

6th June 2019

Steve Borland

DEER FARMERS – PLAN CHANGE 1



My name is Steve Borland.

I am a trained engineer and now full-time farmer since 1991.

For the past 15 year I have been the chairman of the Waikato Deer Farmers Association.

I am a member of the dry stock forum with the Waikato Regional Council.

Appointee to selection and appointment panel for appointments for directors of Deer Industry New Zealand.

Shabor Limited

- Shabor Limited – a joint family operation with a farm at Oparau (outside catchment) and Whakamaru (Priority 1 catchment).
- Shabor Limited was set up 5 years ago to encourage the next generation of our two families to have the opportunity to farm.
- We have completed beef and lamb environmental plan one and two.

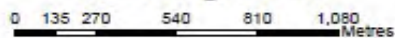
Farm Map – Oparau



My Ravensdown Smart Maps

www.myravensdown.co.nz
 Note: Areas are in hectares
 Copyright Ravensdown Ltd

Moerangi Road



Farm Succession - Video

- [Farm Succession Video](#)

Developing a Deer Farm

- ① The farm at Oparau was purchased in 2014.
- ① When development started we involved the Land Care Trust, who have been a knowledge provider to the deer industry since our first Land Care manual in 2002.
- ① Developing a Deer block with best practices

Developing a Deer Farm

- At Oparau the main issues are sediment and E.coli.
- These are being managed through sediment ponds and wetlands. All the main streams are nearly all double fenced with 30 meter set backs
- These have attracted some funding from Waikato Regional Council due to be completed by the end of 2019.

Developing a Deer Farm

- We are part of the Agrisearch high country water quality testing which we test the main stream from the property monthly.
- Every six months scientists from Agrisearch do in-depth water testing on all water entering and exiting the stream.
- Shabor Limited has triggered once for E.coli this year only after a very dry summer and rain event just before sampling.

Sediment Traps and Wetland's



Sediment Traps and Wetland's



Sediment Traps and Wetland's



This stream is 2.5km long and is in the process of being double fenced from the exit of the property to the native bush.

Sediment Traps and Wetland's



This is one of the main exit streams from the bush along side the Moerangi road. It has completely stock proof for 1km from the road to the farm. Completion back to the native bush 2.5km is due to be complete by the end of July. Notice the clarity of the water and for the first time we have stock exclusion. We now have water cress.

Sediment Traps and Wetland's



Sediment Traps and Wetland's



Pre- riparian

Deer Wallowing



This picture was taken one day before the rain came during the dry summer. Usually full of water.

Deer Wallowing



The main stream is about 1km down through this valley.

Deer Wallowing



Pooling pond and exit at the bottom of the valley

Where would you fence?



1. Stream is located at the bottom, fence line to protect stream to be completed. Deer grazing on the top.
2. Spring source – winter only. Summer dry. This paddock is 55 ha. and has 9 of this type of gullies. The stream will be fully protected for about 1km back to the sediment pond. No deer will be able to enter this stream for 1.5km from the sediment pond to the exit of the farm.

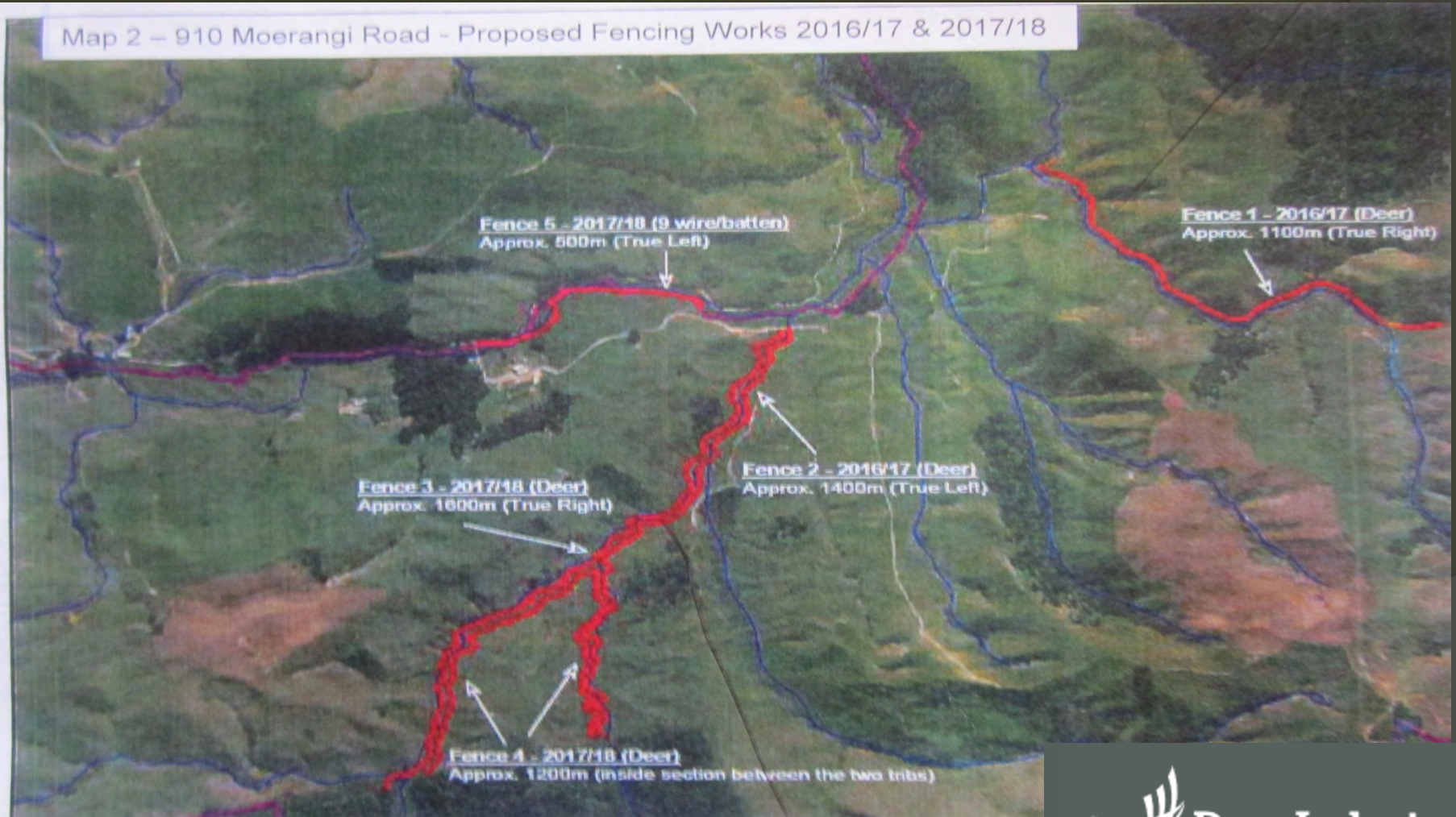
Where would you fence?



View of fence completed on one side of the stream, looking back towards the sediment pond.

Riparian Fencing Plan

Map 2 – 910 Moerangi Road - Proposed Fencing Works 2016/17 & 2017/18



Weaning at Oparau



Weaning at Oparau takes place about the 7th of March in this area shown above. This fence line is fully metallised and is at the highest point of the farm away from water ways. The process takes about 5 days. Stag fawns are transported to Whakamaru on the same day. Hind fawns with nannies are released to this area. Their mothers are approximately 2km away in another paddock.

Weaning at Oparau



Weaner hinds

Fertiliser Applications



Fertiliser Applications

- Fertiliser application use is identified using a Fenix Hyperspectral Imaging Camera.
- Using a fixed wing aircraft, the Fenix records the reflectance across 620 wave bands including visible, near, short wave and infrared.
- This data can be translated onto maps of nutrient content and concentration.
- It can also be used to identify different pasture species – bush blocks, water ways and roads.
- Information is downloaded to fertiliser plane. Variable rates can be applied avoiding sensitive areas.

Fertiliser Applications



Shabor Ltd. Farm Statistics

Oparau – 982 Ha. (800 effective)

- 530 hinds mated
- 4000 sheep
- 85 cattle (all classes)
- Production 250 weaner stags to Whakamaru
- 200 works venison's
- 4500 works lamb's
- 20 hereford 1-year breeding bulls – Dairy market
- Stocking rate – 7-8 SU per Ha.

Shabor Ltd. Farm Statistics

Whakamaru – 195 Ha. (190 effective)

- 1300 velvet stags
- 6 tons plus of deer velvet for Asian market.
- 200 venison for export
- Stocking rate – 19 SU per Ha.

Deer Industry Facts.

- By 2020 all deer farmers will have completed an environmental plan.
- Advance party groups are changing from environmental and production to environmental groups.

Deer Enviro Award 2017



We have won the 'The Elworthy Environmental Award 2017' and the NZ Landcare Trust Award for Excellence in Deer Farming'.

Don't get it wrong



Farmers know their land and are the best stewards for their environment. Regulation is only a guideline, and is there for non-compliant.

This has happened



Any Questions?

- Thank you for the opportunity.