SUMMARY OF EVIDENCE - PCARP

Neil Betteridge, GM Manufacturing
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.
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.
SYNLAIT SITE LOCATION
MILK SUPPLY CATCHMENT
SITE DEVELOPMENT

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

Stage 1 & Stage 3
## SITE DEVELOPMENT – EMISSION RATE CHANGES

Boiler emission rates measured during stack testing

<table>
<thead>
<tr>
<th>Boiler</th>
<th>TSP (mg/dsm$^3$)</th>
<th>SO2 (kg/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiler 1</td>
<td>5</td>
<td>23.2</td>
</tr>
<tr>
<td>Boilers 1 &amp; 2 combined</td>
<td>10</td>
<td>112</td>
</tr>
<tr>
<td>Boiler 3</td>
<td>3</td>
<td>60.7</td>
</tr>
<tr>
<td>Total boilers 1, 2, 3</td>
<td>13</td>
<td>172.7</td>
</tr>
</tbody>
</table>
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.
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