

Monday February 10th, 2014

Mark Howe
Business Support Services Officer
Mining Regulation and Rehabilitation Branch
DMITRE
GPO Box 1264
Adelaide SA 5001

Re: Mining Lease Proposal MC 4322 (INCORPORATING EML 5686) Over
Allotments 1, 2 & 5 Hundred OF Nuriootpa Between Freeling and Greenock by
Kara Resources Pty LTD 40 Churchill Road North, Dry Creek SA 5094 "Dolomite
Deposit."

We object to the proposed mine going ahead in any shape or form.

Regards,
Andrew Verner
Debra Verner
David Verner
Lauren Verner
Matthew Verner
Ryan Verner

NB. All heading numbers and headings correspond to those in the MLP Version 3.

1.1 Local Community

Statement: *"The closest residential properties (two) are east and west, within a kilometre distance of the proposed mine boundary."*

Response: There are two properties on the western side of the mine. One is 220 metres from the proposed mine edge, Stage 2. Another is not much further from the proposed Stage 2 mine edge.

Statement: *"The local community is made up of scattered local farms used for grazing and cropping."*

Response: The local community actually consists of 18 homes within 2km of the mine. This includes the Nain community which begins 1.2km from the mine, lifestyle properties and local farms.

1.2 Land Use

Statement: *"The land is used for cropping and grazing."*

Response: The land is actually used for cropping, grazing and leisure activities as many of the locals in the area are there purely for residential and lifestyle reasons.

1.3 Proximity

Response: The MLP Version 3 fails to state that 18 homes, farms and lifestyle properties are within 2km of the mine, or that the Nain Church etc. are all heritage listed, and that some of the oldest sites in the Southern Hemisphere which are within 1.3km from the mine.

1.4 Amenity

Statement: *"No public amenity will be affected upon by the operation."*

Response: Two residences on Old Kapunda Road, three residences on Keane Road, three on Nain Road, and the Nain Lutheran Church have from reasonable to excellent views over the proposed MC4322.

Statement: *"The quarry will become completely defined to a depression within the hillside with no visual impact"*

Response: The above statement appears to be ludicrous, particularly when eight residences and the Nain church all have good views over the proposed 80 hectare site, and most are approximately 50 metres above the proposed site.

Statement: *"Dependent on the mine's progressive status."*

Response: The above statement would appear to contradict or bring into question all previous statements.

1.5 Noise

Statement: *"The region is generally dusty in the summer months due to the surrounding unsealed roads, cropped and grazed paddocks as is common to any region in South Australia. A small to medium isolated quarry pit will not pose significantly increased impacts on the local area."*

Response: All locals will state that this is not a dusty area (refer also to Attachment A), and is completely different to what is common in other regions in South Australia.

Statement: *"The operations and crushing process will involve the use of a water truck and poly-citrus based dust suppressant systems to control and minimise both surface and processing dust omissions on site."*

Response: This statement appears contradictory as supposedly no dust is being created. They also state that the water truck will only be brought onsite as required and that there will be dry crushing and screening taking place.

Statement: *"As with our other quarry operations, management will review dust control on a daily basis, taking into consideration wind direction and velocity, to determine if the process of crushing will have an adverse effect on the local community and environment."*

Response: Kara Resources do not have a good reputation for dust control. It is quite common for people travelling past their Kulpara operation to speak later of the dust from that quarry billowing across the road. Neighbours of the McClaren Vale quarry also speak of being inundated with dust. Obviously the other quarries, along with this proposed one if it begins, will crush, screen etc. if they have to on days that will have an adverse effect on the local community and environment.

Statement: *"There are no proximate receptors that will be affected."*

Response: Allegedly, no one that lives locally exists according to this statement.

1.6 Topography and Landscape

Statement: *"Raised beyond any local surface drainage catchments and water tables."*

Response: The proposed mine will drain into the local catchment which is part of a NRM area.

Statement: *"There is a shallow surface drainage swale that bisects the property which will not be impacted upon by mining activity for at least 40 years. Eventually it will be removed in the advancement of mining, where the area will remain as a depression."*

Response: The drainage swale carries large amounts of runoff from the Nain Hills etc. and is part of a catchment area. To create a depression will completely stop water in its natural course through the natural catchment area.

1.9 Hydrology

Response: Allegedly, water from the MC4322 does not drain into a water catchment, which appears to be a false statement. The severe drainage swales through the area of the MC4322 carry large amounts of local surface water from the Nain hills through the property and into several creeks, i.e. The Walker Creek catchment and others.

1.10 Groundwater

Response: No mention is made of whether contact will be made with groundwater if the proposed mine operations begin and move off the hill through the large area of the MC4322.

1.14 Heritage

Statement: *"There is no known Aboriginal, European or Geological monuments onsite."*

Response: The fact a 400 metre stone wall runs along and over the hill on Nain Road along where they are proposing to dig first must have slipped their minds. A well-known Freeling business AgPoint "Aust" started at the well-appointed ruins on the North West corner next to the MC4322.

1.15 Proximity to conservation areas

Statement: *"The mine area is not in proximity to any conservation areas."*

Response: The Mine is in close proximity to the Nain Hills, Daveyston Preservation Area and the heritage listed Nain buildings.

2.2.1 Geological Environment

Statement: *"A dirt road (Nain Road) cuts obliquely across the strike of the sedimentary sequence."*

Response: Doesn't this mean that the mine area will become larger with time and end up as a large hole not a shallow depression? Also that it will not be able to be returned to its original cropping state.

2.3.1 Type of mining operation to be carried out

Statement: *"The type of mining to be carried out is open cut where a small hill is quarried to a level base or shallow depression and returned to a grazing paddock."*

Response: Isn't it meant to be returned to its original state as a cropping paddock?

2.3.2 Sequence of mining and rehabilitation operations

Statement: *"This operation will be a simple form of mining, with the removal of stone from a raised hill deposit using two to four benches."*

Response: There is no mention of what mining will occur over the rest of the MC4322.

2.4.1 Description of mine site at completion

Response: This section appears to be immaterial as it only matters if the mine depth stops at 24 metres, however most indicators point to a depth of 48 metres and eventually deeper as they move across the MC4322.

2.5.1 Modes and hours of operation

Response: Most similar mines operate for longer hours than stated in this section, especially when supplying specific contracts. If this mine was approved, the only hours that would suit most locals would be 8am until 4pm, five days a week only.

2.5.2 Use of explosives

Statement: *"In line with our other company quarries, our management practice will provide a phone call to local residences that will indicate the time frame for all blasting on the day."*

Response: How will they guarantee contact with the 39 neighbours within 2km of the mine, those who rent residences, the various sharefarmers, people who lease land locally, local contractors, plus those who drive, walk, and move machinery and livestock through the local area? Many of these people have timetables that can't be worked around the proposed mine's schedule for blasting etc.

2.6 Stockpiles

Statement: *"All stockpile areas are located on the plans."*

Response: This statement does not mention what is to happen over the larger complete area of the MC4322.

2.7.1 Fixed Plants

Response: This mine is estimated to close in 2100, but is likely to continue for longer if it grows in size. Everything on this mine site may as well be classed as permanent as it will be there for several generations if the proposed mine MC4322 proceeds.

2.7.3 Hours of Operation

Response: If the mine proceeds these hours are unacceptable due to the many various lifestyles and residential properties around the mine.

2.8.1 Overburden

Response: These piles of overburden will only add to the dust levels as wind erosion occurs. They will also add to the sediment that washes off the property as rainfall erosion occurs. As the initial diggings are above the drainage zones, this sediment will enter the catchment areas on bigger rainfall events. These piles may never grow enough cover to stop wind and rain erosion for decades.

2.8.3 Industrial and domestic wastes

Response: Personal experience indicates that while not allowed, some of the above mentioned waste will end up buried onsite.

2.8.4 Silt control and drainage

Statement: *"Silt will not be produced on site as there is no watering process for this operation."*

Response: in 1.5 MLP Version 3 it states that poly-citrus based dust suppressants will be used to control and minimise both surface and processing dust omissions on site. This is a watering process. They also discuss the future use of a pug mill for wet product and of watering loads to stop dust. All of these processes produce silt as does rainfall when it falls onto fine dust particles, which will be plentiful due to truck movements and processes.

Statement: *"Runoff from normal rainfall will remain onsite to filter into the immediate area. Bunding around the site will prevent any open area runoff from entering the natural drainage catchments."*

Response: As their initial site start-up will cover approximately 25ha, all bunding and silt traps will need to be big enough to stop any water leaving the site, as all poly citrus products for dust suppression are not allowed to enter waterways. As all of Stage 1 is above the waterways, maximum rainfall events of 116mm per day are possible. Rainfall events covering several days are possible in this region, which means that silt traps and bunding would be required to hold approximately 90 million litres at the very least, otherwise silt, sediment and polluted water will be able to leave the site and enter water catchments.

2.9.2 Accommodation and offices

Response: Ugly ATCO huts and mobile toilets etc. What lovely things to fit in with the beautiful amenity of the area for an estimated next 86 years. They are virtually permanent so should have to go through normal council development planning processes.

2.9.3 Public roads, services and utilities used by the operation

Response: Once the mine is at full production levels, traffic volumes will equate to over a 500% increase on Nain Road and Old Kapunda Road. These increases will make it impossible to move livestock and machinery along these roads and create danger for residential and tourist traffic.

2.9.4 Visual screening and site security

Response: This entire section forgets that eight properties will see all or part of the mine from day one of production if it proceeds. The Nain Church and our property have an unrestricted view and the other 6 properties will see most of the mine site at all times. They will never be able to minimise the visual impact on these properties due to the size of the proposed mine and the mostly elevated positions of the neighbouring residences.

They mention 161 Keane Road as one of the nearest residents but have made no mention of our property which is of a similar distance from the mine. No

mention is made of the Nain Church or the other properties in Nain, of which there are five in total from which the mine is in view.

The visual impact for all visitors to the Nain Church and cemeteries will also never be able to be minimised due to its elevated position. This beautiful visual amenity they currently enjoy will be permanently destroyed if this mine proceeds.

2.10 Water Use

Response: They have stated previously that this mine will use dry crushing and screening and that there will be no dust issues. Their statement indicates that they will need dust suppression during the production stage, also that a pug mill may be installed as markets mature. They also indicate that truck loads may need to be wet down, as well as roads and stockpiles.

The MLP indicates that they will be making wet mix as part of their production. Mines of similar production, if making wet mix as part of their activities, would use at least 500,000 litres of water a day if producing 500,000 tonnes of product a year. This mine would need more water than this as it is exposed to the elements due to its natural central amphitheatre position.

All of its operations will be exposed to the wind for many decades if not for the mine's entire life. Most other mines have some natural shelter because they are not normally begun in the middle of a prime cropping zone. These estimates of water use for adequate dust suppression and all other requirements have been estimated to be double that of a normal existing mine for the area. This means that approximately 1million litres a day would be required, an amount which is not available locally. The best estimates of available water from the SA Water meter onsite is 22 to 44 litres a day on days when local water use is high. There are historic water issues in the area and parts of Freeling are also fed from these mains. Sometimes stock troughs and homes have no or little water during hot spells and the main regularly bursts. This means that the pressure flow in the main may not be able to be increased without causing major infrastructure damage.

All in all, dust suppression will not be able to be achieved as any water onsite will probably be used for wet mix production. As the requirements for wet mix alone are large, the main will be on constantly, depriving a large part of the local community of water for stock and basic requirements.

3. Results of consultation

Response: The owners of much of the MC4322 have told us that they have sought legal intervention and have not and will not give permission for any mining on their land.

The owners of 361 Old Kapunda Road have told us that there has been no contact made with them apart from the letter that everyone else received.

The council have received several applications in relation to this mine and on several occasions have requested additional information with no response from Kara Resources.

In the notes it states: "However, if or when issues are raised, they will be actioned accordingly." 39 landowner's residences within 2km of the mine were contacted by Kara Resources. Most sent in submissions to Kara Resources last November, however no one has had any contact or had any issues raised dealt with in any shape or form.

The last statement in the notes in this section reads: "*There are no close proximity*

receptors that would be affected. This is a low to medium impact excavation activity. The land will simply be lowered and returned to a paddock for crop cultivation and grazing.” This is a huge statement to make when so many local people and businesses will be affected. The simple fact is that this is a large mine and will create a huge negative impact if it were to proceed. The land will not be returned for cropping as it is hard to crop a hole full of water.

4.1 Public Safety

The MLP Risk Matrix indicates a rating for Public Safety as “Negligible” with a likelihood of consequences at Category 2 as Rare/Low. This Submission rates the effect as “Extreme” and Category 5 as Virtually Certain/High.

Risk matrix			Likelihood of consequences				
			1	2	3	4	5
			Virtually impossible	Rare	Unlikely	Likely	Virtually certain
Severity	E	Negligible effects	Low	Low	Low	Low	Low
	D	Minor effect	Low	Low	Medium	Medium	Medium
	C	Major effects	Medium	Medium	Medium	Medium	High
	B	Severe effects	Medium	Medium	Medium	High	High
	A	Extreme effects	Medium	Medium	High	High	High

- Green represents MLP Risk Matrix rating
- Blue represents this submissions ratings

- As we have an autistic son and many visitors who are also autistic and some are referred to as runners in autistic circles which means they may quickly disappear down a road or through paddocks. While most will avoid traffic, road signs or paddock signs, will not stop them entering the mine site, as many would not understand the signs.
- No allowance has been made for shutting public roads, as some will be in blast zones during blasting times i.e. Nain Rd and Schwartz Rd
- Farm fencing is not adequate to keep people and native fauna out of the mine site, especially during blasting.
- No guarantees are being made that blasting will not occur if all people have not been contacted before hand. Leaving a message is not a guaranteed contact.

- There are no guarantees being made that high quality, low impact explosives will be used.
- No guarantees are being made to compensate people or accept legal liability if blasting occurs and contact has not been made appropriately and death or injury to persons or livestock etc. occurs.

4.2 Traffic

The MLP Risk Matrix indicates a rating for Traffic as “Minor” with a likelihood of consequences at Category 3 as “Unlikely/Medium”. Without further clarification/information, this Submission rates the effect as “Extreme” and Category 5 as “Virtually Certain/High”.

Risk matrix			Likelihood of consequences				
			1	2	3	4	5
			Virtually impossible	Rare	Unlikely	Likely	Virtually certain
Severity	E	Negligible effects	Low	Low	Low	Low	Low
	D	Minor effect	Low	Low	Medium	Medium	Medium
	C	Major effects	Medium	Medium	Medium	Medium	High
	B	Severe effects	Medium	Medium	Medium	High	High
	A	Extreme effects	Medium	Medium	High	High	High

- Green represents MLP Risk Matrix rating
 - Blue represents this submissions rating
- We regularly see people walking the local roads as we do as well. Any increase in traffic will prevent us from doing this as it will become dangerous with large traffic volumes
 - There is no way to guarantee that traffic to and from the mine will not use Nain Rd at times towards Greenock and Daveyston etc. It may be mineworkers etc. or empty trucks.

- Any increase in traffic will cause extra wear on the bitumen section of road in Nain that was paid for by residents. Will Kara Resources accept responsibility for the wear and tear of this section?
- Any increases in traffic will cause the peacefulness of the area to drop. This will increase anxiety in visitors to our property, which currently is not the case with only 20-30 vehicles a day using the Nain Rd.
- The only real way to stop traffic using the Nain Rd would be to close the road permanently and allow no access points onto Nain Rd towards Nain or Schwartz Rd.

4.3 Heritage

The MLP Risk Matrix indicates a rating for Heritage as "Negligible" with a likelihood of consequences at Category 1 as "Virtually Impossible/Low". This Submission rates the effect as "Extreme" and Category 5 as "Virtually Certain/High".

Risk matrix			Likelihood of consequences				
			1	2	3	4	5
			Virtually impossible	Rare	Unlikely	Likely	Virtually certain
Severity	E	Negligible effects	Low	Low	Low	Low	Low
	D	Minor effect	Low	Low	Medium	Medium	Medium
	C	Major effects	Medium	Medium	Medium	Medium	High
	B	Severe effects	Medium	Medium	Medium	High	High
	A	Extreme effects	Medium	Medium	High	High	High

- Green represents MLP Risk Matrix rating
- Blue represents this submissions rating

- Part of the attraction to the area for us was the beautiful heritage listed buildings and cemeteries of Nain. We love living next to the church and cemetery and enjoy the quaintness of Nain in general.
- The 400 metre stonewall by the mine site will be destroyed if the mine goes ahead and is the only stonewall of its type in the area.

- The risk to all old buildings in the area is extremely high as many sit on a rock base so all blasting vibration will not be dampened by softer soil types.
- The risk of graves sinking and headstones breaking is also very high.
- Nain is one of the oldest settlements in the Barossa and the Nain Church, manse and cemetery are of significant importance being one of the oldest continuing churches in the southern hemisphere.
- Kara Resources must instigate and pay for dilapidation/building reports on all residences, building, cemeteries, churches etc. that will be affected by blasting vibration, parts of Daveyston and Greenock may also be affected and accept full financial responsibilities for future damage.
- Otherwise the heritage of the area will be diminished and as such our enjoyment. That will be the case for our friends and visitors as well

4.5 Soil

The MLP Risk Matrix indicates a rating for Soil as “Negligible” with a likelihood of consequences at Category 2 as “Rare/Low. This Submission rates the effect as “Major” and Category 4 as “Likely/Medium”.

Risk matrix			Likelihood of consequences				
			1	2	3	4	5
			Virtually impossible	Rare	Unlikely	Likely	Virtually certain
Severity	E	Negligible effects	Low	Low	Low	Low	Low
	D	Minor effect	Low	Low	Medium	Medium	Medium
	C	Major effects	Medium	Medium	Medium	Medium	High
	B	Severe effects	Medium	Medium	Medium	High	High
	A	Extreme effects	Medium	Medium	High	High	High

- Green represents MLP Risk Matrix rating
 - Blue represents this submissions rating
- Highly likely that soils will not be left in bund walls for only short periods as it is unlikely that over 40-90 years of estimated mine life that they will regularly turn over this soil

4.6 Waste Disposal

The MLP Risk Matrix indicates a rating for Waste Disposal as "Negligible" with a likelihood of consequences at Category 2 as "Rare/Low. This Submission rates the effect as "Major" and Category 4 as "Likely/Medium".

Risk matrix			Likelihood of consequences				
			1	2	3	4	5
			Virtually impossible	Rare	Unlikely	Likely	Virtually certain
Severity	E	Negligible effects	Low	Low	Low	Low	Low
	D	Minor effect	Low	Low	Medium	Medium	Medium
	C	Major effects	Medium	Medium	Medium	Medium	High
	B	Severe effects	Medium	Medium	Medium	High	High
	A	Extreme effects	Medium	Medium	High	High	High

- Green represents MLP Risk Matrix rating
- Blue represents this submissions rating

- Currently the area enjoys a generally low level of rubbish. A major increase in traffic, people etc. in and out of the mine site will majorly increase rubbish.
- Unfortunately from what I have experienced from other mine operations is that grease cartridges, general rubbish etc. create on the mine site is often buried on site.
- All of this will change the area from a clean, pretty area that can be enjoyed by all, to an area that has rubbish issues that are a problem normally associated with being near a large town.

4.7 Surface Water

The MLP Risk Matrix indicates a rating for Surface Water (Storm water) as “negligible” with a likelihood of consequences at Category 2 as “Rare/low. This Submission rates the effect as “Extreme” and Category 5 as “Virtually certain/high.”

Risk matrix			Likelihood of consequences				
			1	2	3	4	5
			Virtually impossible	Rare	Unlikely	Likely	Virtually certain
Severity	E	Negligible effects	Low	Low	Low	Low	Low
	D	Minor effect	Low	Low	Medium	Medium	Medium
	C	Major effects	Medium	Medium	Medium	Medium	High
	B	Severe effects	Medium	Medium	Medium	High	High
	A	Extreme effects	Medium	Medium	High	High	High

- Green represents MLP Risk Matrix rating
- Blue represents this submissions rating

- We have major concerns that Kara Resources will not have adequate silt traps or bund walls to stop silt, sediments laden, polluted water leaving the site.
- Large rainfall events of several days up to 116mm a day occur in this region
- This means up to 90 million litres could leave a 25 ha site if not contained
- Kara’s 10000-20000 litre silt traps are so inadequate its not worth counting them at all
- This silty, sediment laden, polluted water will silt up creeks and waterways and pollute the waterways in general.

- The initial mine site will not be in a true depression for many decades as they have indicated so this stormwater issue is an immediate long term issue.
- The effects of this silt, sediment laden, polluted water leaving the site is that it will affect the native fauna and vegetation, change the look of the area.
- Generally it will make a big mess with major long term hard to fix effects on areas bordering the mine site.

4.8 Protection of third party property

The MLP Risk Matrix indicates a rating for Protection of Third Party Property as "Negligible" with a likelihood of consequences at Category 2 as "Rare/Low". This Submission rates the effect as "Major" and Category 4 as "Likely/Medium".

Risk matrix			Likelihood of consequences				
			1	2	3	4	5
			Virtually impossible	Rare	Unlikely	Likely	Virtually certain
Severity	E	Negligible effects	Low	Low	Low	Low	Low
	D	Minor effect	Low	Low	Medium	Medium	Medium
	C	Major effects	Medium	Medium	Medium	Medium	High
	B	Severe effects	Medium	Medium	Medium	High	High
	A	Extreme effects	Medium	Medium	High	High	High

- Green represents MLP Risk Matrix rating
- Blue represents this submissions rating
- The risks of fires starting is great, especially when a 500% plus increase in traffic is probable on local roads.
- A higher percentage of truck drivers and quarry workers smoke in my personal experiences. This increases the risks of fire greatly compared to the risk we currently have. As more cigarettes butts are likely to be tossed out.
- Add to this risk you have the risk of more traffic, more accidents and modern vehicles as reported to council on January 28th by the SES captain are more likely to catch on fire than older vehicles.
- As we are east of the mine any fires along the old Kapunda Rd and Nain Rd and on the mine site will threaten us.

- The increased threat will cause much higher anxiety levels in our entire family, especially my autistic son as he is always monitoring CFS sites on hot days already.
- We chose this home partly over others due to the lower fire risk of the area.
- Being a farmer I have always made sure my homes are relatively safe from fires.
- This mine will greatly effect our fire risk for the worse

4.9 Visual Amenity

The MLP Risk Matrix indicates a rating for Visual Amenity as "Negligible" with a likelihood of consequences at Category 2 as "Rare/Low". This Submission rates the effect as "Extreme" and Category 5 as "Virtually Certain/High".

Risk matrix			Likelihood of consequences				
			1	2	3	4	5
			Virtually impossible	Rare	Unlikely	Likely	Virtually certain
Severity	E	Negligible effects	Low	Low	Low	Low	Low
	D	Minor effect	Low	Low	Medium	Medium	Medium
	C	Major effects	Medium	Medium	Medium	Medium	High
	B	Severe effects	Medium	Medium	Medium	High	High
	A	Extreme effects	Medium	Medium	High	High	High

- Green represents MLP Risk Matrix rating
 - Blue represents this submissions rating
- If this mine goes ahead our current perfect visual amenity will be destroyed
 - There is no hope of this mine ever being hidden from us
 - Most of its operations will be able to be seen by us due to our elevation above the mine site
 - Our view to the west is in line with the direction the benches are to be dug
 - The bund wall, the stockpiles, the machinery, the trucks let alone the great big holes/benches will mostly visible from most of our property

- We purchased this property for its beautiful views, peacefulness and cleanliness.
- We will no longer be able to enjoy our property as intended if this mine proceeds in any shape or form
- Our house is designed to capture our western views from the inside and outside. We barbecue and entertain on the western side/corner of our home.
- We were about to build a large viewing desk for our autistic son as he enjoys the views and is often out that side of the house.
- Our pool that is in limbo as well was going to be built where our pergola finishes, also on the western end of the house.
- All in all our enjoyment of our property will be destroyed totally if this mine proceeds.

4.10 Noise

MLP Risk Matrix indicates a rating for Noise as "Negligible" with a likelihood of consequences at Category 2 as "Rare/Low". This Submission rates the effect as "Extreme" and Category 5 as "Virtually Certain/High".

Risk matrix			Likelihood of consequences				
			1	2	3	4	5
			Virtually impossible	Rare	Unlikely	Likely	Virtually certain
Severity	E	Negligible effects	Low	Low	Low	Low	Low
	D	Minor effect	Low	Low	Medium	Medium	Medium
	C	Major effects	Medium	Medium	Medium	Medium	High
	B	Severe effects	Medium	Medium	Medium	High	High
	A	Extreme effects	Medium	Medium	High	High	High

- Green represents MLP Risk Matrix rating
- Blue represents this submissions rating

- We are only 1200 metres from the proposed mine site plus we are uphill with nothing to stop the noise between us and the mine site
- We moved here because it was generally peaceful and quiet
- We hear the sounds of nature for 99% of most days

- This proposed mine would create loud, horrible noise for the bulk of the day.
- This noise will be far greater than the odd farm machine operating seasonally
- Most local machinery is of lower horsepower due to much of the area being cut for hay
- These mine loaders, dump trucks, crushers and screeners etc. will be handling and crushing hard rock
- The mine will be a loud horrible change to the noise we currently have
- It will distress my family and especially my autistic son as he hears things at different levels to most people and often has run into danger to get away from an unexpected loud noise
- We have regular visitors who are also autistic and many will react the same
- This noise produced by the mine will destroy all enjoyment of our property and is highly likely to cause anxiety and health issues for my autistic son

4.11 Dust

MLP Risk Matrix indicates a rating for Dust as "Negligible" with a likelihood of consequences at Category 2 as "Rare/low". This Submission rates the effect as "Extreme" and Category 5 as "Virtually certain/high".

Risk matrix			Likelihood of consequences				
			1	2	3	4	5
			Virtually impossible	Rare	Unlikely	Likely	Virtually certain
Severity	E	Negligible effects	Low	Low	Low	Low	Low
	D	Minor effect	Low	Low	Medium	Medium	Medium
	C	Major effects	Medium	Medium	Medium	Medium	High
	B	Severe effects	Medium	Medium	Medium	High	High
	A	Extreme effects	Medium	Medium	High	High	High

- Green represents MLP Risk Matrix rating
 - Blue represents this submissions rating
-
- This proposed mine will create massive dust issues for everyone local to the mine
 - As we are only 1200 metres east of the mine in line with the general wind direction these dust issues will affect us severely
 - We chose this property for several different reasons, one of which was because most of the area is cut for hay, this means most paddock work is in spring and doesn't create dust.
 - All in all very low levels of dust are created in the area. See attachment A

- This proposed mine will increase dust in the area at least 10 times. I grew up on the Adelaide plains and have country in the Murray Mallee, as such I am experienced in dust generation and difficulties in controlling it.
- Bare exposed ground is very hard to stop from creating dust
- Crushing up to 2000 tonne of product a day will create a massive amount of dust aswell.
- This dust will coat or home, wash into our rainwater tanks, cover our garden and wreck our grazing area that our horse grazes on.
- As we moved here for a low allergy area on our doctors advice and he is very happy with the results from our autistic son since our move here. The increase in dust would force us to sell and move elsewhere.
- We are also concerned about some of the Polo-citrus dust suppressant products as they are a lung, eye and skin irritant. Sometimes certain products affect autistic people far worse; we are not prepared to take this risk with our autistic son.
- We also have friends who regularly visit with asthma, currently they have never had an issue but the dust level we expect to have from this mine would be at a dangerous level and our friends would not be able to continue visiting.
- Attachment A contains an experienced agricultural consultants opinion of the areas dust level currently.
- The dust from this mine if it proceeds will force us to sell and move from what is meant to be our last home.
- We cannot risk our sons health or our own.
- This mine is of a severe risk to everything we have worked towards for 13 years, that is to help our autistic son be the best he can be.

4.12 Blasting Vibration

The MLP Risk Matrix indicates a rating for Blasting Vibration as “Negligible” with a likelihood of consequences at Category 2 as “Rare/low”. This Submission rates the effect as “Extreme” and Category 5 as “Virtually Certain/High”.

Risk matrix			Likelihood of consequences				
			1	2	3	4	5
			Virtually impossible	Rare	Unlikely	Likely	Virtually certain
Severity	E	Negligible effects	Low	Low	Low	Low	Low
	D	Minor effect	Low	Low	Medium	Medium	Medium
	C	Major effects	Medium	Medium	Medium	Medium	High
	B	Severe effects	Medium	Medium	Medium	High	High
	A	Extreme effects	Medium	Medium	High	High	High

- Green represents MLP Risk Matrix rating
- Blue represents this submissions rating

- We have major concerns from any blasting
- Our autistic son will become concerned around blasting times even if we keep him aware.
- He doesn't know how to express these concerns and often he becomes anxious, grumpy and upset
- We ourselves also worry how we will cope when we are only 1200 metres from the mine site and it is in clear view of our home
- We also have major concerns for the structure of our home as we have spent large amounts of money making this home our dream home

- We also have cats, dogs, birds, pet sheep and a horse plus valuable rams that come here in winter when not with the ewes.
- We are concerned as horses bolt, rams etc. can crash through fences when things happen suddenly and our dog hates thunder and lightning to the point of running away
- We feel a full geological survey and report on all local rock structures needs to occur plus a full building report on all buildings and that Kara Resources pay for all of this and are held responsible for all future damage as our home etc. doesn't have cracking problems and if my livestock are injured or die as a result of a blast that Kara Resources are held fully responsible for all damages and costs.
- Unfortunately we would have to sell and move as there are too many risks to our sons health
- If this mine proceeds the emotional and financial cost will be massive as we planned to never move again.

4.14 Rehabilitation

The MLP Risk Matrix indicates a rating for Native Vegetation as "Negligible" with a likelihood of consequences at Category 2 as "Rare/low". This Submission rates the effect as "Extreme" and Category 5 as "Virtually Certain/High".

Risk matrix			Likelihood of consequences				
			1	2	3	4	5
			Virtually impossible	Rare	Unlikely	Likely	Virtually certain
Severity	E	Negligible effects	Low	Low	Low	Low	Low
	D	Minor effect	Low	Low	Medium	Medium	Medium
	C	Major effects	Medium	Medium	Medium	Medium	High
	B	Severe effects	Medium	Medium	Medium	High	High
	A	Extreme effects	Medium	Medium	High	High	High

- Green represents MLP Risk Matrix rating
- Blue represents this submissions rating

- I personally believe that if this mine goes ahead over the 80 hectares site that it will eventually become much larger crossing roads into other areas
- It will become a large and deep hole that will collect large amounts of storm water runoff from the Nain hills etc.
- It will be impossible to return it as a suitable cropping paddock for hay as it currently is.

5.1 Social

Statement: *"This venture and investment will make a huge social contribution to the district by incorporating other small and large business growth. This long term project will help provide new opportunities for employment and growth in this rural region."*

Response: How can this statement be at all true when the social fabric of the area that has existed for generations will be totally destroyed if this mine proceeds?

Current and future local businesses are at extreme risk, including our own, as this mine is incompatible with current businesses in the area. You can't create 1 new job and destroy 3 and call this growth.

5.2 Economic

Response:

- More business and jobs are at risk then what will be created
- For 13 years we have been improving our autistic sons life
- It is a natural progression to use what we have learnt to help others
- We have many people asking for and wanting some of the things we have done with our son
- For this reason we are going to create a learning, life skill centre based around agricultural activities for our son and others like him
- We have proven with our son that regular one on one; supported agricultural activities are of great benefit to him and would be to others.
- We have business plans on hold that would, firstly create a garden plot area plus animal handling/husbandry area, then create a commercial, not for profit horticultural business as our builder Lee Fenton's submission to you shows. After this products would be sold at local markets involving marketing and sales projects.
- These projects are sorely needed and lacking in country areas.
- These projects are large employers as you need one client to one support worker with a maximum of two clients on to one support worker
- As we are aiming for around 10 supported workers, this equates to 15-20 employees in total.
- This is only a starting figure and when we add on farm training with sheep handling in shearing sheds etc. We feel this number could reach 20-40 employees
- As we have said this is a needed service and one we are passionate about

- We already voluntarily support one 19 year old with some work experience plus our own son.

5.3 Environmental

Response: There are no substantiate benefits for this proposal, the destruction of prime agricultural land for close to a century combined with the dust, noise and waterways pollution makes any carbon footprint gains insignificant.

Summary

- If this mine proceeds we will loose a large amount of money that has already been invested into our move here, it was made because we felt we could create a long-term safe environment for our son and ourselves.
- We would never have moved here if we knew about this mine as we discounted buying near the Penrice area due to the mine there.
- We estimated we could loose over \$950,000 if we have to sell. If the mine proceeds, it may even be closer to \$2,000,000 as the cost to find a similar place with beautiful visual amenity, peace and quiet, no dust, good access are difficult to find
- We feel this property and the benefits for our son are virtually irreplaceable
- Please do not destroy our families homes and dreams by approving this mine

ATTACHMENT A

Andrew Parkinson
Advanced Farm Services Senior Agronomist – Landmark
Mobile: [REDACTED]
Email: [REDACTED]

MLP Version 3

1.5 Noise, dust and air quality

"The region is generally dusty in the summer months due to the surrounding unsealed roads, cropped and grazed paddocks as is common towny region in South Australia. A small to medium isolated quarry pit will not pose significantly increased impacts on the local area."

Response - Andrew Parkinson

(This region I would class as a high rainfall environment and fairly undulating or hilly. As a result the amount of ground cover throughout the year including the summer months is fairly high. The only time there would be bare ground is with occasional cropping in winter / spring and where the majority of the crop residue is left behind following harvest. Even this bare ground would allow for very little or no raised dust due to the heavy soil types and very little machinery movement during summer months as a result of the seasonal nature of farming. Due to the high rainfall and undulations there is also a lot of native vegetation and especially large trees in the area which help to prevent high winds and raised dust. This is in stark contrast to areas such as the Adelaide Plains where there is little vegetation and undulations, a lot of bare ground due to crop types grown and the soils are a lot lighter and therefore much more prone to raised dust. This is evidenced by the fact that when dust storms occur nearly all of the raised dust comes from the Adelaide Plains and Eyre Peninsula regions, this can clearly be seen where recent fires have removed all surface vegetation exposing bare soil in the Mallala/Balaklava region. Any quarrying in this region would add a very significant amount of potential raised dust similar to what occurs on the Adelaide Plains.)

4.11 Dust

"Context: Dust leaving the site can be an issue for close proximity receptors;

fortunately there are none. Dust Generation from quarrying processes are localised. Activity that produces a high degree of dust will not occur on high wind days. This operation will not pose any increased risk to air quality. The site is situated inside a large exposed paddock. The dust created from quarrying is negligible compared to regional dust generated by farmland and public use of roads."

Response - Andrew Parkinson

(Any quarrying would generate an extensive amount of raised dust. Initial clearing of top soil, formation of roads and storage sites all require a lot of heavy machinery movements which break down soil texture and create many fine particles that are prone to movement by wind. Once quarrying begins and deadlines have to be met I can't see operations being suspended and who makes these decisions. The fact that the site exists within a large exposed paddock only suggests that it is more open to the elements and therefore more exposed to potential wind erosion!)

