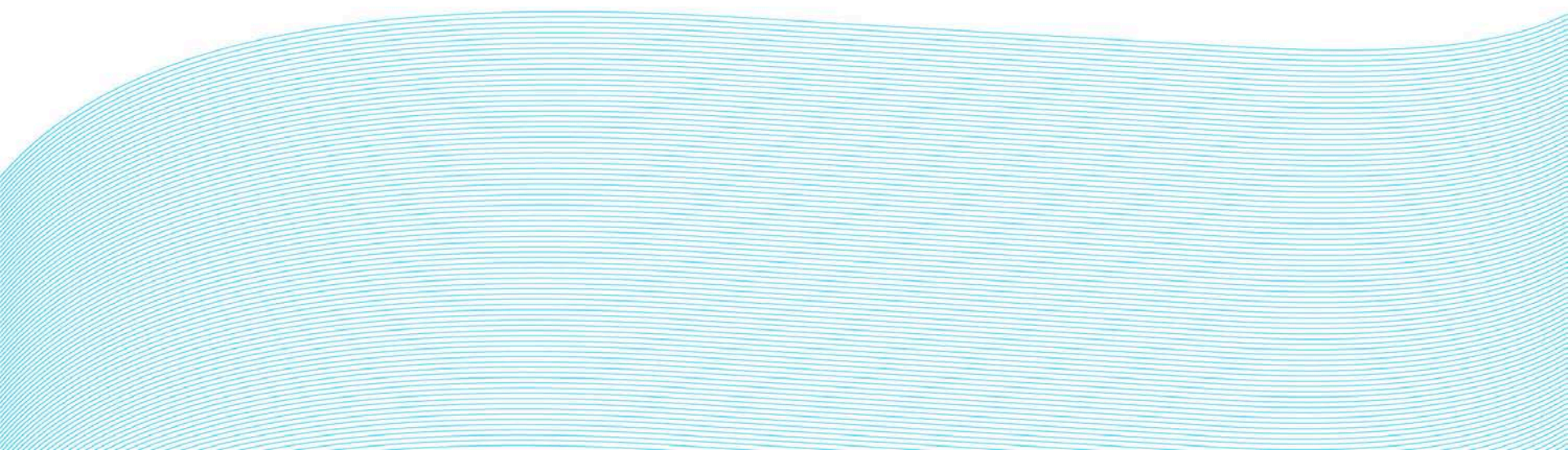




# SUMMARY OF EVIDENCE - PCARP

Neil Betteridge, GM Manufacturing



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# KEY POINTS

- Strategic site selection is critical; suitable sites are hard to come by;
- Development of our manufacturing site is a significant undertaking, done in large steps;
- Our plant is recognised as being appropriately located in the Selwyn District Plan;
- Our air discharges are subject to tight emission controls and a comprehensive monitoring programme.

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# STRATEGIC SITE SELECTION

To be viable our site must be in close proximity to:

- Our milk supply catchment
- Main arterial roads and railway
- A secure & reliable water supply
- Large areas of land suitable for irrigation of process wastewater
- Service providers

Further we chose a low population area to minimise potential impacts on neighbours and reverse sensitivity.

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# SYNLAIT SITE LOCATION





# MILK SUPPLY CATCHMENT



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# SITE DEVELOPMENT

Each development stage is significant in terms of investment and infrastructure.

Stage 1 & Stage 3



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## SITE DEVELOPMENT – EMISSION RATE CHANGES

Boiler emission rates measured during stack testing

Boiler	TSP (mg/dsm <sup>3</sup> )	SO2 (kg/hr)
Boiler 1	5	23.2
Boilers 1 & 2 combined	10	112
Boiler 3	3	60.7
<b>Total boilers 1, 2, 3</b>	<b>13</b>	<b>172.7</b>

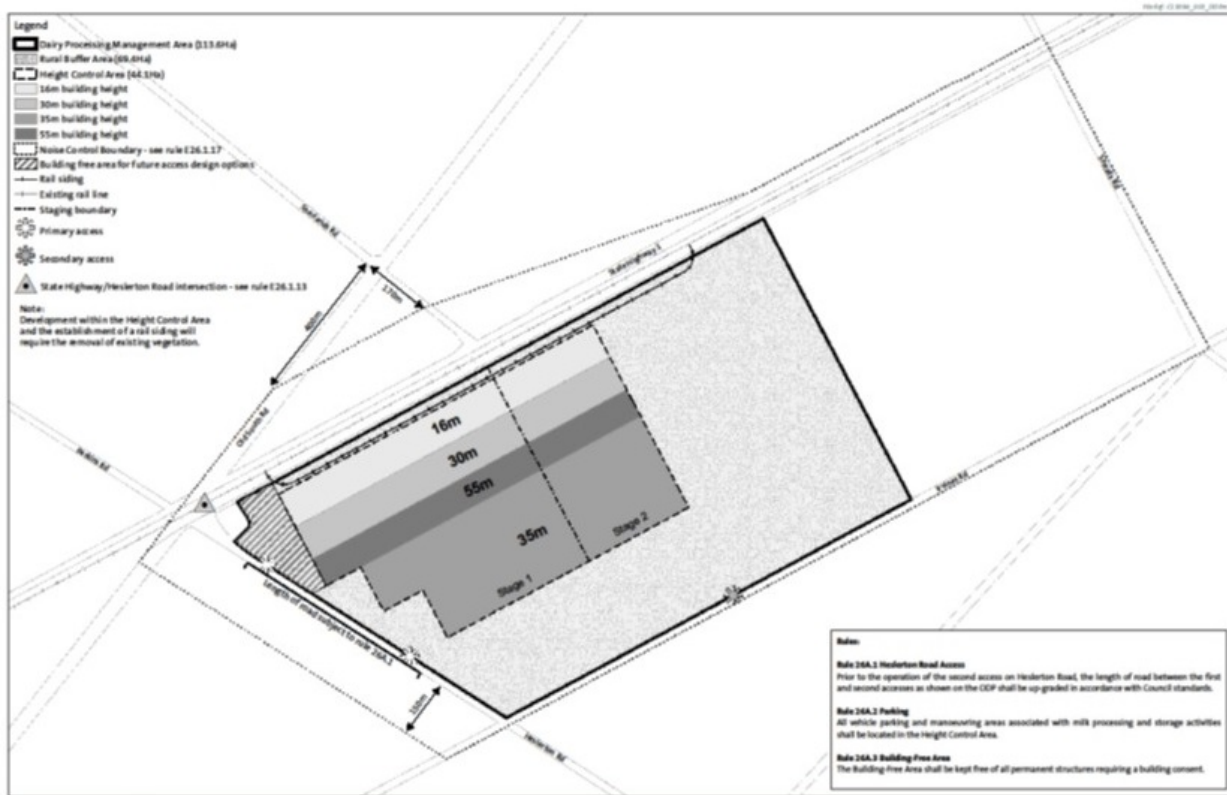
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## DAIRY PROCESSING MANAGEMENT AREA (DPMA)

- Synlait have worked strategically with SDC to secure our continued operations and future development at Dunsandel through a private plan change.
- The DPMA recognises our Dunsandel location is appropriate for our milk processing activities.
- Concentrating our operations at one site is strategically important to Synlait, enabling us to maintain the high level of product integrity vital to our business.



# DPMA ZONING



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# ENERGY CENTRE

Runs 24/7 managing all plant services including steam, water, wastewater, gases, chemicals.

- Boiler operation is a core function
- Highly automated systems monitored in real time
- Comprehensive monitoring of emission control system
  - Particulate meters
  - Baghouse performance
  - Coal quality
  - Boiler efficiency

