You may be requested to undertake a cultural heritage survey (Aboriginal and European) over all or parts of the application area.

Please provide a working plan of the operation using the work sheet below. (A spare planning sheet is included on page 12 and a sample mine plan is included on page 13).

### SITE PLAN

See Attached Mining Plan

<b>Please Indicate:</b>			
Access roads		Direction of water flow	
Visual screening		Drainage, settling ponds, process dams	
Direction of working		Stages of operation and rehabilitation	
Bench face		Distance to watercourses and housing	
Dimensions of excavation		<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">North</div>  </div>	
Location of processing plant			
Topsoil and overburden stockpiles			
		QUARRY	DATE
		SCALE	DRAWN



## NOISE AND DUST CONTROL (*Quarry Code of Practice*, pages 16 and 20)

The primary nuisance associated with quarry operations is noise and dust. Where residences exist adjacent to a quarry, precautions should be taken to reduce the impact of noise and dust. Visible dust should be confined within the boundary of the premises. Reasonable operating hours are considered to be 7 am to 7 pm weekdays and 8 am to 4 pm weekends.

What are the planned hours of operation on weekdays? ...7... am to...7... pm

What are the planned hours of operation on weekends? ...8... am to...4... pm Saturdays only

Tick the measures to be used to reduce nuisance dust and noise:

- ☒ Plant located to minimise dust and noise.
- ☐ Enclosures, sprays and dust extractors.
- ☒ Bund walls for noise and wind breaks for dust.
- ☒ Maintenance of roads and machinery for noise, water carts for dust.
- ☒ Controlled vehicle speeds (especially near neighbours).
- ☒ Drop distance to stockpiles kept to a minimum.
- ☒ Covered loads or material not exceeding the tray walls of trucks.
- ☐ Alternative transport route considered.
- ☐ Other.....

## BLASTING (*Quarry Code of Practice*, page 18)

Will blasting be required?

Yes ☒ No ☐ (next section)

Blasting is necessary at some operations. Operators should be aware that blasting may be distressing to the public. Blasting must not take place unless authorised in the Permit issued by Council. Precautions must be taken to prevent fly-rock, noise and vibration.

What is the planned frequency of blasts?.....

Is there potential hazard to residents, traffic or power lines?.....

How close is the nearest hazard? .....

Is there potential hazard caused by excessive noise and vibration? .....

## EXCAVATION AND DISTURBANCE BENCHING (Quarry Code of Practice, page 20)

Will the deposit be benched to win material? Recontoured as required Yes/No (next section)

How many working faces are planned?.....<sup>1</sup>

What is the planned height of working face/s? > 5m .....

Towards the end of the productive life of the quarry, the uppermost benches should be reduced in height. Where possible benches should be recontoured to form slopes by grading them out or back filling. Slopes greater than 30 metres in length should be broken up with drainage berms along contour to reduce erosion.

What is the final land form shape? Benches ☒ Recontoured slopes

What is the planned final face height?.....

What is the planned final bench width? .....

What is the planned final slope of faces? .....

Is the access to the upper benches safe? .....

Orientation of benches should take into account the underlying geology and vantage points from which the quarry is visible. Where practicable, the uppermost benches of the quarry should be established and worked out first. This allows the upper sections of the face, which are often the most visible, to be rehabilitated early in the life of the operation.

Can the uppermost benches be worked first? Yes / No

If No, describe how the quarry is to be developed

.....  
.....  
.....

## NOXIOUS WEEDS AND PLANT DISEASES (Quarry Code of Practice, page 22)

Weed invasion can be minimised by tackling weed infestations quickly. Weeds should be managed until such time as native species are re-established. A list of weeds is shown on page 40 of the Code.

What weeds are on site at present? Broome, Pampas grass, Blackberry, Willow, Foxglove, Elishas tears

How do you plan to control the weeds on site? Weed spraying as required .....

Quarries can also spread the root rotting pathogen *Phytophthora cinnamomi* (PC), responsible for the increasing loss of native plant communities in coastal heath and moorland areas. Gravel free of PC may be stipulated for road contracts in sensitive zones.

Does the quarry produce sand or gravel?

Is the quarry situated in native vegetation?

Is the elevation less than 800 metres?

Is rainfall greater than 600 mm per annum?

Are zones of 'die back' evident in the native heath?

Yes/No  
Yes/No  
Yes/No  
Yes/No  
Yes/No

## DRAINAGE AND EROSION CONTROL (*Quarry Code of Practice, page 24*)

Water leaving quarry premises should be clear and free from contaminants. Water quality may be affected far beyond the premises, affecting downstream neighbours and the environment. Nearly all quarry sites are liable to drainage or erosion problems if run off is not controlled.

Are there downstream water users?

Yes/No

Are clays or other fine material on site?

Yes/No

Will the exposed surface easily erode?

Yes/No

Given the nature of the catchment above, is a diversion drain required?

Yes/No

Tick the control measures which are proposed.

☒ Cut off drain/s?

☒ Drains for pit .....stockpile areas

☒ Drains.....for access road

☒ Culverts

☒ Settling traps for pit

☐ Settling traps for stockpile area

☐ Settling traps for access road

(Please show the above, on the plan)

Certain minerals have the potential to cause acid drainage pollution when exposed to air and water. Likely visible signs include the presence of pyrite minerals and iron-rich precipitates. These may be evident in the form of brown staining on rocks or in water.

Is there evidence of pyrite or acid drainage

Yes/No

If Yes, the operation should be restricted to the oxidised zone.

## WASTE DISPOSAL AND STORAGE (*Quarry Code of Practice, page 26*)

Quarries should not be allowed to accumulate rubbish, disused plant, waste oil or other waste materials. Oil changes should not be done on site unless hydrocarbon spillage equipment is on hand. Chemicals and fluids must be stored according to Australian Standards. Sewerage must be Council approved and landfills approved by the Environmental Protection Authority (EPA).

Are the following goods to be stored on site?

Fuel or oil Yes/No How? .....

Explosives Yes/No How? .....

Other Yes/No How? .....

Are oil changes done on site? No. Undertaken in workshop on private residence nearby Yes / No

What measures will be adopted to control spillage? Spill kit stored in loader. ....

How will you dispose of rubbish and scrap? Routine trips to waste transfer station as required