CON520: SUBMISSION ON RESOURCE CONSENT APPLICATION
(SECTION 96 RESOURCE MANAGEMENT ACT 1991)

TO: Consents Hearings
Environment Canterbury
P O Box 345
CHRISTCHURCH 8140

Email: hearings@ecan.govt.nz
Ph: (03) 353 9007  Fax: (03) 365 3194

OR: submit by completing an on-line form at:

______________________________
Person(s) /Group /Organisation Making the Submission

Full Name of Submitter(s):
Juin & Noleen Lapsley

Postal Address:

Contact Phone:

Fax/Email:

☐ Please tick this box if you do not want to receive any communication via email

Contact Person:
Juin Lapsley

Name of applicant: Fulton Hogan Limited

Applications to Environment Canterbury

☐ All of the applications as listed below OR only those as ticked.

☐ CRC192408  Land use to excavate material
☐ CRC192409  Land use to deposit cleanfill
☐ CRC192410  Discharge contaminants into air
☐ CRC192411  Discharge contaminants into water from industrial processes
☐ CRC192412  Discharge stormwater into land
☐ CRC192413  Discharge contaminants into land associated with deposition of cleanfill
☐ CRC192414  Water permit

☐ I / We support the application  ☑ I / We oppose the application ☐ I / We are neutral to the application
(neither support or oppose)

☐ I / We do wish to be heard in support of my/our submission*
(Note: this means you wish to speak in support of your submission at the hearing)

*If others make a similar submission, I will consider presenting a joint case with them at the hearing ☑ Yes ☐ No

OR

☐ I / We do not wish to be heard in support of my/our submission
(Note: this means that you cannot speak at the hearing, however you will retain your right to appeal any decision to the
Environment Court on any decision made by the Council.)
Application to Selwyn District Council

RC185627  Land use for gravel extraction and processes

☐ I / We support the application  ☑ I / We oppose the application  ☐ I / We are neutral to the application  (neither support or oppose)

☑ I / We do wish to be heard in support of my/our submission*  
(Note: this means you wish to speak in support of your submission at the hearing)  
*If others make a similar submission, I will consider presenting a joint case with them at the hearing  ☑ Yes  ☐ No

OR

☐ I / We do not wish to be heard in support of my/our submission  
(Note: this means that you cannot speak at the hearing, however you will retain your right to appeal any decision to the Environment Court on any decision made by the Council.)

2. The reasons for making my submission are: (state in summary the nature of your submission, giving reasons)

See Attached.

3. I wish the consent authority to make the following decision: (give details, including the general nature of any conditions sought)

Decline the proposed Fulton Hogan Quarry

See Attached.
5. [ ] I am not a trade competitor for the purposes of section 308B of the Resource Management Act 1991.
[ ] I am not directly affected by an effect of the subject matter of the submission that (a) adversely affects the environment; and (b) does not relate to trade competition or the effects of trade competition.

[Signature]

Date 4/6/19

Notes to the submitter:
1. The person making this submission must send a copy to the applicant as soon as reasonably practicable after serving Environment Canterbury.
2. A list of all submissions received will be provided to the applicant.
3. Please be aware that third parties may request a copy of submissions received and that request is subject to the Local Government Official Information and Meetings Act 1987.

The address for service of the applicant is:
Fulton Hogan Limited
c/o Golder Associates
PO Box 2281
Christchurch 8041
Attn: Kevin Bligh / Geoff England

Email: submissions@golder.co.nz
I wish to object to all the Resource Consent Applications from Fulton Hogan for the proposed quarry on Jones Road near Templeton.

**I make this submission as a directly affected person living only 380 metres from the proposed site.**

I object to this application on the following grounds.

- ZERO CONSULTATION
- DUST
- WATER
- TRANSPORT
- NOISE
- HEALTH & WELLBEING
- AMENITY
- FUTURE DEVELOPMENT
- CUMULATIVE EFFECTS
- ENVIRONMENTAL EFFECTS

**DUST**
Crushing Canterbury plains old river gravels that contain silica causes a carsenogenic dust. This carcinogenic dust is the cause of silicosis. There are many many worldwide studies by highly qualified expert persons that have all reached the same conclusion. That is, silica dust causes silicosis (lung disease).

Fulton Hogan have submittted that they will “reduce” this dust with the use of spray guns in the quarry. These guns are inadequate and will not “prevent” dust from crossing the boundary of the quarry.

Our property is only 380 metres from the boundary of the proposed quarry. We are directly downwind from the site in the very strong and dry “Norwerster” winds that prevail in Canterbury. It is well known that crushed gravel silica dust is particularly fine, practically invisible, and can be carried by strong winds for a very long distance. Perhaps 5 km or more.

This means that our property will be covered in this very fine carcinogenic dust. Our house, sheds, cars, windows, washing line, pastures and vegetable patch would all be covered in this carcinogenic dust. It would permeate our whole property and environment.

Our pasture cannot be washed like vegetables. Our pasture is cut and baled into meadow hay which is mostly used in the horse industry. The buyers of our hay are particularly fussy and would not risk their animals be exposed to carcinogenic silica dust which I would be unable to remove. This would have an adverse effect on our income.

While there are multiple worldwide studies conclusively linking carcinogenic silica dust with silicosis lung cancer. There are no studies on “my” family, and “our”
intolerance to this poisonous dust. Our daughter has health issues with Asthma and Eczema and our granddaughter suffers from sensitive skin and eczema. I am not prepared to allow the quarry to go ahead and risk my family's health from this carcenogenic dust.

Fulton Hogan propose to spray the aggregate with water before the trucks leave the proposed site. However that water dries out within a few kilometres and they then spread dust for the rest of their journey. Sometimes many many kilometres. Trucks exiting the proposed quarry would have to be covered. 100% of them.

There is no control on where individual contractors (trucks) would route their journey and unless covered, dust would be coming from Trucks in very sensitive areas.

ZERO CONSULTATION
To date, even though Ecan has identified us as a directly effected person(s) to the proposed quarry, Fulton Hagon have never consulted with me about my concerns of their proposed quarry.
It is my understanding the Selwyn District Council requires “directly effected persons” to be directly consulted.

WATER
The water table at our property is only 10 to 20 metres underground.
We have an Ecan authorised bore that provides water to our houses and stock water troughs.
We are directly downstream from the proposed quarry site.
The underground water for the water table and aquifers enters in the mountains and high plains and makes it's way underground towards the sea in the underground gravels and aqifers. Our well is directly downhill so therefore downstream from the proposed quarry site.
Fulton Hogan proposes to use millions of litres of water to wash trucks, spray roads, micro spray the site, wash gravels, etc.
Fulton Hogan propose to dig down to 1 to 2 metres above the water table.
This millions of litres of wash then goes into the water table and as carcenogenic silica dust is so fine, it is carried into the water table directly downstream to our well site.
We drink this water as does our stock.
Fulton Hogan have some wash ponds proposed for the proposed quarry but it does not catch all the water that will wash the fine carcenogenic silica dust into “our” community water table. Ours is not the only well in the directly effected downstream area. The 'Claremont' subdivision also has a very large well serving their subdivision. The millions of litres of water Fulton Hogan propose to take could potentially lower the water table in our area. Not all the water used at the proposed quarry is re-used. Some of the water is carried away on trucks leaving the quarry. The water used to wash and dampen down trucks and aggregate leaks and drips this dust laden water onto the road for kilometres. This water contains carcenogenic silica dust. The water on the road then evaporates leaving silica dust on the roads for many kilometres. This dust is then blown onto neighbouring properties such as ours, exposing us to the carcenogenic dust.
TRANSPORT
Going by the application by Fulton Hogan for the proposed quarry, they list 1500 truck movements per day. It is well known that most aggregate trucks also have trailers. A truck is calculated at 6 domestic cars by Transit NZ and a truck and trailer is 12 cars equivalents.

The proposed quarry is planned to be open from 6am till 6pm.
So I calculate:
1500 trucks x 12 = 18,000 car equivalents.
Divide by 12 hours = 1500 car equivalents per hour.
Divide by 60 minutes = 25 car equivalents per minute!
Divide by 60 seconds = .42 car equivalents per second!

OR “1.3 CAR EQUIVALENTS EVERY 3 SECONDS”

It is normal for mining operations to have to repatriate the land back to it's original environment. This is seen in gold mines and quarries in New Zealand. I'm sure this will be a requirement by Ecan.
So for every truck load out of the proposed quarry, add one truck load of fill back into the site to repatriate the land.
So the Fulton Hogans estimation of 1500 truck movements should be “DOUBLED”. The land should be repatriated within a certain (e.g. 5 years) of the land being changed.
So if the truck movements are doubled, that means 2,6 car equivalent movements every second! This is of course if the movements are evenly spaced throughout the day.
Of course some hours will be busier that others especially peak traffic hours.
Add the proposed quarry traffic to the busy Jones Road traffic and it surely must result in chaos.
These are Fulton Hogans figures in their proposal. Not mine.
The new motorway system in the district was done before the proposed quarry application so no allowance was made for this massive extra traffic flow. There is no access to the motorway from Waterholes or Curroghs Roads so the quarry traffic would have to use small rural roads not suitable for large numbers of truck and trailers full of aggregate. Some of these rigs weigh over 50 tonnes.

NOISE
I see in the Fulton Hogan proposal that multiple crushing plants are proposed, some fixed and some temporary. Each crusher emits 115 to 121 decibels of noise.
115 to 121 decibels is about the same as a rock concert.
I live only 500 metres (380 from the boundary) from these proposed crushers.
So I would be expected to live next to the equivalent of 2 or 3 rock concerts, going up to 24 hours a day!

Fulton Hogan have applied to operate 24 hours a day for 150 days and 6am to 10pm for another 150 days per year.
After a normal working day in this location it quietens down in the evenings and overnight making this area a very peaceful place after the 5pm traffic dies down until 7.30am when the people are heading back to work in Christchurch.
Multiple crushers (both mobile and fixed) will destroy that peacefulness, because the application is for 24 hour operation for 150 days and till 10pm for a further 150 days.
Only 65 days when the noise finishes at 6pm. Add to the crusher noise the extra noise of 1500 truck movements. Trucks are noisy when fully loaded but are noisier when empty. A truck going over a bump in the roads makes an almighty bang that is magnified by the empty bin.

The cumulative effect of noise from crushers, loaders, elevators, conveyors, trucks and other vehicles is massive and very intrusive on our lives. We like to sleep with our bedroom window open for fresh air. The noise (and dust) would come right into our home. This is another intrusion with a cumulative effect on our lives. Putting the crushers, loaders, elevators, etc., etc., into a hole would lessen the noise a little but it would still be intrusive on our peaceful rural environment. We can clearly hear the Ruapuna Raceway at our property and the cars there have a 95 decibel limit. Ruapuna is about 8kms away from our property. Multiple Crushers emitting 115 to 121 decibels that are only approx. 500 metres from our home is far more than a minor effect on our lives. Sometimes I have great difficulty getting to sleep so Fulton Hogans proposed quarry would be extremely detrimental to my well being and that of my family.

HEALTH AND WELLBEING
I moved to this quiet rural location for my personal wellbeing and that of my family. I like the quiet evenings and open spaces. I am aware that with development over time Rolleston and Christchurch will be one urban site but not for many years. Templeton will grow westward still in the Christchurch City Zone. And Rolleston is growing eastwards at an incredible pace. Our peaceful rural location will last for many years until Christchurch and Rolleston join up. A quarry would use up valuable urban land for this expansion. However the cumulative effects of Fulton Hogans proposed quarry will have a major effect on my health and wellbeing. The unwanted added stress of noise issues, dust issues, water issues, traffic issues and enviroment concerns will have a detrimental effect on my health and that of my family as well.

SITE SAFE NEW ZEALAND has these statements on their website. “Exposure to silica dust can cause silicosis and lung cancer”

Dust silt needs to be collected then disposed of”

The silica dust that is washed into the underground water cannot be collected. It is washed into the water table directly upstream of my well so directly affects myself and my property.

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OK INTERNATIONAL (Occupational Knowledge International) makes these statements.

“Silica is a naturally occurring mineral. When inhaled silica dust can cause silicosis and cancer.....”

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In India studies have shown increased morbidity and mortality among silica exposed
workers (and of course their neighbours exposed to this risk).
"Over 1 million mining industry workers in China and 500,000 in South Africa have been diagnosed with silicosis".

In 1995, International Labour Organisation and World Health Organisation launched a programme to Globally eliminate silicosis in all countries by 2030. They want to raise awareness and reduce exposures.

"Dust from stone crusher industries in India is known to affect local communities". Water spray systems only “reduce” exposure but do not “eliminate” exposure.

"EAT MY DUST” seems to be Fulton Hogan's mantra to the neighbours and directly effected persons of this Proposed quarry.

Weihong Chen's Study in China on the “Long Term Exposure to Silica Dust....”, studied 74,040 quarry workers.
As we have been identified as a directly effected person/property, we also fit into this study's criteria.

CONCLUSION-
Long term silica dust exposure was associated with substantially increased mortality among Chinese workers. The increased risk was observed not only for deaths due to respiratory diseases and lung cancer, but also for deaths due to cardiovascular disease.

We live directly in the path of the North Westerly airbourne silica dust from the proposed quarry, so we fit exactly into this study as we live and work in the same enviroment.

FUTURE DEVELOPMENT
The proposed quarry site sits right in the middle of the obvious urban development area for Christchurch and Rolleston.
The population of Christchurch is rapidly moving west towards Rolleston. Rolleston is rapidly moving east towards Christchurch.
The proposed Quarry site is directly on the Christchurch City boundary of Dawsons Road and the Rolleston expansion of the Isite on the north side of SH1, and the urban expansion on the South side. This expansion is already at Weedons and Weedons Ross Road and will continue until the two cities join.

CUMMULATIVE EFFECTS
The Cummulative effect of the dust, noise, water issues, traffic, enviroment and health and wellbeing on myself, my life, my family, my visitors and my income cannot be underestimated and are more than minor.

This proposal will have a major major effect on myself and my families lives. Ecan have written to us saying we are a directly effected person/property. They have identified myself as a directly effected party and as such “I DO NOT” give my permission for this quarry to go ahead.
CONDITIONS

I DO NOT WANT THE PROPOSED QUARRY TO GO AHEAD!

However, should the Commissioners grant consent for the proposed quarry I want the following conditions imposed on the Fulton Hogan quarry.

1. Fulton Hogan must buy our 4 ha property. Price is $5 million plus GST if any, as the stress of above is too great for us to stay. We were here first!
2. All trucks leaving the quarry must be wetted down and covered.
3. All persons entering the quarry must wear breathing apparatus at all times to protect their health.
4. If “any” dust exits the Fulton Hogan quarry property, the quarry must be shut down permanently and number 1 applies.
5. Permanent suitable monitoring equipment must be installed for water and dust on the proposed quarry site in suitable locations. Plus monitoring equipment must be installed on our boundary for water, dust and noise. This equipment must be permanently monitored by independent persons. This must be paid for by Fulton Hogan.
6. All road dust that exits the quarry must be wet vacuumed off the roads by independent contractors.
7. The quarry can only operate between the hours of 7.30am and 5.30pm Monday to Friday. Plus 8am to Noon on Saturday mornings and not on Public Holidays or Sundays.
8. If silica dust enters the water table the quarry must be shut down permanently. If so, number 1 applies.
9. Noise from quarry operations must not be heard from our property. If so, number 1 applies.
10. Fulton Hogan must buy out or offer to buy out all properties that lie inside recognised international set back boundaries for quarries. In India that set back is many kilometres depending on prevailing wind.
11. The quarry site must be repatriated back to it's current arable farming state at normal ground leve within 5 years as they move across the 170 ha site.
12. Only 4ha of the quarry may be open at any given time.
13. Transit NZ must reevaluate access points to the Christchurch Southern Motorway to cope with the massive increase of traffic.
14. We do not want any more water rights to be granted to the proposed quarry site. Water is already under too much treat from water takes in the area.