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litres of water, high levels of uranium, untested technologies and a strange backflip by the project's "independent experts". Elizabeth Minter investigates.

For exactly 100 years, Kane Busch's family have farmed the fertile soils of the Lindenow Valley in East Gippsland, Victoria.

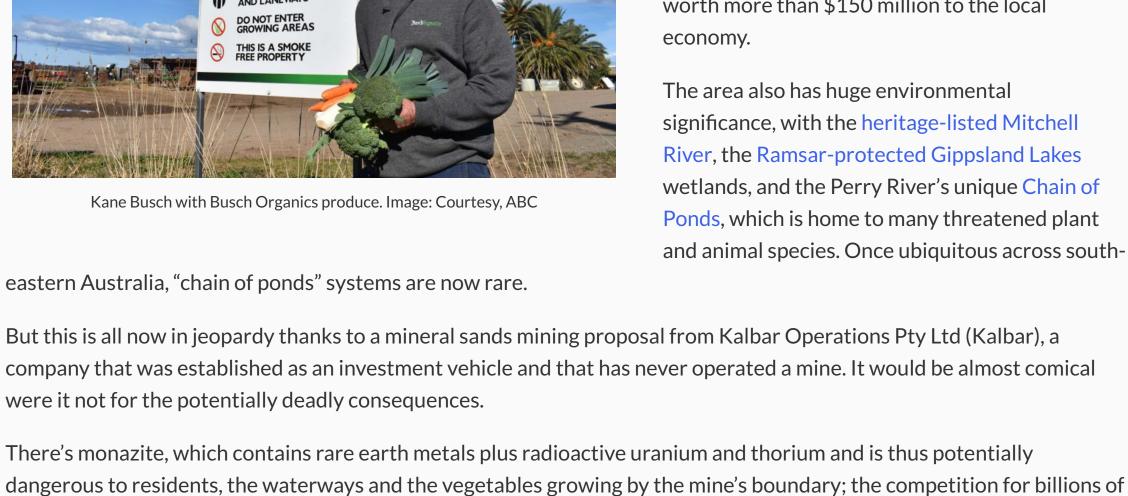
project on rich Victorian farmland has been told about competition for billions of

A hearing into the Environment Effects Statement for Kalbar's mineral sands

After leaving Denmark in 1913, Kane's great-grandfather Eiler Busch settled in the Valley, buying in 1921 the land that is now the home of Busch Organics. Kane's grandfather, also called Eiler, was behind the push for more environmentally friendly farming while experiencing the devastating droughts of the 1990s. The farm gained official organic certification in 2000. Grandson Kane is following in those footsteps, and was recently a finalist for a national award for "Young Grower of the Year".

Buschorganics & The Lindenow Valley produces the salad greens and vegetables - broccoli, green beans, THIS IS A CERTIFIED ORGANIC PROPERTY cauliflower, celery, beetroot, cabbage and carrots

NO UNAUTHORISED ACCESS - that help feed the nation. The Valley produces nearly one-third of the state's vegetables; employs up to 2000 people at peak times; and is worth more than \$150 million to the local economy.



sands mine located so closely to, and upwind of, a major vegetable growing industry.

Big miners walk away, lack of water the key risk

has not included this information on its website.

(other than tank water). The mine and

the horticultural industry will be in

magnitude to those found in commercial uranium mines.

The area also has huge environmental significance, with the heritage-listed Mitchell River, the Ramsar-protected Gippsland Lakes wetlands, and the Perry River's unique Chain of Ponds, which is home to many threatened plant and animal species. Once ubiquitous across south-

litres of water; and the untried technology being proposed to tackle the mining waste. Nowhere in Australia is a mineral Kalbar is proposing a 1,675-hectare open-cut mine just 350 metres from the Mitchell River, which flows into the

not finding a reliable source of up to 6.2 billion litres annually for an acceptable price received a Category F rating, defined as a problem with possibly "no viable solution" and a "fatal flaw". The study also noted that the selling price of the titanium could be cut by about 30 per cent because of the chromium and magnesium contamination. The value of the zircon could be cut by up to 20 per cent because of the contamination of radioactive uranium and thorium.

Kalbar then bought the licences. While Kalbar noted in its 2015 financial report to ASIC the high levels of contaminants. it

Associate Professor Gavin Mudd from RMIT University has told the public hearing that the uranium levels are of a similar

A scoping study it commissioned showed a mine could be viable only if there was a dependable water supply. The risk of

Gippsland Lakes wetlands. The mine will operate 24 hours a day, 365 days a year, for 15 years. A public hearing is under

way as part of the inquiry into the Environment Effects Statement (EES). The following information has been revealed

The multinational miner Rio Tinto originally owned the mining exploration licences. In 2011 Oresome, a subsidiary of

Metallica Minerals, entered into a right to explore and option to purchase agreement with Rio for the licences.

The mine is 3.5 kilometres from the main source of the region's drinking water

Oresome opted not to proceed and handed the project back to Rio Tinto, which also decided not to proceed.

direct competition for water, with both relying on the Mitchell River and the same groundwater.

Kalbar's proposed mine will sit on the plateau high above the Mitchell River with the vegetables

growing just metres from the river.

Kalbar initially claimed in its EES that the mine would require 3 billion litres of

Robbins scoping study.

Water supplies

during the hearing.

Kalbar's consultants acknowledged they had made a mistake in their water estimates. They identified the use of centrifuges to reduce the amount of water required. (Further explanation below.) As for access to groundwater, in the only bore test Kalbar conducted, it encountered difficulties trying to access sufficient water from the aquifer. Kalbar is now proposing a second bore test that is outside the proposed bore field. Kalbar also estimates that only about 400 megalitres a year will be needed for dust suppression across the whole operation, yet it also estimates that 360 megalitres are needed for dust suppression on the haul roads alone.

the impacts of climate change.

consultancy, Ausenco.

The letter added that:

existed."

Treatment of mine waste

water each year, less than half of the 6.2

Just before the EES hearing was to start,

billion litres outlined by the 2012

dam. But when government agencies and others highlighted the extreme danger such a dam posed to the Perry River and the Chain of Ponds, Kalbar changed its proposal.

Environment, Land, Water and Planning that the period from 1975 to the present day should be used to better represent

Also controversial is access to how mine waste will be managed. The mine's original design included a 90-hectare tailings

The mine now plans to use giant centrifuge machines to remove water from the tailings waste, and then reuse that water.

The East Gippsland Shire Council, which unanimously opposes the mine, was not convinced of the viability of centrifuges,

Ausenco's report raised concerns and advised that many more centrifuges would be required than Kalbar proposed. Then just weeks later, of its own volition, Ausenco issued a new report.

It was also revealed that a commercial conflict existed between Ausenco and the project's investment company Appian

This "unsolicited" report, as the council described it, backtracked on doubts Ausenco raised in its first report.

Capital Advisory, a financial backer and, at one stage, the majority owner of Kalbar.

A letter to Planning Panels Victoria from the shire council's legal representative stated that:

for an entity which is ultimately the 100% owner of the Fingerboards Mineral Sands Project."

which are untested in mineral sands mining. The council commissioned a report from an independent mining industry

"Ausenco has since informed us of the existence of a 'commercial conflict' having arisen in relation to the work it was engaged to undertake on behalf of the Council....

Radioactive dust a hazard

prevailing winds can reach more than 100kmh, dust will inevitably be generated, a point Kalbar acknowledges.

This was not a strategy proposed by Kalbar's air quality consultant Katestone Environmental Pty Ltd.

When asked during the hearing how dust could be controlled, a spokeswoman for Kalbar's consultants RMCG suggested

"You just can't protect the fields from the dust," says Kane Busch. "My employees are out in the fields all day; and they

Kalbar plans to mine for and partially refine

Airborne dust generated from mineral sands

mines not only contains toxic heavy metals and

radioactive monazite, thorium and uranium but

also respirable crystalline silica, which leads to

The heavy metals can also accumulate in soil,

pastures and crops where dust is persistent.

Opponents of the mine argue that given

the background is the location of the proposed mine.

the deadly lung disease silicosis.

earths minerals.

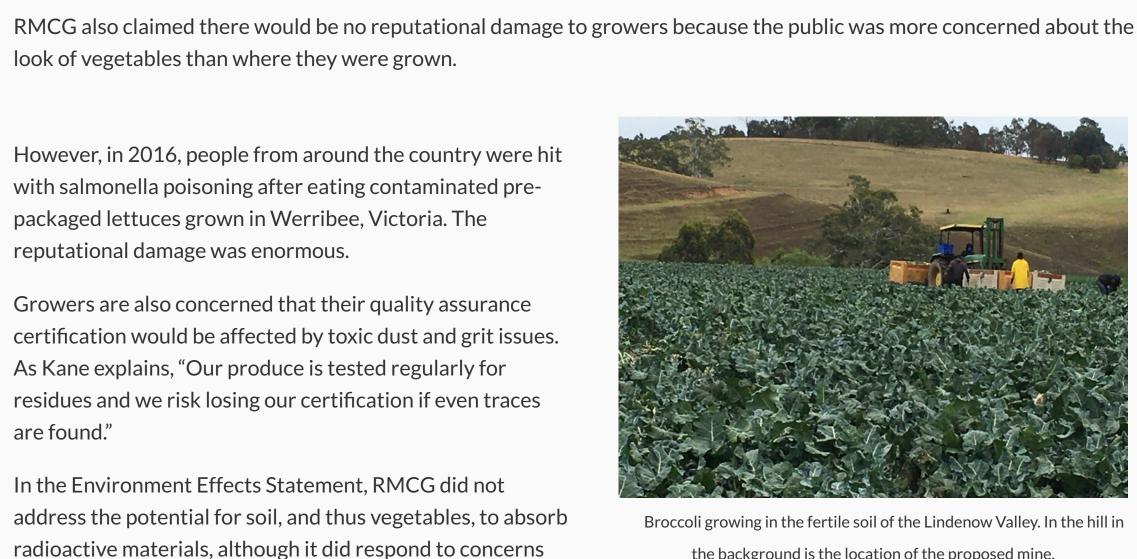
zircon, titanium-bearing rutile, ilmenite and rare

Residents outside Victoria's Parliament House protest against the proposed Kalbar mine.

windbreaks would be used.

have young families. The risk is too great."

Reputational damage to growers



about surface dust. It suggested this would be largely

them.

during transport.

contamination.

A perfect storm

steep gullies, above the Mitchell River.

resolved because people wash vegetables before eating

In SGS's Radiation Assessment Report in the EES, it states (p.48):

all vegetables are washed to remove any potential contaminants (e.g. insects, nuisance dust and pesticides) prior to human consumption, further reducing the potential for any uptake." Rather than being "normal convention" to wash vegetables, growers have given evidence that many vegetables are not

washed immediately before or after harvesting because this can introduce diseases and/or affect the life of the vegetable

Furthermore, while there is a clause that says growers can be compensated for crop damage, they have to prove the

Kalbar has not conducted baseline studies, making it impossible for growers to argue what was the source of the

Its consultants also used unrelated, five-year-old Bureau of Statistics data to value the Lindenow Valley horticulture

source of the contamination and take legal action, which would be financially prohibitive.

industry at just \$62.6 million annually, far less than government estimates.

"Irrespective of the potential for any direct deposition of radioactive material on to crops, it is normal convention that

contaminated water and suspended solids will cascade into the river and on to the vegetable fields.

So it seems incongruous that while the farmland is protected, the government is considering the approval of a mine that poses dangers to the very land highlighted as being so valuable. Michael West Media put questions to Victoria's Agriculture Minister Mary-Anne Thomas but has not yet received a

Meanwhile, local residents and growers say that co-existence with such a mine is simply not possible.

this information is not included on your website. Shouldn't this information be publicly available?

In the foreground is the Lindenow Flats; the mine site is on the plateau high above the Mitchell River

2. Why did your consultants use five-year-old data to value the Lindenow Valley horticulture industry at just \$62.6 million annually, when more recent figures show a significantly higher value? 3. Why are you conducting a bore test in a field that is outside the proposed bore field?

Kalbar responded: "We refer you to our Fingerboards Project website to review all the EES documentation

1. In its 2015 financial report to ASIC, Kalbar noted the high levels of contaminants in the zircon and titanium. However,

4. Why did you use rainfall data over a 117-year period (1900-2017) when department recommendations advise using

https://ees.fingerboardsproject.com.au/. Kalbar Operations is following the Environment Effects Statement approval

process and currently the Inquiry and Advisory Committee, appointed by the Minister for Planning, is undertaking the Panel Hearing as part of the approval process. Further documentation relating to the EES and tabled at the Hearing can be found on the Engage Victoria website https://engage.vic.gov.au/fingerboards-IAC. Kalbar Operations looks forward to completing the EES approval process and the Minister's decision in due course."

Mixed messages from the state government

response.

Editor's note

permanently safeguarded from mining because of its high value.

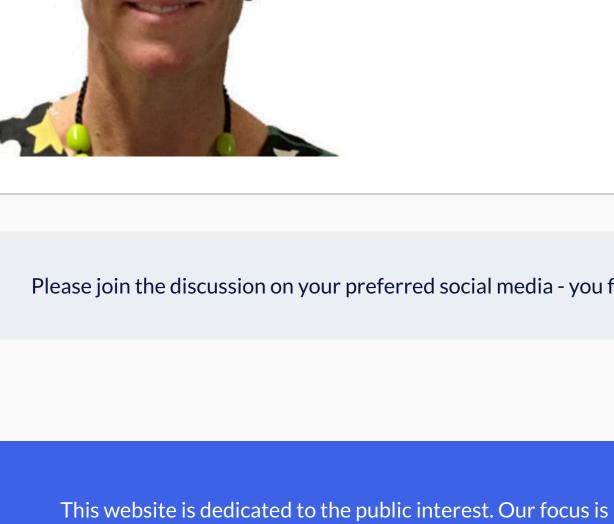
"The horticulture industry is being treated with contempt," says Kane.

Michael West Media put the following questions to Kalbar.

the period 1975 to the present day?

ABOUT THE AUTHOR

worked at The Age newspaper for two 10-year stints. She also worked at The Guardian newspaper in London for more than seven years. A former professional tennis player who represented Australia in the 1984 Los Angeles Olympics, Liz has a Bachelor of Arts and a Bachelor of Letters (Hons). Her Twitter handle is @LizMinter\_



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Elizabeth Minter

A 30-year veteran of the mainstream media, Liz is the editor of

Michael West Media. Liz began her career in journalism in 1990 and



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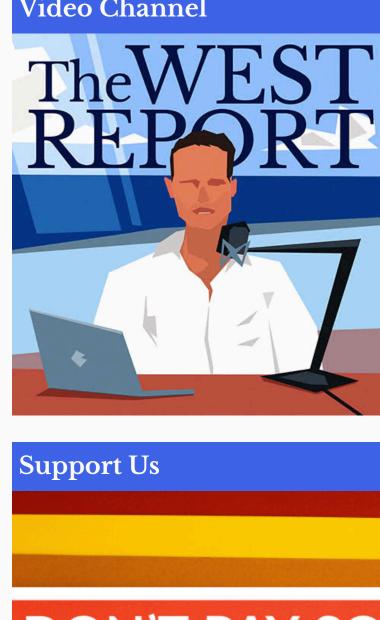
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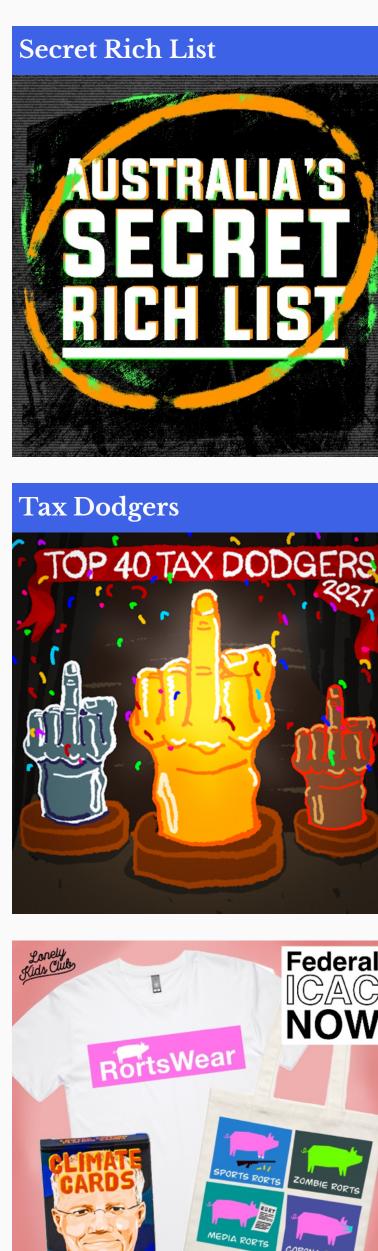
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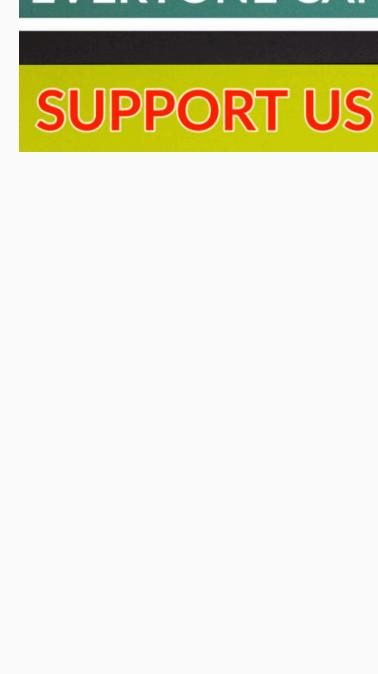


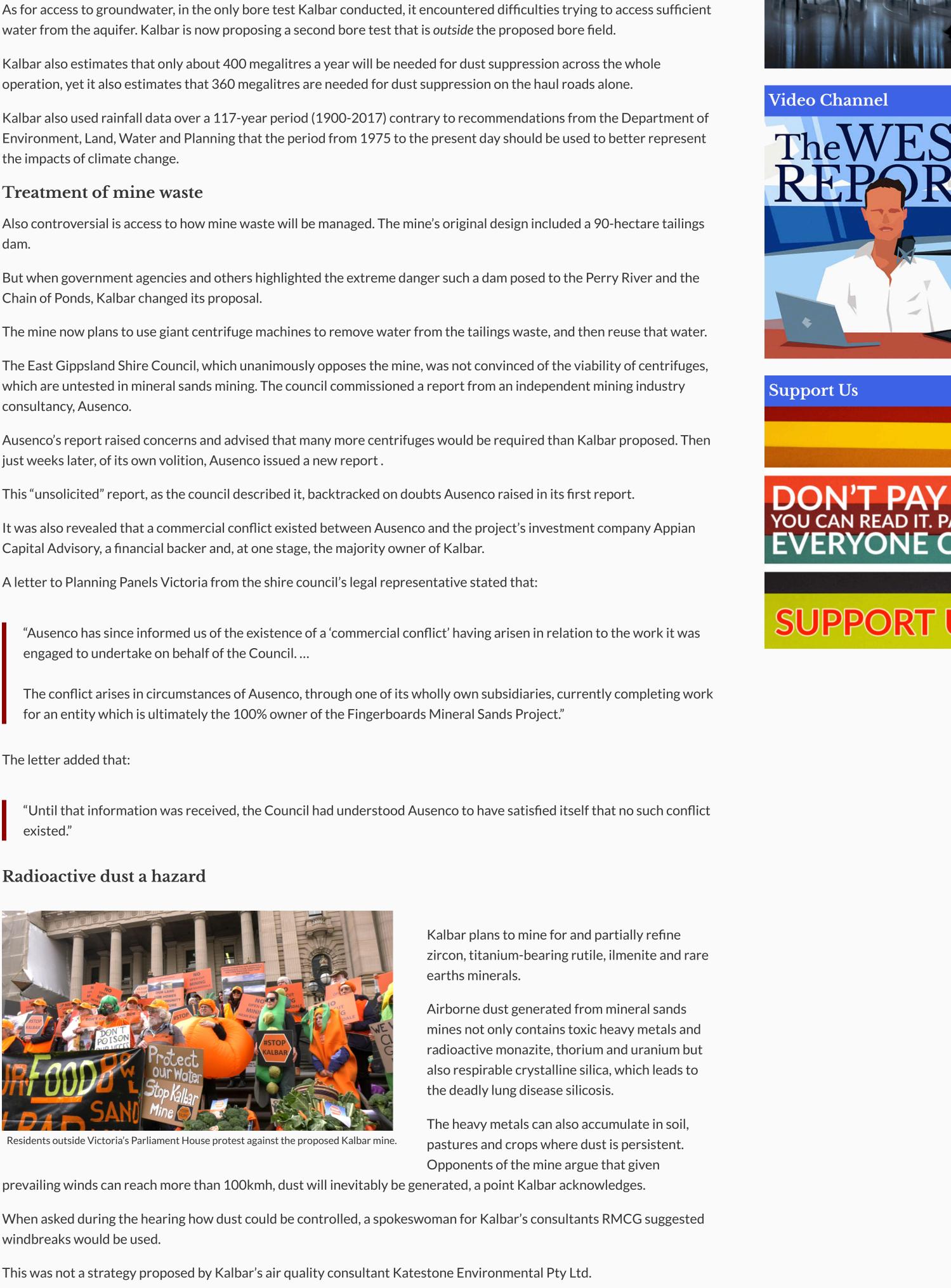


2h Freedom of Expression and Freedom of the Press. If the treatment of @friendlyjordies and his producer Kristo Langker wasn't proof enough... #auspol https://twitter.com/Senator\_Patrick/status/140529









"It's a perfect storm," says Kane. "The mine will be up there on a plateau, right above the vegetable growing area." Most mineral sands mines in Australia are on flat land. But this one will be excavated on hilly country with a number of Opponents have noted that with 19 water catchment dams planned on those gullies and creeks, if any don't hold, the Nearly two years ago, in July 2019, the Victorian Government announced that the Lindenow Valley would be

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