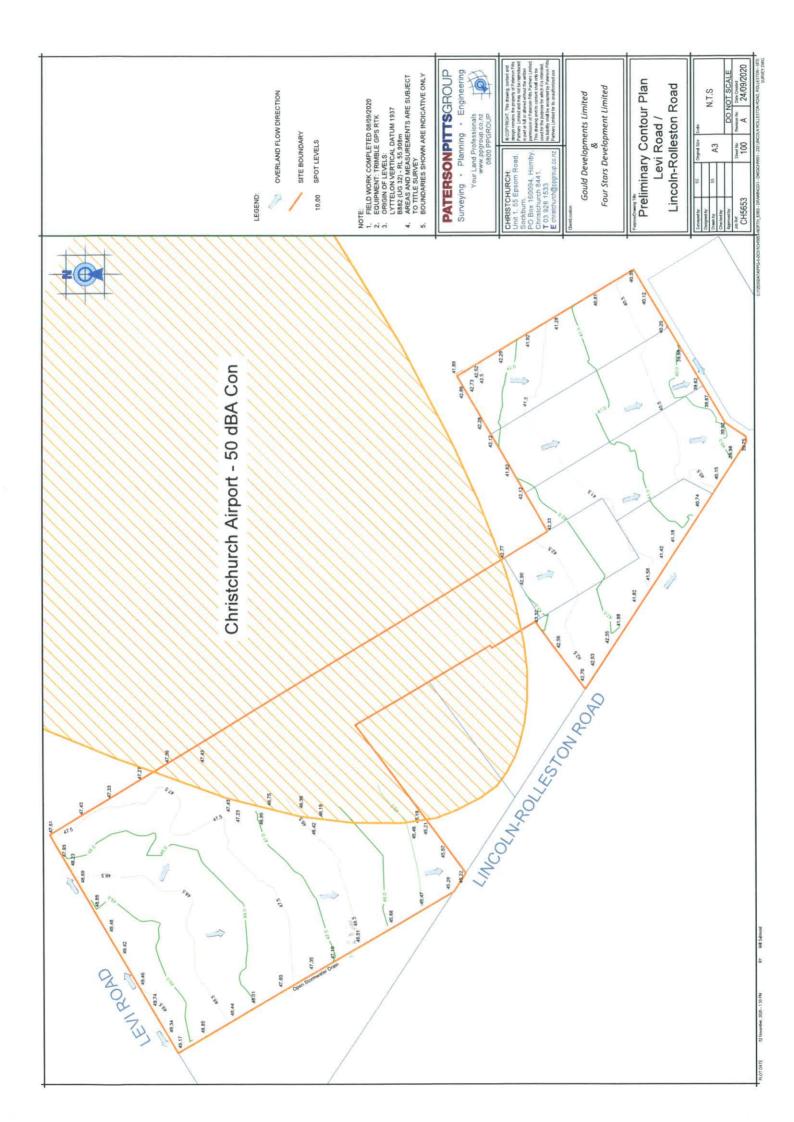
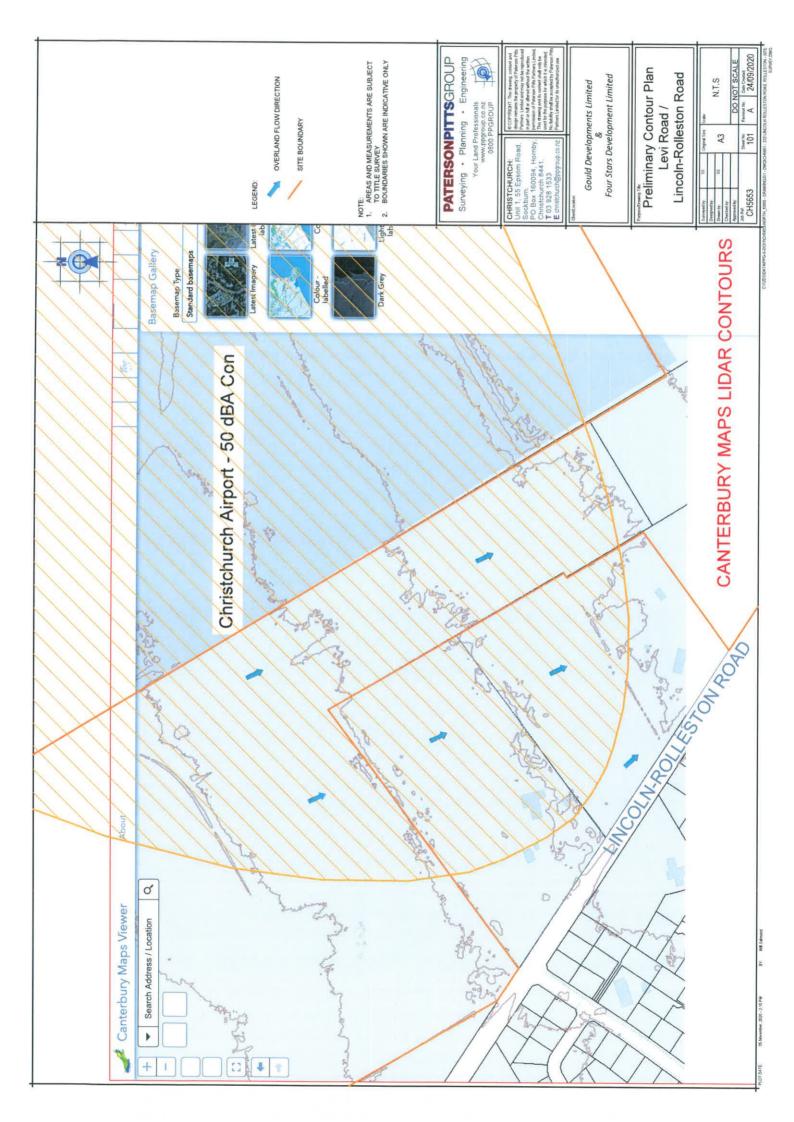
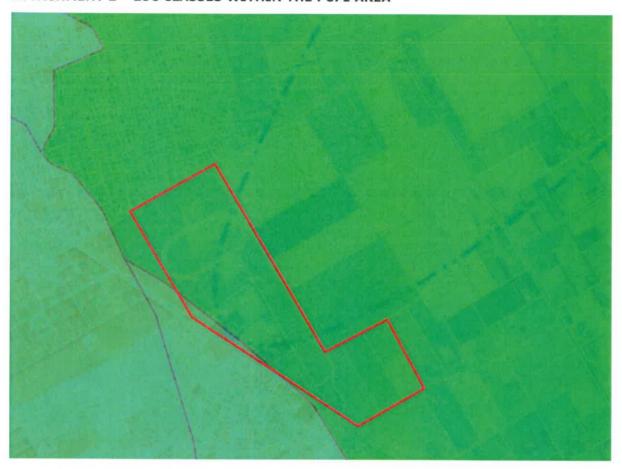
ATTACHMENT 1 - PC71 TOPO MAP (Source Patterson Pitts Group)





ATTACHMENT 2 - LUC CLASSES WITHIN THE PC71 AREA



ATTACHMENT 3 - IRRICALC ANNUAL VOLUME ESTIMATES



ATTACHMENT 4 - CONFIRMATION OF WATER AVAILABILITY

Will Salmond

E	r	_	21	n	

Warwick Pascoe <hydrotradernz@gmail.com>

Sent:

Tuesday, 18 January 2022 10:56 pm

To:

Will Salmond

Subject:

Re: [#PPGCCH5653] PC71 - Rolleston

Hi Will,

The short answer is that the groundwater allocation zone is Selwyn - Waimakariri and that there is a "very good chance" that 110,000m3/yr would be attainable within the next year or so.

In fact, we have two permits available right now that would be ideal:

SW141 (58,651m3/yr, expires July 2028)

SW155 (52,390m3/yr, expires Feb 2033)

Combined volume = 111,041m3/yr.

If you require the above in a formal HydroTrader letterhead, along with additional explanation, this will cost \$454.25 (incl GST).

Would you also be wanting an estimate of cost to purchase (in \$m3/yr) included in the letter?

Regards

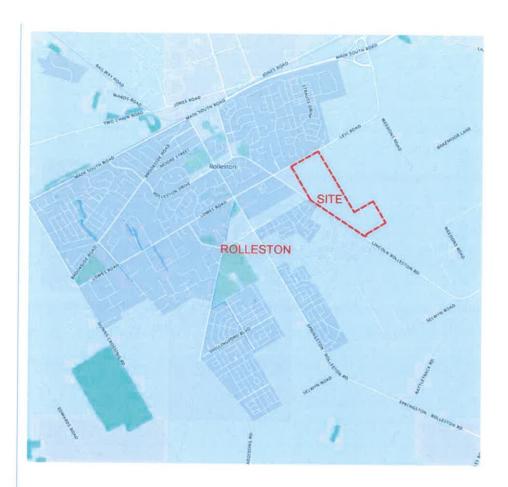
Warwick

On Mon, Jan 17, 2022 at 4:07 PM Will Salmond < will.salmond@ppgroup.co.nz > wrote:

Hi Warrick

Thank you for your time on the phone in December and again today regarding buying water rights/permit.

As outlined in December our clients have made a Private Plan Change Request (PC71) bound by Levi Road, Lincoln Rolleston Road and Nobeline Drive in Rolleston as outlined below.



Part of PC71 is outside the Future Development Area (FDA) of Rolleston set by the Urban Development Strategy for Greater Christchurch. Unfortunately, such areas typically do not have to be supplied water by Selwyn District Council (SDC). In PC71's instance this equates to approximately 38.4ha. If we assume 12hh/ha this equates to 460 households. SDC typically supply per household 545l/day of potable water, this equates to 91,505m³ of water per annum. However, SDC for PC71 has indicated that 600l/day per household will be tentatively required for planning purposes. This equates to 100,740m³ per annum. Accordingly, a conservative volume for PC71 we should allow for a 110,000m³ of potable water per annum. SDC have confirmed that if such a permit were obtained that the water would be extracted from their HELPET facility.

Can you please provide a letter outlining the applicable zone and how attainable such rights/permits would be with an indicative value?

Any questions please don't hesitate in asking.

Thanks

Will

Will Salmond

Principal

Licensed Cadastral Surveyor

M 021 226 3422

P (03) 928 1533

E will.salmond@ppgroup.co.nz

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ATTACHMENT 5 - CORRESPONDENCE WITH SDC

Will Salmond

From:

Murray England < Murray. England@selwyn.govt.nz >

Sent:

Wednesday, 19 January 2022 1:26 pm

To:

Will Salmond

Subject:

RE: [#PPGCCH5653-North] [#PPGCCH5653] PC71 - Water Supply

Thanks Will.

You could potential include both options in your evidence.

Our preference at this point would be to transfer the actual Consent.

Murray

From: Will Salmond [mailto:will.salmond@ppgroup.co.nz]

Sent: Wednesday, 19 January 2022 10:00 AM

To: Murray England < Murray. England@selwyn.govt.nz>

Subject: RE: [#PPGCCH5653-North] [#PPGCCH5653] PC71 - Water Supply

Importance: High

Hi Murray

Based on your evidence of the water maximum demand per day for the past 3 years, SDC has a surplus capacity of 3,883,440m³ per annum for Rolleston.

Liaising with Hydrotrader they have confirmed water permits in this zone are readily available to purchase which would then have to transferred to SDC for potable water supply. However, as Rolleston has a significant surplus, would SDC be open to the idea of PC71 paying Council the equivalent amount to purchase water permits and cost to transfer to service PC71, then in due course SDC when the nearing capacity balance point could either undertake a purchase plus transfer or apply for additional rights from Ecan?

Thanks

Will

Will Salmond

Principal

Licensed Cadastral Surveyor

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E will.salmond@ppgroup.co.nz

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From: Murray England < Murray. England@selwyn.govt.nz>

Sent: Friday, 14 January 2022 10:23 am

To: Will Salmond < will.salmond@ppgroup.co.nz>

Cc: Zani van der Westhuizen < Zani.vander Westhuizen @selwyn.govt.nz >; Liz White < liz@lwp.co.nz >

Subject: RE: [#PPGCCH5653] PC71 - Water Supply

Good morning, Will

Great break thanks, hope you had an enjoyable break also.

I have started looking at per household water use - see below.

SDC Development Contribution Policy is based on 545 litres/day

Long-Term-Plan-2021-2031 Document WEB.pdf (selwyn.govt.nz) Page 250

2021/21 Annual Report states 425 litres/day per person or 1145 litres/day (but this is calculated by all flow (including parks etc.) / number of households.

SDC-Annual-Report-2021-Doc WEB.PDF (selwyn.govt.nz)

As council implements demand management strategies, and the average lot sizes reduce, the actual daily use per household should reduce also.

I would be aiming for around 600 litres/day/property in your planning at this stage.

Murray

From: Will Salmond [mailto:will.salmond@ppgroup.co.nz]

Sent: Thursday, 13 January 2022 1:49 PM

To: Murray England < Murray. England@selwyn.govt.nz>

Cc: Zani van der Westhuizen <Zani.vanderWesthuizen@selwyn.govt.nz>

Subject: RE: [#PPGCCH5653] PC71 - Water Supply

Hi Murray

HNY to you hope you got a well-earned holiday.

As discussed prior to Christmas are you able to come back to me on my email below?

Thanks

Will

Will Salmond

Principal

Licensed Cadastral Surveyor

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From: Will Salmond

Sent: Tuesday, 21 December 2021 2:30 pm To: murray.england@selwyn.govt.nz

Cc: Zani van der Westhuizen <zani.vanderwesthuizen@selwyn.govt.nz>

Subject: [#PPGCCH5653] PC71 - Water Supply

Importance: High

Hi Murray

Following on from your conversation with Fiona yesterday re water supply for PC71 I have a few questions that we need answers to be able to move forward.

1/- what is the daily consumption per household that SDC recognise for Rolleston? Refer above

- Going by your evidence fro PC73 it appears to be 545L per household?
 - Greater Christchurch states 450L per person per day in Urban Selwyn so at 2.7 people per household this equates to 315L per day
 - https://www.greaterchristchurch.org.nz/our-work/indicators/environment/water-use

2/- If we can buy a water permit, do we just buy the m³ required with 10% margin as will transfer to SDC or do we need to buy double due to Red Zone as will lose half?

 Are there any further Ecan requirements that you know of? Previous consents have been transferred without reduction of volume. You will need to check with Environment Canterbury though.

3/- Based on buying allocations would these just be applied to Helpet or future Levi/Weedons Road well? Yes, likely the Helpet site.

It would be greatly appreciated if you could reply as soon as possible as we have a very limited timeframe to resolve.

Regards

Will

Will Salmond
Principal
Licensed Cadastral Surveyor

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E will.salmond@ppgroup.co.nz

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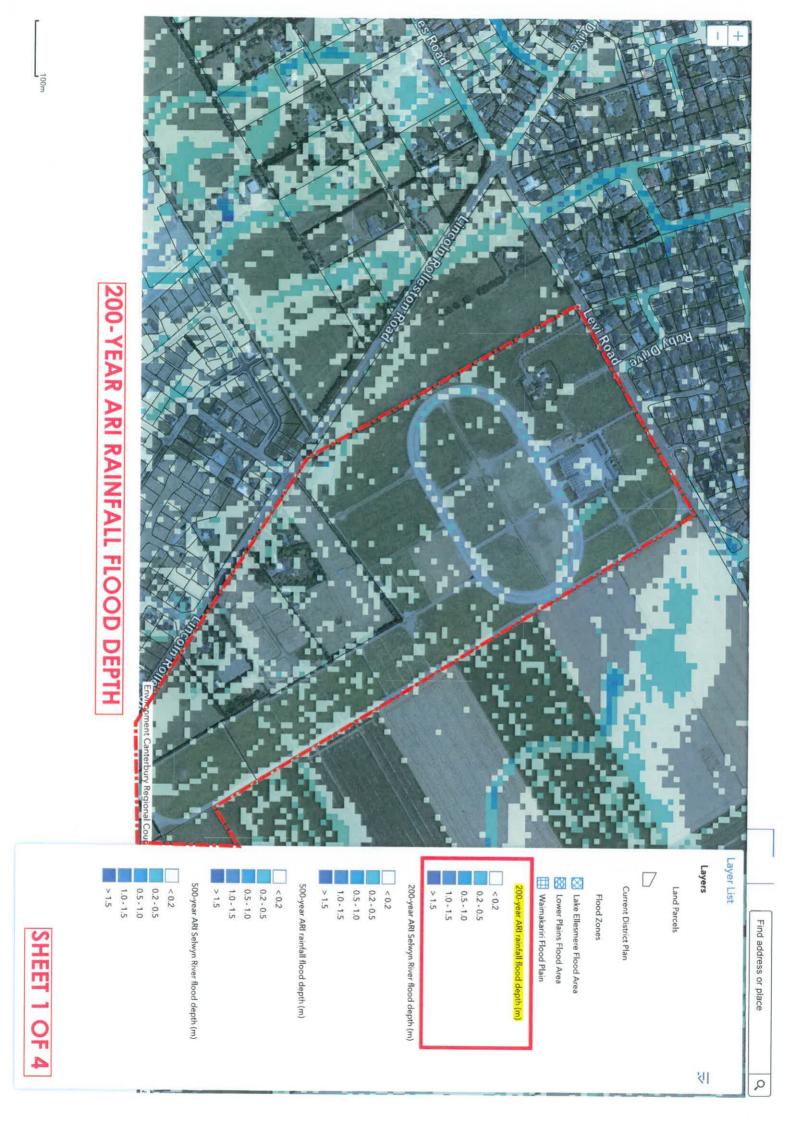


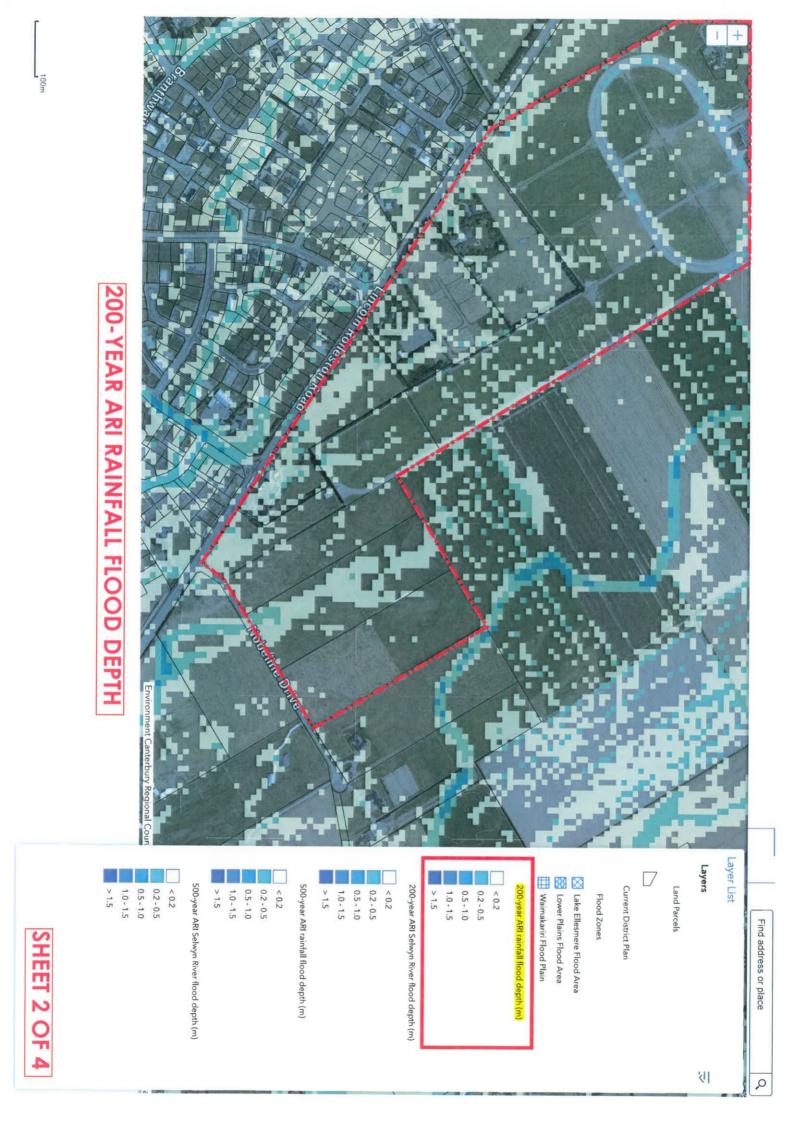
2 Norman Kirk Drive, Rolleston 7614 PO Box 90, Rolleston 7643 Phone: 0800 SELWYN (735 996)

Fax: (03) 347-2799

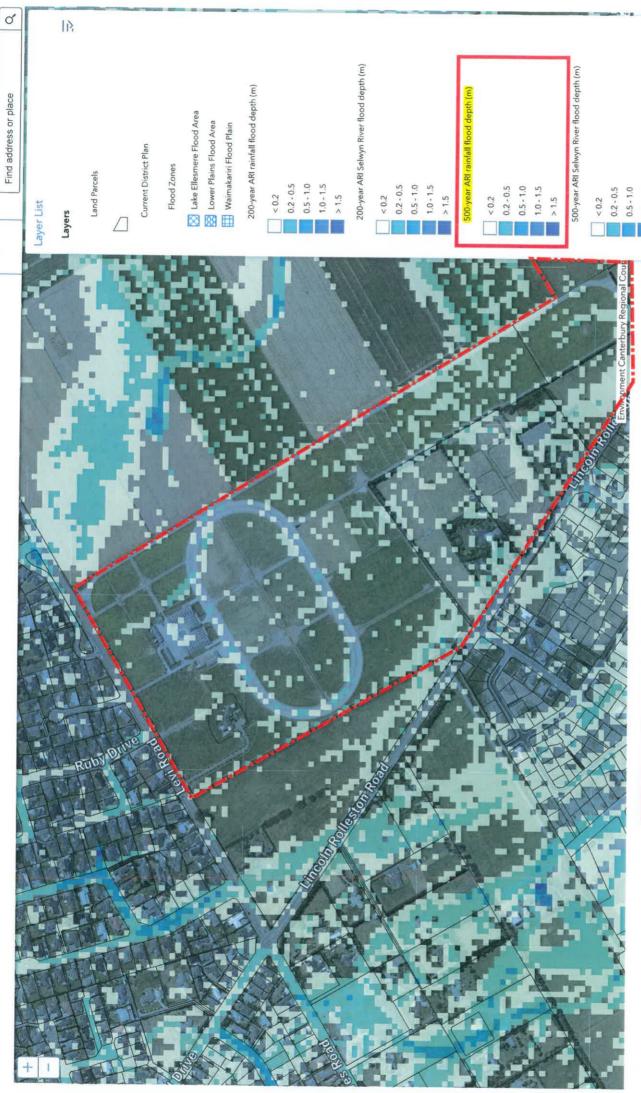
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ATTACHMENT 6 - 200 YEAR FLOOD MAP

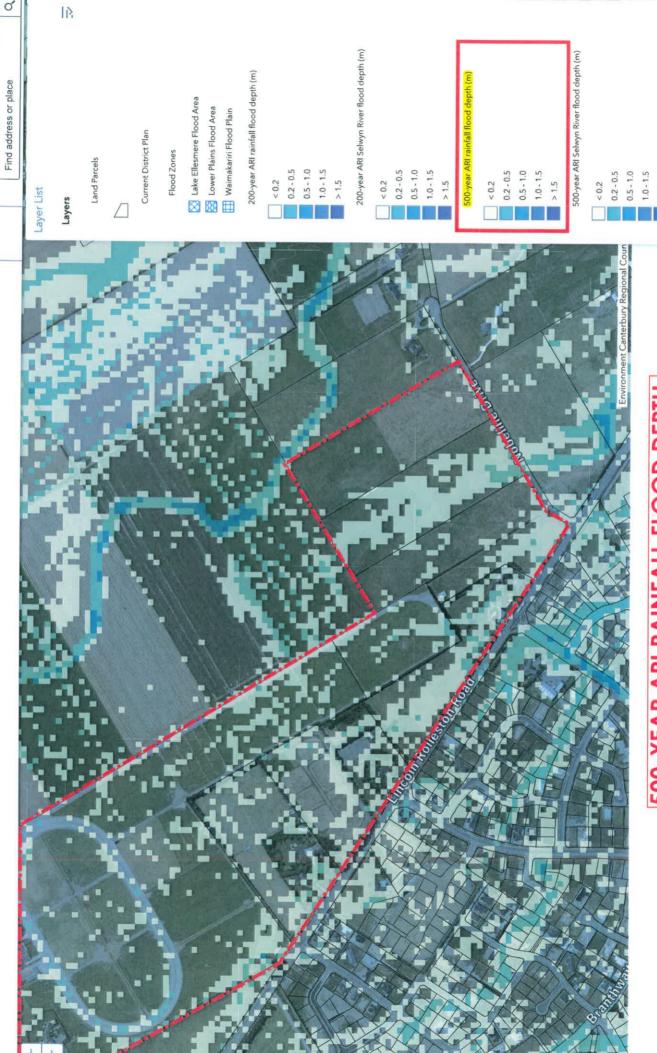




ATTACHMENT 7 - 500 YEAR FLOOD MAP



500-YEAR ARI RAINFALL FLOOD DEPTH



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500-YEAR ARI RAINFALL FLOOD DEPTH