

## REHABILITATION (*Quarry Code of Practice*, page 29)

The main aims of rehabilitation work are:

- The stabilisation of all worked out areas to minimise ongoing erosion.
- To revegetate worked out areas with suitable plant species.
- To minimise visual impact of disturbed areas.
- To ensure that worked out areas are safe for future uses.

The final land use of the site will determine the final landform, which should blend with the surrounding landscape.

What is the proposed *after use* of the site? Likely to be Mountain bike associated infrastructure.

What *redevelopment/rehabilitation/revegetation* is proposed? Recontour slope. Other rehabilitation works will not likely be required.

Will rehabilitation progressively follow extraction? Unlikely. Yes/No

If 'No', why not? Area is too small to undertake progressive rehabilitation.

What stages of rehabilitation have you identified?.....

Site preparation earthworks are best carried out during early-mid autumn.

Tick the intended rehabilitation site preparation to be used on the check list below:

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> Removal of plant and rubbish          | <input type="checkbox"/> Removal of buildings                          |
| <input checked="" type="checkbox"/> Levelling of bunds and stockpiles     | <input type="checkbox"/> Overburden back filled                        |
| <input checked="" type="checkbox"/> Slopes reduced below 3 in 1           | <input checked="" type="checkbox"/> Slope distance less than 30 metres |
| <input checked="" type="checkbox"/> Compacted areas and roads deep ripped | <input type="checkbox"/> Bench heights reduced to 5 metres             |
| <input checked="" type="checkbox"/> Rippable benches recontoured          | <input type="checkbox"/> Wetlands ponds constructed                    |
| <input type="checkbox"/> Signage/security around remnant benches          | <input checked="" type="checkbox"/> Weed identification and control    |

## REVEGETATION (*Quarry Code of Practice*, page 33)

Are sections of the planned operation visible from main roads etc?

☒ Yes ☐ No

What *landscaping/vegetation* will be *planted/retained*, to screen the operation?

Retain screening vegetation & work the site in such a way that maintains visual amenity.

Establishment of a self-sustaining cover of vegetation is the best low maintenance stabiliser of disturbed sites in the long term. Generally, the vegetation type that existed before the disturbance or a similar vegetation type will be most successful afterwards. Seed application should be done mid-late autumn whilst tree planting is best carried out in early spring.

Tick the intended revegetation measures to be used on the checklist below:

- |  |  |   |
|--|--|---|
| <input type="checkbox"/> Soil importation*         | <input type="checkbox"/> Soil spreading                    | <input type="checkbox"/> Soil tillage/ripping               |
| <input checked="" type="checkbox"/> Direct seeding | <input type="checkbox"/> Cover/nurse crop                  | <input checked="" type="checkbox"/> Spreading of seed slash |
| <input type="checkbox"/> Tree planting             | <input checked="" type="checkbox"/> Fertiliser application | <input type="checkbox"/> Mulching                           |
| <input type="checkbox"/> Water reticulation        | <input type="checkbox"/> Browsing controls                 |   |

\* Note that if soil is imported stringent weed control measures must be taken.

Rehabilitation is a process which may take several years to produce a stable and self-sustaining ecosystem. Maintenance of rehabilitation is vitally important and any failures should be rectified quickly.

Identify the intended follow up measures to be used on the checklist below:

- |   |  |  |
|---|--|--|
| <input checked="" type="checkbox"/> Monitor drainage, erosion control and plant growth. |  |  |
| <input checked="" type="checkbox"/> Follow up fertiliser                                | <input checked="" type="checkbox"/> Weed control | <input checked="" type="checkbox"/> Re-sowing for crop failure |

Do you understand that a security deposit will be imposed on the extent of rehabilitation required, and also that the security deposit will be reviewed if the rehabilitation liability changes.

Yes/No

Before the security deposit is released the minimum standards below are to be achieved:

- The rehabilitated area should be safe and self-sustaining.
- The area must be suitable for the planned final use or rehabilitation objective.
- Rehabilitated areas should be visibly free of active erosion and noxious weeds.
- Revegetation is established and effective over the whole site.

Evaluation of revegetation will be dependent on factors including tree density, species diversity, and vegetative cover. A copy of this document should be retained. Your performance will be measured against it.

Signed:

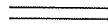
Date: .....

## SPARE SITE PLAN

See Attached Mining Plan

**Please Indicate:**

Access roads



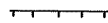
Visual screening



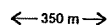
Direction of working



Bench face



Dimensions of excavation



Location of processing plant



Topsoil and overburden stockpiles



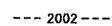
Direction of water flow



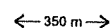
Drainage, settling ponds, process dams



Stages of operation and rehabilitation



Distance to watercourses and housing



North  
N

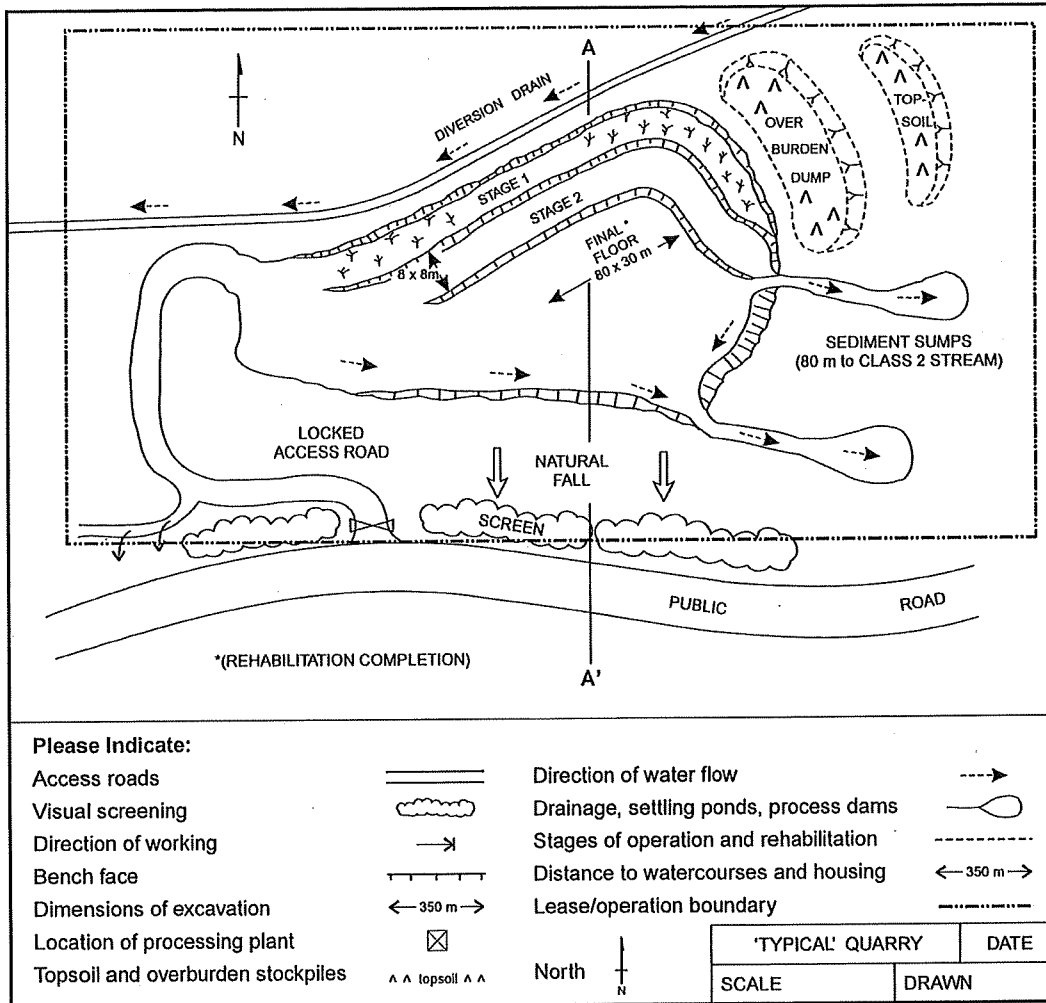
QUARRY

DATE

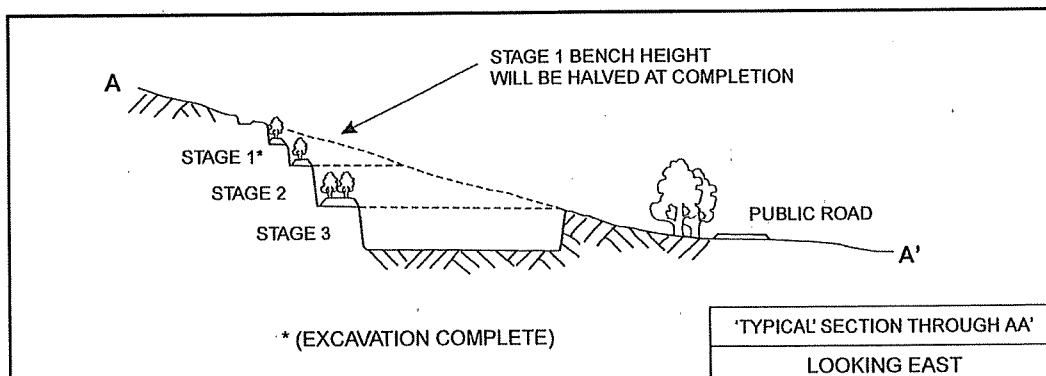
SCALE

DRAWN

## SAMPLE SITE PLAN



## SAMPLE SECTION





**\*CONSTRUCTION MATERIALS (CONMAT) REGISTER:**  
(Please attach materials testing results if available)

What is the rock type? *Dolerite/quartzite/basalt/shale/granite/other* .....

What is the material? *Fresh rock/weathered rock/gravel/sand/clay/fines*

What is the overburden depth? .....

What *is/will be* the average annual production in m<sup>3</sup>? .....

What *is/will be* the average amount crushed per annum in m<sup>3</sup>? .....

Extraction    *Loader (free digging)/Excavator (hard digging)/Dozer (ripping required)*  
                  *Drill and blast (hard rock)*

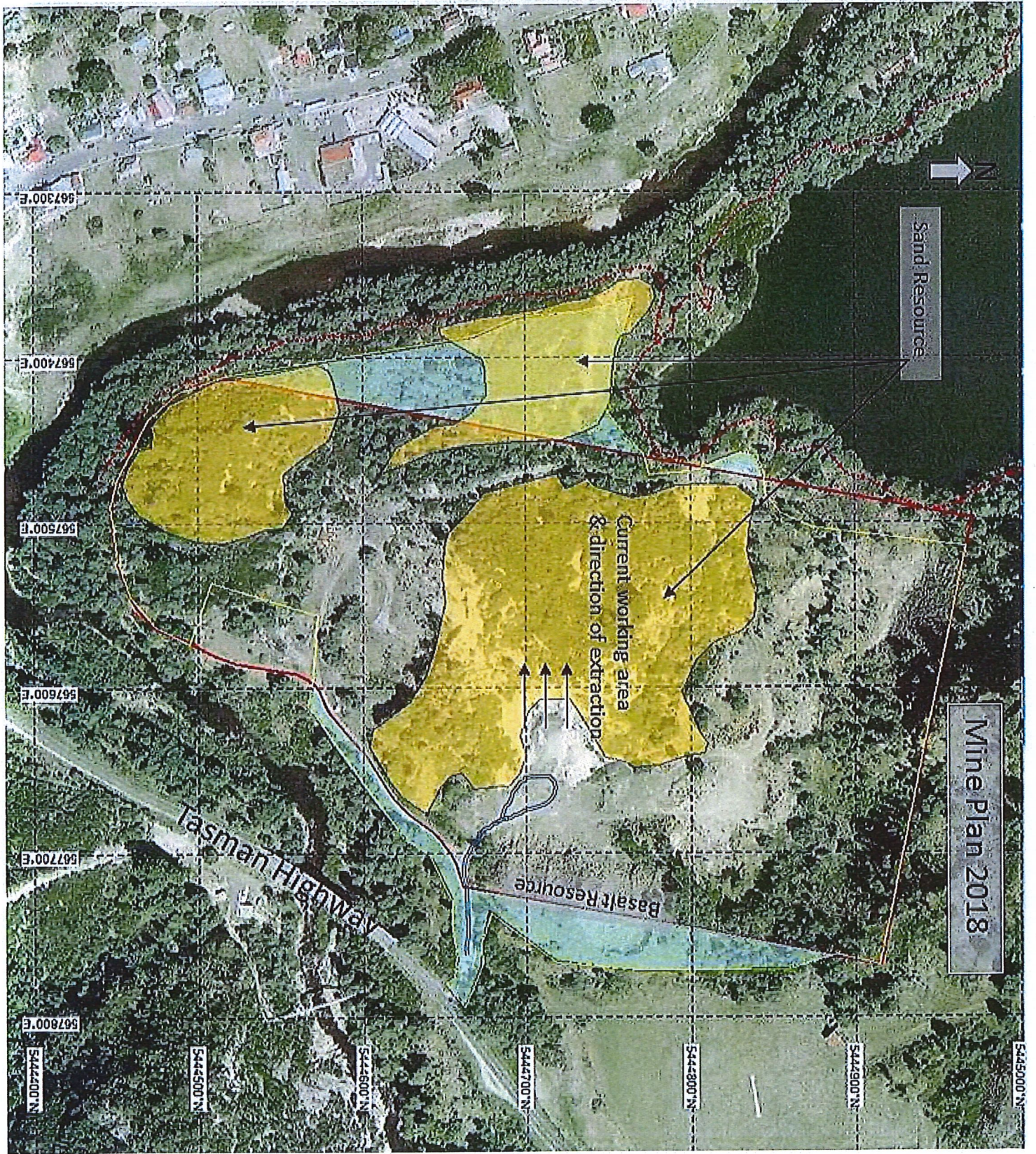
Sizing         *Crushed (maximum size ..... mm)/Screened (maximum size ..... mm)*  
                  *As extracted (maximum size ..... mm)*

Use             *Aggregate/road base/road blending/road sheeting/road sealing/  
                  general road material/crushed stone/concrete sand/building sand/  
                  general sand/silica/building stone/bricks/other.....*

Reserves      *Less than 10 000 m<sup>3</sup>/10 000–100 000 m<sup>3</sup>/100 000–1 000 000 m<sup>3</sup>*  
                  *Greater than 1 000 000 m<sup>3</sup>/not determined*

\*Office Use: Forward this page to Mineral Resources Tasmania,  
PO Box 56, Rosny Park, Tasmania 7018





Sand Resource

Mine Plan 2018

Current working area  
& direction of extraction

Basalt Resource

Tasman Highway

544500 N

544600 N

544700 N

544800 N

544900 N

545000 N

567300 E

567400 E

567500 E

567600 E

567700 E

567800 E

544400 N



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 D19/73802/1: SJ 1M/2019

15 April 2019

REGISTERED MAIL

Mr Derek and Mrs Kail Hayes  
31817 Tasman Highway  
DERBY TAS 7264

Dear Mr and Mrs Hayes

**RECOMMENDATION TO GRANT CONSOLIDATED MINING LEASE  
CML 1M/2019 AT DERBY**

You are advised that under delegation from the Director of Mines, I intend to recommend to the Minister for Resources that a Consolidated Lease is issued in respect of Mining Lease ML 16M/1995 and ML 7M/2018.

Please find attached a draft copy of the grant document which relates to the Consolidated Mining Lease CML 1M/2019 in the name of Hayes DR & KW.

Prior to the recommendation being forwarded to the Minister, you have the opportunity to check the terms and conditions of the lease and make a submission to the Director relating to any of the conditions outlined in the document.

If no response has been received by you within 14 days from receipt of this letter, the recommendation to grant the application will be forwarded to the Minister.

Useful information for lessees is available on the Mineral Resources Tasmania (MRT) website ([www.mrt.tas.gov.au](http://www.mrt.tas.gov.au)), including:

- *Advice to Lessees*
- *Reporting Guidelines*
- *Quarry Exploration Code of Practice*

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

Yours sincerely

Robert Willis  
**REGISTRAR OF MINES**

Encl.

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 D19/73802/4: SJ 1M/2019



 May 2019

Mr Derek and Mrs Kail Hayes  
31817 Tasman Highway  
DERBY TAS 7264

Dear Mr and Mrs Hayes

**ISSUE OF CONSOLIDATED MINING LEASE ML 1M/2019 AT DERBY**

Please find enclosed your copy of the Consolidated Mining Lease which has been issued in respect of former Mining Leases ML 16M/1995 and ML 7M/2018.

The lease is an important document and should be kept in a secure place. The term of the lease expires on 24 October 2020.

If you hold a Permit issued under the *Land Use Planning and Approvals Act 1993*, please contact the Environment Division of the Department of Primary Industries, Parks, Water and Environment to amend the reference to the former lease numbers in the Permit.

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

Yours sincerely

Kevin Robinson  
**DIRECTOR OF MINES**

Encl.

**CC:**

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

Aboriginal (Heritage) [aboriginal@heritage.tas.gov.au](mailto:aboriginal@heritage.tas.gov.au)

Peter Hubble, (StateGrowth) [Peter.Hubble@stategrowth.tas.gov.au](mailto:Peter.Hubble@stategrowth.tas.gov.au)

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

Enquiries, Crown Land Services (Parks) [ConservationAssessments@dpipwe.tas.gov.au](mailto:ConservationAssessments@dpipwe.tas.gov.au)

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

**From:** Siggins, Clint  
**Sent:** Friday, 20 December 2019 3:56 PM  
**To:**  
**Cc:** Wakefield, Andrew  
**Subject:** RE: D & K Hayes

Dear Derek and Kail,

Thank you for your email.

Andrew is away on leave today so he asked if I could pass on his response to your email.

It appears the construction works the Dorset Council are undertaking are inside mining lease 1M/2019. This is not consistent with the area that was surrendered from your mining lease (16M/1995) prior to it being consolidated with 7M/2018 to create the current lease 1M/2019. MRT understands the partial surrender of your mining lease 16M/1995 was for the agreed and sole purpose of providing an area for the Dorset Council to construct the works depot. MRT also understands the Dorset Council agreed to the plan prior to its construction commencing.

MRT will look into the matter and provide a response in due course. However, I would like to take this opportunity to advise you that MRT notes the fact you have raised this issue with the intention of ensuring you maintain compliance with the conditions of the lease and provisions of the Mineral Resources Development Act 1995. Below is an excerpt from your lease which clearly states the lessee is to only use the Lease Area for the Authorised Purpose.

Should you wish to discuss the matter further please feel welcome to contact Andrew or myself via the details below.

Regards,

**Clint Siggins** | Manager Scientific Services  
 Mineral Resources Tasmania | Department of State Growth  
 30 Gordons Hill Road Rosny Park Tasmania | PO Box 56, Rosny Park, Tasmania, 7018  
 Phone: (03) 6165 4739 | Mobile: 0417 017 426 | (03) 6173 0222  
[clint.siggins@stategrowth.tas.gov.au](mailto:clint.siggins@stategrowth.tas.gov.au) | [www.mrt.tas.gov.au](http://www.mrt.tas.gov.au) | [www.stategrowth.tas.gov.au](http://www.stategrowth.tas.gov.au)

**DEPARTMENT OF STATE GROWTH** COURAGE TO MAKE A DIFFERENCE THROUGH:




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out of scope



**From:** Hayes, Kail  
**Sent:** Thursday, December 19, 2019 11:15 AM  
**To:** Wakefield, Andrew <[Andrew.Wakefield@stategrowth.tas.gov.au](mailto:Andrew.Wakefield@stategrowth.tas.gov.au)>  
**Subject:** D & K Hayes

*"Dear MRT,*

*It has come to our attention the Dorset Council are constructing their depot (partly) inside my mining lease boundary (1M/2019). All approvals I have given have related to the Dorset Council constructing the depot on land I have surrendered from my mining lease. Given my responsibilities and obligations as a lease holder I have concerns about what is/has occurred and I would like to know from MRT what can be done to ensure I can continue to comply with the lease conditions."*

Please feel welcome to get in touch to discuss as required.

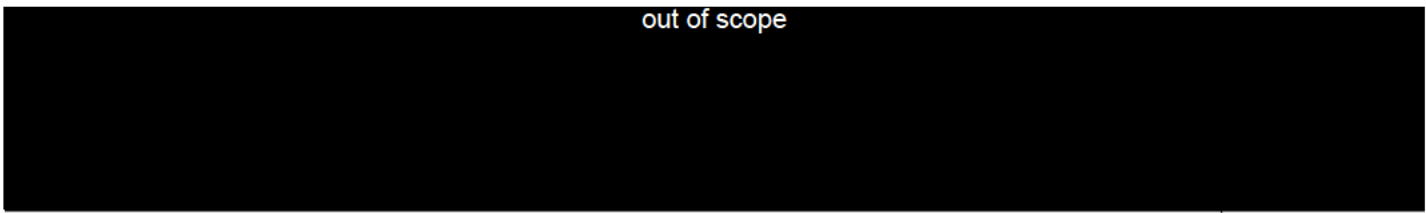
Kind Regards

Kail and Derek

**Kail Hayes**



out of scope



**From:** Hayes, Kail  
**Sent:** Monday, May 18, 2020 9:55 AM  
**To:** Wakefield, Andrew <Andrew.Wakefield@stategrowth.tas.gov.au>  
**Subject:** D & K Hayes

Hi Andrew,

We just wanted to inform you that Derek had a meeting with Tim Watson and Dwayne Griffin on Friday 15/05/2020 on site at the Derby Council Depot.

They asked if Derek would surrender the ground where the depot is built on the mining lease. Derek informed them that he was not surrendering anymore ground to them and that they would have to look at other avenues to require the ground.

They have informed Derek that they are going to arrange a meeting with Crown Land MRT along with himself and Council on site to try to resolve the problem. We don't know when as of yet.

Derek mentioned the run off from the wash bay and they told him they would put a treatment plant in, which we don't want the waste water on the mining lease, could you please ask where the waste treated water is going to end up?

We will wait the outcome of the meeting when it happens.

Kind Regards

Kail & Derek

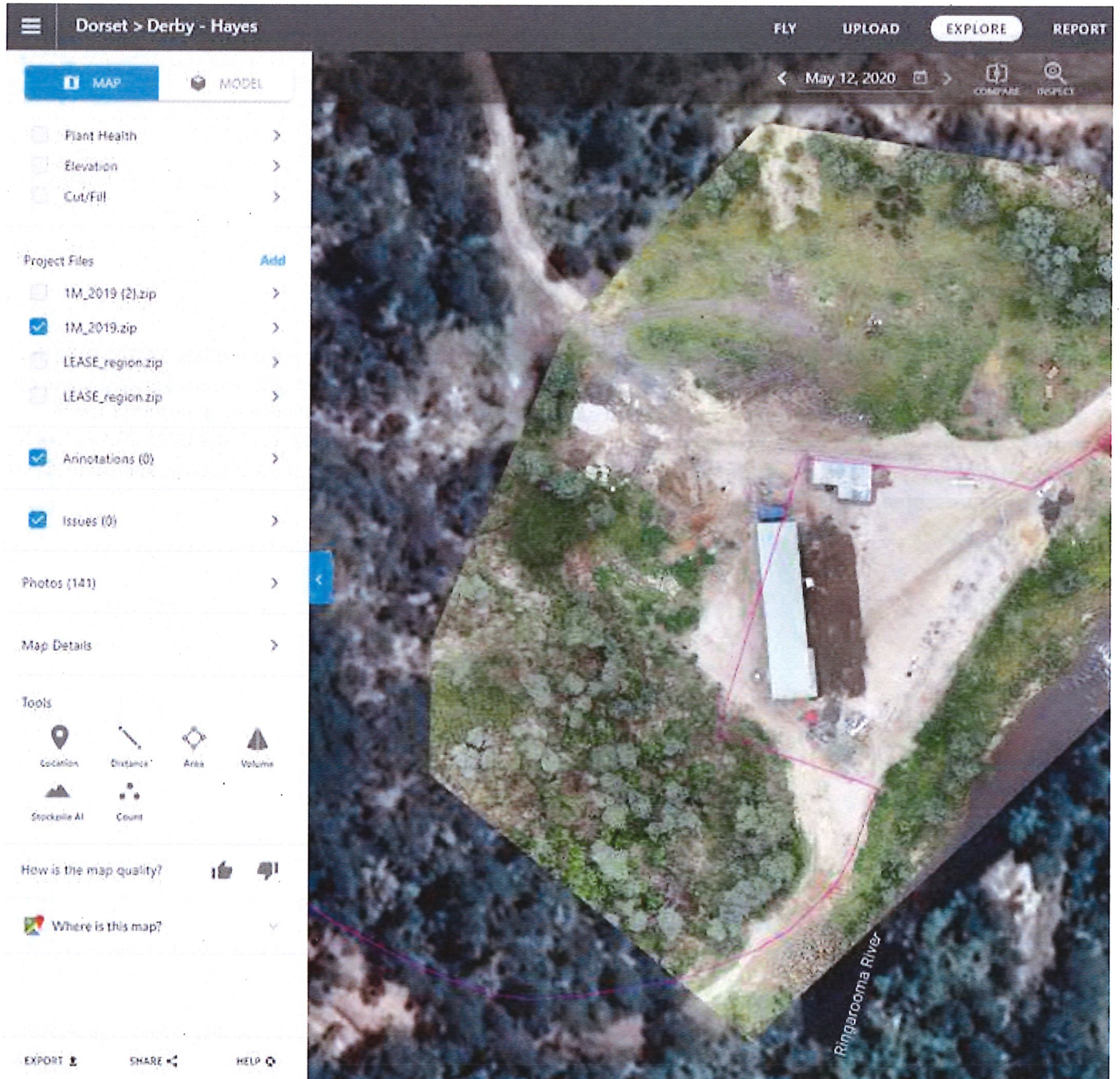
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**From:** Wakefield, Andrew  
**Sent:** Tuesday, 19 May 2020 9:53 AM  
**To:** Hayes, Kail  
**Cc:** Siggins, Clint  
**Subject:** RE: D & K Hayes  
**Attachments:** Drone\_Deploy\_report\_19May2020.pdf

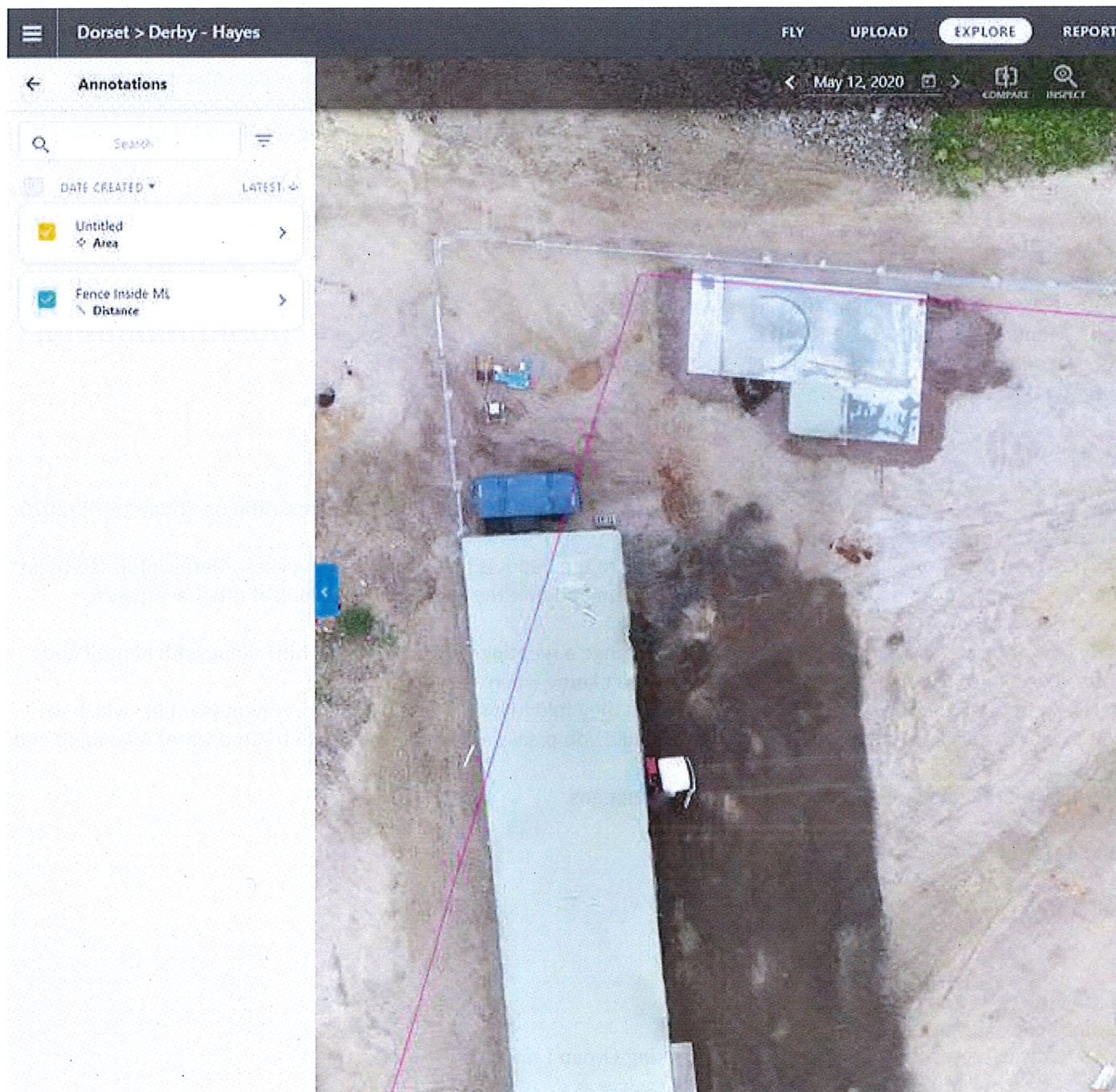
Dear Kail and Derek,

As requested here are a number of screen shots showing the location of the mining lease boundary 1M/2019 with respect to the Dorset Works depot. The imagery is taken from the most recent drone flight undertaken last week on 12 May 2020. FYI the pink line represents the location of the mining lease boundary. Please be aware that the accuracy of the imagery is not exact. However, I have attached a report from Drone Deploy – the platform we use to operate and process the drone and its data, that summarises (somewhat extensively) the limitations and accuracy of the imagery represented.









Please feel welcome to get in touch should you wish to discuss.

Kind regards,

**Andrew Wakefield** | Lease & Licence Inspection Officer  
 Mineral Resources Tasmania | Department of State Growth  
 30 Gordons Hill Road, Rosny Park TAS 7018 | PO Box 56, Rosny Park TAS 7018  
 Phone: (03) 6165 4748 | Mobile: 0408 578 790 | Fax 6173 0222  
[Andrew.Wakefield@stategrowth.tas.gov.au](mailto:Andrew.Wakefield@stategrowth.tas.gov.au) | [www.mrt.tas.gov.au](http://www.mrt.tas.gov.au) | [www.stategrowth.tas.gov.au](http://www.stategrowth.tas.gov.au)  
 Working Monday to Thursday

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---

**From:** Hayes, Kail  
**Sent:** Monday, May 18, 2020 9:55 AM  
**To:** Wakefield, Andrew <Andrew.Wakefield@stategrowth.tas.gov.au>  
**Subject:** D & K Hayes

Hi Andrew,

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They have informed Derek that they are going to arrange a meeting with Crown Land MRT along with himself and Council on site to try to resolve the problem. We don't know when as of yet.

Derek mentioned the run off from the wash bay and they told him they would put a treatment plant in, which we don't want the waste water on the mining lease, could you please ask where the waste treated water is going to end up?

We will wait the outcome of the meeting when it happens.

Kind Regards

Kail & Derek

out of scope

**From:** Siggins, Clint  
**Sent:** Wednesday, 10 June 2020 11:34 AM  
**To:** Robinson, Kevin <Kevin.Robinson@stategrowth.tas.gov.au>  
**Subject:** Site Inspection ML 1M/2019 D & K Hayes Derby

Hi Kevin, as discussed, observations and comments from site inspection ML 1M/2019 D & K Hayes Derby.

The following observations were made during a site inspection of Mining Lease ML 1M/2019 D & K Hayes at Derby on Wednesday 3<sup>rd</sup> June 2020. The inspection was undertaken by Kevin Robinson and I, escorted by lessee Mr Derek Hayes:

- The principle resource at the site is sand derived from the historic Briseis Tin Mine, which is located in three large heaps. The sand resource is effectively already sorted in to two main products, clean bedding sand and a finer grained sand product (adjacent to the recently constructed Works Depot) potentially suitable for other construction purposes including concrete. The bedding sand (located in the centre of the lease) has been used throughout the region on a number of irrigation projects. The resource is freely dug and requires no pre-processing before use making is a very attractive product for consumers. The sand resource is significant and is likely to continue at depth across the lease area to greater than 80m.
- The secondary resource at the site is basalt hard rock 'mullock heaps', consisting of oversize armour rock and in situ basalt that includes 'hopperings' (a basalt cobble/clay mix used as road base). Both products are freely extracted and require no pre-processing. The lessee has also previously had small quantities of the basalt crushed to various aggregates to meet consumer demand.
- In general the resources at the site are unique in that they require no pre-processing and can be sold straight to market. Making the resource very affordable and readily available to local markets. The resource is extracted with a wheel loader or excavator and loaded directly into truck & trailer for transport to markets.
- The site is very well maintained with minimal weeds and no off-site impacts.
- It was observed that the recently constructed Dorset Council Works Depot significantly encroaches onto the mining lease, directly hindering access to the adjacent resource. The following concerns were raised by the lessee and on inspection verified by Kevin and myself.
- The lessee, Mr Derek Hayes, raised concerns with regards to encroachment onto the mining lease of the recently constructed Dorset Council Works Depot. In particular Mr Hayes raised concerns with regards to the following:
  - The Works Depot and boundary fence encroaches onto the mining lease and restricts access to the southern resource as the road is not suitable for heavy vehicles and impedes extraction of the resource due to the proximity of the fence/depot;
  - Discharge from the wash-down bay reports directly onto the mining lease;
  - The wastewater system reports to the mining lease;
  - The TasWater connection crosses through the mining lease.

Regards, Clint

**Clint Siggins** | Manager Scientific Services

Mineral Resources Tasmania | Department of State Growth

30 Gordons Hill Road Rosny Park Tasmania | PO Box 56, Rosny Park, Tasmania, 7018

Phone: (03) 6165 4739 | Mobile: 0417 017 426 | (03) 6173 0222

[clint.siggins@stategrowth.tas.gov.au](mailto:clint.siggins@stategrowth.tas.gov.au) | [www.mrt.tas.gov.au](http://www.mrt.tas.gov.au) | [www.stategrowth.tas.gov.au](http://www.stategrowth.tas.gov.au)

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**From:** Siggins, Clint  
**Sent:** Wednesday, 24 June 2020 11:45 AM  
**To:** Hayes, Kail  
**Cc:** Robinson, Kevin  
**Subject:** RE: Email for Derby Council,

Hello Derek/Kail,

Thank you for your email and keeping MRT advised with regards to your mining lease and the Dorset Council Works Depot.

Kind regards, Clint

**Clint Siggins** | Manager Scientific Services  
 Mineral Resources Tasmania | Department of State Growth  
 30 Gordons Hill Road Rosny Park Tasmania | PO Box 56, Rosny Park, Tasmania, 7018  
 Phone: (03) 6165 4739 | Mobile: 0417 017 426 | (03) 6173 0222  
[clint.siggins@stategrowth.tas.gov.au](mailto:clint.siggins@stategrowth.tas.gov.au) | [www.mrt.tas.gov.au](http://www.mrt.tas.gov.au) | [www.stategrowth.tas.gov.au](http://www.stategrowth.tas.gov.au)

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**From:** Hayes, Kail  
**Sent:** 24 June, 2020 10:39 AM  
**To:** [tim.watson@dorset.tas.gov.au](mailto:tim.watson@dorset.tas.gov.au)  
**Cc:** Siggins, Clint <[Clint.Siggins@stategrowth.tas.gov.au](mailto:Clint.Siggins@stategrowth.tas.gov.au)>  
**Subject:** FW: Email for Derby Council,

Attn: Tim Watson

Meeting at new Derby Council Depot on 22/06/2020

After discussions at the meeting I have rang MRT about the land at the Derby Depot site. I do not want to surrender the land that the depot has been built on

The sand deposit on the western side of the depot is not to be contaminated with waste water from the depot. I know that MRT would have to approve any surrender so this is out of my hands

The problem with the building is in the hands of Crown Land Property Services Group and should be taken up with them. This is a matter between PWS and Dorset Council.

**Regards**

Derek Hayes

**Kail Hayes**