

# Smash & Grab

Kalbar's proposed Fingerboards mineral sands mine project

Alistair Mailer 16<sup>th</sup> June 2021

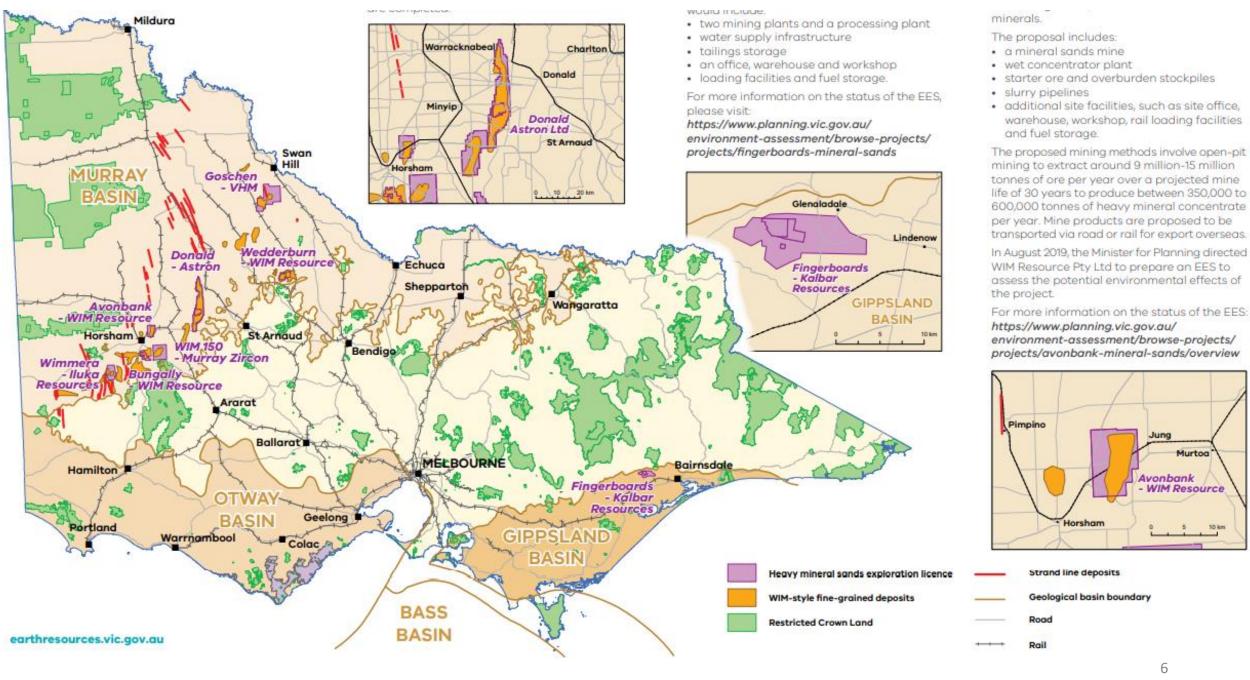


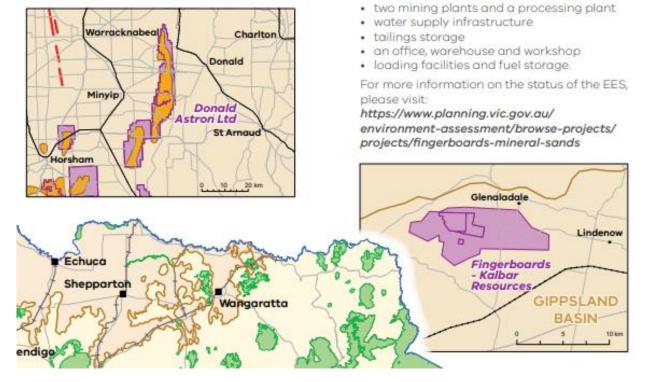


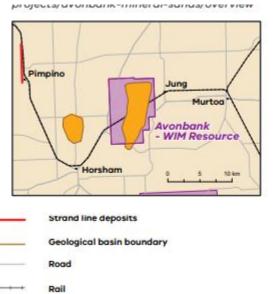
# Centrifuge cake moisture content

- It appears that the solids content of the centrifuge cake could be as low as 63%.
- The Alfa Laval centrifuge test indicated a possible 70% solids, whereas Kalbar's water balance assumed a 73% solids cake
- This changes the ratio of moisture to cake. And hence the water requirement:
  - from 3 GL p.a. for a 63% cake to:
  - 3.48 GL for a 70% cake and
  - 4.76 GL for a 63% cake
- These figures indicate a possible > 50% increase in water requirement and centrifuge throughput, compared to present water balance numbers

Cake moisture content %	Cake solids content %	Ratio of moisture : cake	Freshwater requirement GL p.a.
63	37	0.58	4.76
70	30	0.43	3.48
73	27	0.37	3.0







https://www.planning.vic.gov.au/
environment-assessment/browse-projects/
projects/wimmera-mineral-sands

Wimmera
- Iluka
Resources

Toolando

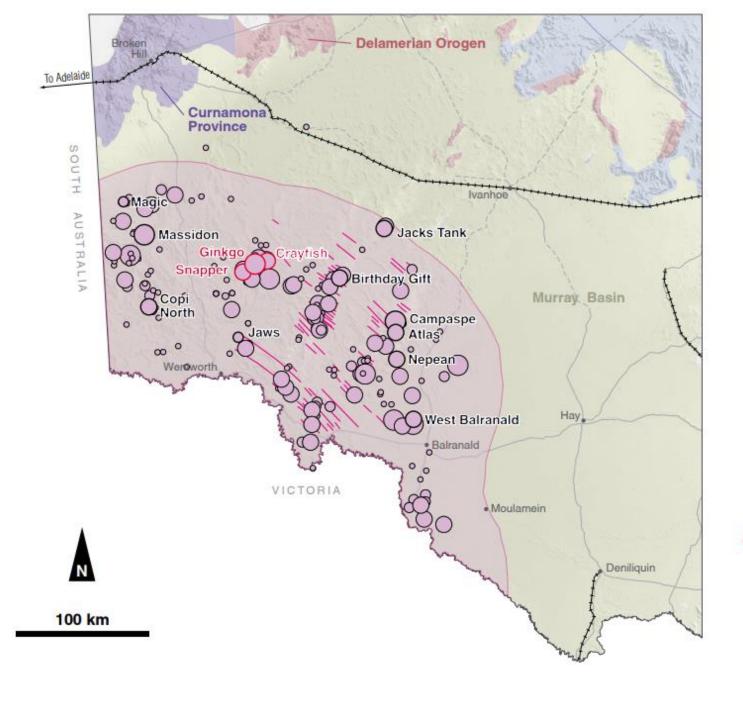
For more information on the status of the EES:

the project.

directed VHM Exploration (now known as VHM Limited) to prepare an EES to assess the potential environmental effects of the project.

For more information on the status of the EES: https://www.planning.vic.gov.au/ environment-assessment/browse-projects/ projects/goschen-mineral-sands-and-rareearths-project







#### REFERENCE

- Heavy mineral sand occurrence
- Small
- Medium
- Large
- Very large
- Ginkgo Operating mine
  - Atlas O Deposit
    - Strand line deposit
    - Approximate extent of Loxton-Parilla Sands
    - ++++ Railway
    - Major road, sealed
    - ---- Major road, unsealed
      - Gas pipeline

#### Heavy mineral sands mining in NSW

### **Project highlights**

Deposit name	Current resources and reserves (JORC)	Total contained HM (t)*
Ginkgo	(measured) 135 Mt @ 2.9% HM, 43 Mt (indicated) @ 1.99% HM	_
Snapper	(measured) 117 Mt @ 5.4% HM	_
Atlas	(probable) 11.3 Mt @ 15.4% HM (indicated) 21.8 Mt @ 9.6% HM	2 092 800
Campaspe	(indicated) 97.37 Mt @ 4.72% HM	4 596 000
West Balranald	(measured, indicated & inferred) 35.8 Mt @ 33.8% HM	12 100 000
West Balranald & Nepean	(combined inferred resource) 50.1 Mt @ 32.2% HM	16 100 000
Jacks Tank North	(inferred) 13.0 Mt @ 1.9% HM (coarse-grained)	247 000
Jacks Tank South	(inferred) 41 Mt @ 2.6% HM (fine-grained)	1 066 000
Crayfish	144 Mt @ 1.34% HM	1 929 600
Massidon	(indicated & inferred) 429.9 Mt @ 2.49% HM	10 704 510
Copi North	(indicated & inferred) 14.2 Mt @ 6.6% HM	937 200
Magic	(inferred) 15 Mt @ 3.7% HM	555 000
Jaws	(inferred) 63 Mt @ 1.9% HM	1 197 000

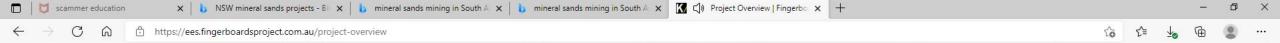
<sup>\*</sup> Total heavy minerals calculated only from resource quoted above (not necessarily total valuable heavy minerals).







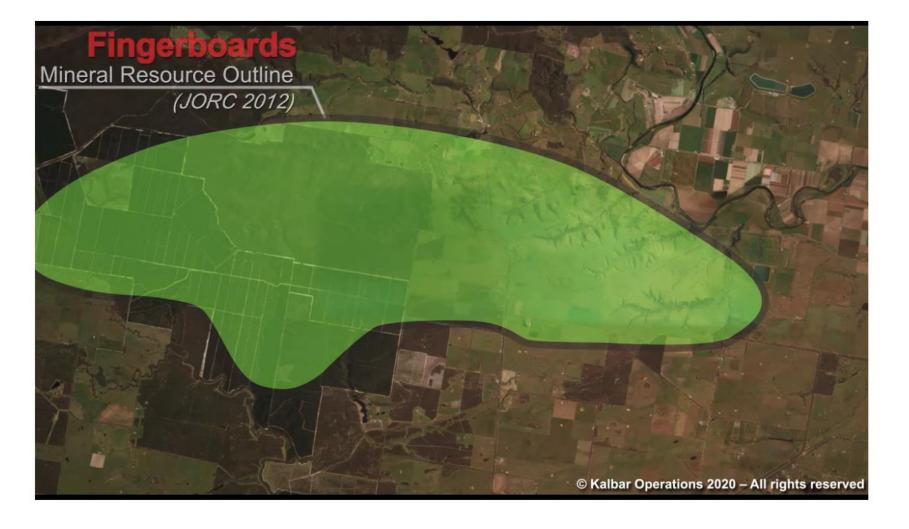




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PROJECT OVERVIEW BROCHURE

#### Project Fly Through













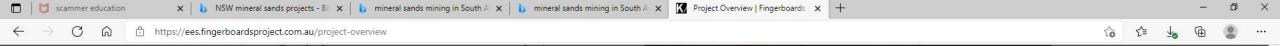








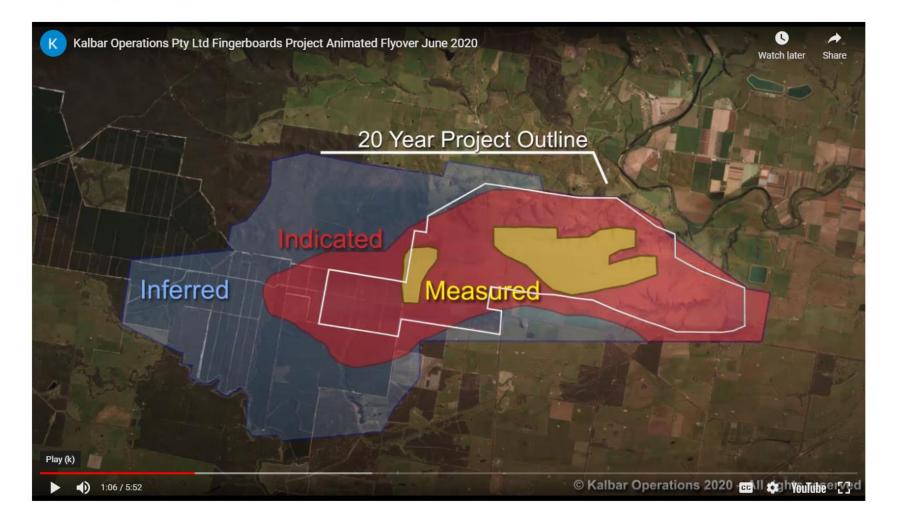




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PROJECT OVERVIEW BROCHURE

#### Project Fly Through

























## Conclusions

- Kalbar is making a GRAB for resources owned by the people of Victoria, as represented by The Crown
- In order to grab these resources, Kalbar are proposing to **SMASH** the local environment;
- This is a heist that East Gippsland can do without;
- The price proposed by Kalbar is unacceptable;
- This is a project, the foundations of which are, quite literally, built on sand;
- The published EES was a half-baked attempt by Kalbar to demonstrate that the social, economic & environmental impacts were either acceptable or could be mitigated to an acceptable degree.
- Even with further information of the project plans, modification after modification, technical note after technical note all have served to reinforce the inadequacy of the exhibited EES.
- Government body after government body (including DELWP, Dept. of Transport & EPA Victoria), expert
  after expert have all verified the notion that many of the statements produced by Kalbar are either notpresent, inadequate, deficient, un-tested, requiring significant additional work, or simply do not address the
  EES scoping requirements.

### Recommendations

- 1. The IAC should advise the Minister that they are not in a position to make a proper assessment of Kalbar's project;
- 2. From what <u>is</u> known, Kalbar's project has unacceptable potential environmental, social & economic impacts, which are in most instances, unable to be adequately mitigated;
- 3. The IAC cannot recommend the project, and further approvals should be denied.
- 4. Kalbar's smash & grab must not be permitted to proceed.