Appendix E

Economic and Social Impact Assessment
SCENIC RIM AGRICULTURAL INDUSTRIAL PRECINCT

Social and Economic Impact Assessment
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EXECUTIVE SUMMARY

Introduction

- Kalfresh intends to create an integrated agricultural processing precinct, the Scenic Rim Agricultural Industrial Precinct (SRAIP), at their existing Kalbar operations which are 4km North of Kalbar, on the Cunningham Highway.

- RPS was engaged to prepare a Social and Economic Impact Assessment of the Precinct. The Impact Assessment has been undertaken for the Scenic Rim Regional Council Local Government Area as well as the Australian economy.

Scenic Rim Demographic and Socio-Economic Profile

- The Scenic Rim region has experienced strong population growth in recent years but is ageing rapidly. Like many parts of regional Australia, the Scenic Rim suffers from the loss of young adults and workers from the community and economy.

- Part of the challenge is that as a strong agriculture-based economy, the Scenic Rim lacks jobs opportunities to retain and attract young workers.

- Opportunity exists to leverage significant agricultural production to increase manufacturing and industry-based value adding. This will help to increase employment opportunities, attract new businesses and help to accelerate and diversify the local economy.

- Existing industrial land supply in the Scenic Rim is dominated by the Bromelton State Development Area which serves as both an inland port/multimodal freight hub and a location for heavy industry. Existing industrial land is not suitable for an integrated and purpose built agricultural and industrial land precinct with industrial ecology and waste-to-energy power generation attributes.

SRAIP Economic And Employment Impact Assessment

- At the core of an Employment and Economic Impact Assessments is Input–Output (IO) tables. IO tables are part of the national accounts by the ABS and provide detailed information about the supply and use of products in the Australian economy, and the structure of and inter–relationships between Australian industries.

- For the purpose of calculating appropriate regional multipliers, economic activity across both Scenic Rim and Lockyer Valley regions were considered. This has the effect of providing a critical mass of economic activity to enable reliable adjustments to national multipliers to be made to calculate the impacts on the Scenic Rim economy only, through the development of a regional transaction table.

- Direct and indirect employment impacts of the proposed project are summarised in the table below.

<table>
<thead>
<tr>
<th>Summary</th>
<th>Direct</th>
<th>First Round</th>
<th>Industrial Support</th>
<th>Simple Multiplier</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction (Over 10 Years)</td>
<td>641</td>
<td>279</td>
<td>75</td>
<td>996</td>
</tr>
<tr>
<td>Construction (Annual Average)</td>
<td>64</td>
<td>28</td>
<td>8</td>
<td>100</td>
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<tr>
<td>Operational Jobs</td>
<td>475</td>
<td>414</td>
<td>158</td>
<td>1,047</td>
</tr>
</tbody>
</table>

- RPS has assessed the economic impact of the proposed project during construction and operational phases for both the Scenic Rim and national economies. The Simple Economic Multiplier impacts are summarised below.
Table 2 Summary of Economic Impacts and Contributions, Simple Economic Multiplier, Subject Project

<table>
<thead>
<tr>
<th>CONSTRUCTION</th>
<th>Scenic Rim</th>
<th>Aust</th>
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<tbody>
<tr>
<td>Total</td>
<td>$348.8</td>
<td>$712.1</td>
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<tr>
<td>Output</td>
<td>$46.8</td>
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<tr>
<td>Income</td>
<td>$89.5</td>
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<tr>
<td>Gross Value Added</td>
<td>$17.44</td>
<td>$35.61</td>
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<tr>
<td>Annual Average</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scenic Rim</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>$17.44</td>
<td>$35.61</td>
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<tr>
<td>Output</td>
<td>$2.34</td>
<td>$6.39</td>
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<tr>
<td>Income</td>
<td>$4.47</td>
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<tr>
<td>Gross Value Added</td>
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<td>$11.94</td>
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</table>

<table>
<thead>
<tr>
<th>OPERATIONAL</th>
<th>Scenic Rim</th>
<th>Aust</th>
</tr>
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<tbody>
<tr>
<td>Annual</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scenic Rim</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Output</td>
<td>$425.1</td>
<td>$574.1</td>
</tr>
<tr>
<td>Income</td>
<td>$80.0</td>
<td>$118.3</td>
</tr>
<tr>
<td>Gross Value Added</td>
<td>$140.5</td>
<td>$211.9</td>
</tr>
</tbody>
</table>

- Approximately 37.5% of the construction impact and 66.3% of the operational impact will be captured by the local economy, with the remainder captured by State and National economies (excluding the Scenic Rim).

- Compared to the Gross Regional Product in 2018, the proposed project will contribute total Gross Value Added during the construction phase equivalent to 5.3% of the regional economy. Similarly, upon full completion and development, the operational phase of the project will contribute the equivalent of 8.3% of the current Scenic Rim economy.

**Social Impact Assessment**

- This preliminary Social Impact Assessment has been undertaken in line with the key matters and overarching structure required for an SIA as outlined in the Coordinator General Social Impact Assessment Guideline March 2018. This includes focus on:
  - Community and stakeholder engagement;
  - Workforce management;
  - Housing and accommodation;
  - Local businesses and industry procurement; and
  - Health and community wellbeing.

- It also includes consideration of a number of other social and community impacts identified by Kalfresh and RPS (as the author) as required for other State and Federal Government assessment programs, including:
  - Increases to regional amenity and local quality of living for residents;
  - Improving community connections and inclusion and providing opportunities for learning and knowledge creation.
• The degree to which the project fills a ‘gap’ within the community
• Improving community connections and social inclusion;
• supporting or protecting local heritage and culture; and
• addresses disadvantage within the community.

• The SRAIP will transform, diversify and value add to the Boonah and Scenic Rim communities. It will support a more sustainable and diversified economy which will be less volatile and provide local farmers with an expanded value adding opportunities in the region.

• Additionally, local businesses in construction and manufacturing support sectors will benefit from their involvement in the SRAIP supply chains, improving their sustainability and viability.

• Finally, new jobs will improve the socio-economic and demographic attributes of the region, make employment more accessible for workers currently travelling outside of the region and add much needed sustainability and dynamism to local communities.

• These social impacts are expected to primarily benefit the towns of the Scenic Rim, especially Kalbar and Boonah and is not expected to place pressure on current supplies of emergency, health and community services delivered across the towns and western sub-region of the LGA.

Opportunities to Capture Benefits

• RPS identified a series of potential financial, economic, social and environmental benefits from the establishment and operation of SRAIP. These include:
  – Gross Value Added of Additional Food Production (Kalfresh);
  – Construction Supply Chain (Stage 1 infrastructure only);
  – Value of Digestate;
  – Induced Industrial Production (Non-Kalfresh);
  – Anaerobic Waste to Energy Power Production;
  – Expenditure by New Workers (Kalfresh);
  – Expenditure by New Workers (Non-Kalfresh);
  – Avoided Greenhouse Emissions (Waste);
  – Avoided Landfill Disposal Costs;
  – Avoided Landfill Externalities (Non-Greenhouse Gases);
  – Reduction in Unemployment; and
  – Reduced Travel Time for Repatriated Workers.

RPS estimates that the SRAIP will generate between $229.5m and $327.1m in benefits for the Scenic Rim and State economies and communities over the next 20 years (present value at 7% and 10% discount rates).
Conclusions

- The SRAIP has the potential to positively impact the socio-economic environment and structure of the Scenic Rim. It represents an opportunity to catalyse a shift in the Scenic Rim economy to one that is more sustainable, less volatile/seasonal and more dynamic and diverse. This shift will have the benefit of enhancing the attractiveness of the region to younger workers and families, a demographic needed to both address socio-economic and demographic challenges and gaps emerging in the region.

- Key employment and economic impact findings and conclusions from the report include:
  - **Construction jobs** – 641 direct and 354 indirect local jobs over 10 years;
  - **Additional Operational Jobs** – 475 direct and 572 indirect local jobs annually upon full development;
  - **Construction Gross Value Added** - $89.5m contribution to the Scenic Rim economy (+5.3%) and $238.9m to the Australian economy over the 10 years construction phase; and
  - **Operational Gross Value Added** - $140.5m contribution to the Scenic Rim economy (+8.3%) and $211.9m contribution to the Australian economy annually upon full development.

- Key preliminary social impact findings and conclusions from the report include:
  - **Workforce Management and Impacts** – more sustainable construction pipeline for construction workers and more diverse and accessible and less seasonal, permanent employment opportunities for local workers in the long-term;
  - **Housing and Accommodation** – negligible impact on housing affordability and will likely support house prices in the Boonah region which have been declining or flat over the past 5 years;
  - **Local Businesses and Industry Procurement** – opportunities for local businesses across the project life, particularly during the operational phase, by providing local agricultural producers with a reliable local value adding market for output. Also improved local energy security through the proposed investment in an onsite major anaerobic digester;
  - **Health and Community Wellbeing and Quality of Life** – project employment will generate increased local household incomes and reduce overall income and economic volatility through greater economic diversification;
  - **Regional Amenity** – provide a new and modern industrial environment for workers as well as convenient access to retail and fuel services for workers and visitors;
  - **Filling Gaps in the Community** – helping to incentivise local attraction and retention of younger workers and facilities to offset the emerging demographic imbalance in the region;
  - **Community Connections and Social Inclusions** – encourages and incentivises increased labour force and economic participation, which worsened in the 5 years to 2016.
  - **Support and Protecting Local Heritage and Culture** – the project seeks to progress a local museum offering to promote and support local heritage.
  - **Address Social Disadvantage** – provide employment opportunities and diversified economic activity and value added to improve access of households in the region to key Economic Resources and reduce local unemployment.

- The present value of financial, economic, social and environmental benefits of the SRAIP are estimated at between $229.5m and $327.1m over the 20 years to 2040 (based on 7% and 10% discount rates).
1 INTRODUCTION

This section provides an overview of the structure and content of the Social and Economic Impact Assessment.

1.1 Background and Context

Kalfresh intends to create an integrated agricultural processing precinct, the Scenic Rim Agricultural Industrial Precinct (SRAIP), at their existing Kalbar operations which are 4km North of Kalbar, on the Cunningham Highway.

The vision of the Scenic Rim Agricultural Industrial Precinct is to create a place where primary rural activities and secondary rural industry activities are located within close proximity to each other to create opportunities not feasible in the typical food-to-retailer system. Currently food production starts with the removal of whole crops directly from farms and transported to the urban areas for washing, sorting, processing, and packaging for market. The Scenic Rim Agricultural Industrial Precinct will consolidate the spread of these activities to a smaller geographic region.

The SRAIP will draw food processing and manufacturing businesses to one site in a regional community, enabling the production of fresher food products, faster and at competitive value to enable access to more markets.

Future business activities envisioned for the SRAIP include, but are not limited to:

- Food and beverage production areas, will be allocated the bulk of the site, allowing for allotments with a minimal size of 1-5 ha, with the ability to go up to 20ha depending on individual end-user requirements;

- Rural Industrial Support Services, allowing for Rural and Industrial service industries requiring a smaller development parcel with a minimal allotment size of 4000m2;

- Research and Development and tourism areas - two separate areas will house an office style building with the future ability to provide specialised spaces for test kitchens, laboratories, administration and distribution offices, a data centre, a café, museum and farmgate market shop;

- Ancillary services and development infrastructure - all required services for the SRAIP will be provided as part of the proposed development. Infrastructure uses include:
  - Co-generation facility utilising anaerobic digestion to produce biogas to be utilised to power the proposed cold store units within the SRAIP and digestate to be fed back onto the Kalfresh and affiliated farms;
  - All applicable connections, including power, water, sewerage, telecommunications and transport links.

Preliminary analysis identified a range of potential benefits and impact of the Precinct including:

- Diversification of rural industry and rural production activities in the region, through:
  - Creating continuous demand for food production in the local region;
  - Attract interest and investment to the region;
  - Creating downward pressure on production costs to enable a variety of crops and food production activities that are unable to be realised commercially under the current system e.g. Reduced transportation costs and reduction of “food miles”;
  - Enabling production of fresher food products, faster;
– Provide certainty to landholders, industry and the community about the future planning intent for ongoing investment in agriculture.

• Food Waste Reduction, through;
  – Reuse of crop offcuts, which benefits the local and wider region by;
  – Creating a feed stock source, which would otherwise be financially unviable to send back to the region once in Brisbane City, thus reducing landfill;
  – Creating another food source for human or pet consumption i.e. juicing, ready-made meals and salads, pet food.
  – Production of energy through Anaerobic Digesters
  – Reduction in transportation costs to transfer crops multiple times across the region to reach the retailers.
  – Diversion of organic (food and garden) waste from the surrounding area to produce a higher value compost product.

• Employment Opportunities through;
  – Creating direct year-round (not seasonal) demand from food production operations, in a rural area which typically has a low employment rate
  – Creation of indirect employment through the local economy spending from employees living and migrating to live with the local region i.e. trades, retailers.

• Social Opportunities through;
  – Increased opportunities for regular employment and an increase in the number of employees living and migrating to the local region.
  – Stabilisation of existing local and regional services, including the potential for higher numbers of enrolments in local schools and supporting community services such as the local lions and rotary groups.

• Better Utilisation of Local Infrastructure, particularly water
  – Land in the Fassifern Valley has access to the reliable Lake Moogerah. This reliable water source underpins the region’s horticultural production and the ROI of this water infrastructure is high.

1.2 Report Purpose and Structure

RPS was engaged to prepare a Social and Economic Impact Assessment of the Precinct. This Assessment Report includes the following key sections:

• Introduction – overview of the project background, purpose, structure and study area;

• Scenic Rim Demographic and Socio-Economic Profile – profile of key attributes of the population and economy of the Scenic Rim to inform employment, economic and social impacts;

• Employment and Economic Impact Assessment – an input-output multiplier-based employment and economic impact assessment of construction and operational phases of the project;

• Social Impact Assessment – preliminary multi-criteria analysis (MCA) based social impact assessment of the project;
• **Opportunities to Capture Benefits** – summary of high level cost benefit analysis of the quadruple bottom line benefits from the project over a 20 years period at formal discount rates; and

• **Conclusion** – summary of key conclusions of the project.

### 1.3 Geography and Study Area

For the purposes of this assessment, RPS has defined the Study Area as the Scenic Rim Regional Council. This Local Government Area (LGA) is comprised of three separate Statistical Area 2 (SA2 statistical geography from the ABS):

- Beaudesert;
- Boonah; and
- Tamborine-Canungra.

Additionally, RPS has drawn on economic data for the Lockyer Valley to assist in the development of reasonable and reliable economic and employment multipliers for the Scenic Rim.

This Scenic Rim LGA is illustrated in Figure 1. A more localised map showing the SRAIP site is illustrated in Figure 2.

### 1.4 Glossary and Abbreviation

The following terms and abbreviations are used in this report.

<table>
<thead>
<tr>
<th>Terms and Abbreviations</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABS</td>
<td>Australian Bureau of Statistics</td>
</tr>
<tr>
<td>EIA</td>
<td>Economic Impact Assessment</td>
</tr>
<tr>
<td>GRP</td>
<td>Gross Regional Product</td>
</tr>
<tr>
<td>GVA</td>
<td>Gross Value Added</td>
</tr>
<tr>
<td>LGA</td>
<td>Local Government Area</td>
</tr>
<tr>
<td>MCA</td>
<td>Multi-Criteria Analysis</td>
</tr>
<tr>
<td>SA2</td>
<td>Statistical Area 2</td>
</tr>
<tr>
<td>SEIA</td>
<td>Social and Economic Impact Assessment</td>
</tr>
<tr>
<td>SEIFA</td>
<td>Socio-Economic Index for Advantage</td>
</tr>
<tr>
<td>SIA</td>
<td>Social Impact Assessment</td>
</tr>
<tr>
<td>SRAIP</td>
<td>Scenic Rim Agricultural Industrial Precinct</td>
</tr>
</tbody>
</table>
Figure 1 Scenic Rim Regional Council Local Government Area
Figure 2 Subject Site
2 SCENIC RIM DEMOGRAPHIC AND SOCIO-ECONOMIC PROFILE

This section of the report profiles and summarises key population, demographic, socio-economic and industry attributes of the Scenic Rim, providing critical context and justification for the proposed project.

2.1 Key Findings

The Scenic Rim region has experienced strong population growth in recent years but is ageing rapidly. Like many parts of regional Australia, the Scenic Rim suffers from the loss of young adults and workers from the community and economy. Part of the challenge is that as a strong agriculture-based economy, the Scenic Rim lacks jobs opportunities to retain and attract young workers. Opportunity exists to leverage significant agricultural production to increase manufacturing and industry-based value adding. This will help to increase employment opportunities, attract new businesses and help to accelerate and diversify the local economy.

2.2 Population and Age Profile

The Scenic Rim region has a critical mass of population with 42,583 residents and has historically experienced steady growth, increasing at an annual average growth rate of 1.8% over the past decade. Growth is projected to accelerate in the short-medium term, with an expected average annual growth rate of 22.4% between 2018 and 2031. Growth will continue over the following decade, albeit at a slightly slower pace, at 1.5% per year between 2031 and 2041. Total population within the Scenic Rim will surpass 50,000 people by 2025, with this figure increasing to beyond 67,000 by 2041, a 58.4% total increase from 2018’s population.

Scenic Rim has a significant elderly population, relative to both the rest of the Scenic Rim population figures, as well as the Queensland benchmark of ageing residents. Accounting for more than 1 in 5 residents (20.5%), those aged 65 and over in Scenic Rim are the largest age cohort, followed by children aged 0 to 14 at 19.1%.
There is an apparent gap in younger, working age people, with those aged 25 to 34 making up just 8.9% of the Scenic Rim population, compared with the Queensland standard of 14.2%. Scenic Rim’s share of those aged 15 to 24 and 35 to 44 are also below that of the Queensland benchmark, demonstrating the relative lack of working age people in the region.

In line with the ageing nature of Australia’s population, Scenic Rim’s elderly population is projected to grow, accounting for over 1 in 4 people by 2031 (26.4%), and almost 1 in 3 by 2041 (29.2%).

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2 ABS (2019). Regional Population by Age and Sex, Cat. No. 3235.0, Australian Bureau of Statistics
2.3 Socio-Economic Characteristics

Socio-Economic Indexes for Areas (SEIFA) is a range of four indexes produced by the ABS to rank areas in Australia according to relative socio-economic advantages and disadvantages. The information is based off census data, with the Index of Relative Socio-Economic Advantage and Disadvantage (IRSAD) one of the more commonly used outputs from the ABS’s output. The index is based around a score of 1000 – areas with a score below 1000 are more disadvantaged, and those with a score above 1000 are more advantaged.

The IRSAD presents a value of 968 for the Scenic Rim LGA, indicating a somewhat disadvantaged region. The SA2s within the region present a broad range of relative advantage and disadvantage, with the Tamborine-Canungra identified as an area of relative advantage (1025), while Boonah and Beaudesert SA2s are disadvantaged, scoring 963 and 913, respectively.

<table>
<thead>
<tr>
<th>Geography</th>
<th>Index</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boonah SA2</td>
<td>963</td>
</tr>
<tr>
<td>Beaudesert SA2</td>
<td>913</td>
</tr>
<tr>
<td>Tamborine – Canungra SA2</td>
<td>1025</td>
</tr>
<tr>
<td>Scenic Rim LGA</td>
<td>968</td>
</tr>
</tbody>
</table>

Median income in the Scenic Rim region has historically been below that of the state of Queensland, however from 2011 to 2016 income growth was greater in the Scenic Rim than the state benchmark. Median Weekly Household Income in Scenic Rim grew from $1,013 in 2011 to $1,222 in 2016, a total increase of 20.6%. This is in comparison to Queensland that grew from $1,235 to $1,402 in the same time frame, an increase of 13.5%.

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ABS (2018). Socio-Economic Indexes for Areas (SEIFA), Cat. No. 2033.0.55.001, Australian Bureau of Statistics
Figure 6  Median Weekly Household Income, 2011 and 2016, Scenic Rim LGA and Queensland

Unemployment figures in the region have broadly followed the trend of Queensland’s overall unemployment over the past decade. Over 2014 and 2015 Scenic Rim’s unemployment increased above the State standard, though since 2016 Scenic Rim’s unemployment has balanced between 5% and 6%, below Queensland’s rate of unemployment.

Figure 7  Unemployment Rate, Scenic Rim LGA and Queensland

Further analysis into the region’s unemployment shows that both Boonah SA2 and Tamborine-Canungra SA2 have experienced low unemployment rates over the past decade. Since December 2010, Boonah’s unemployment rate has averaged 4.3%, with Tamborine-Canungra marginally higher at 4.7%. Beaudesert SA2 has had a structurally higher unemployment, with greater fluctuations and a higher average at 8.5% in the same time period.

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5 DESSFB (2019). LGA Data Tables - Small Area Labour Markets, Department of Employment, Skills, Small and Family Business
2.4 Agriculture and Industry

Agriculture, Forestry and Fishing as an industry accounts for the largest share of employees in the Scenic Rim region, with nearly 1 in 7 people (13.3%) employed in the sector. Agriculture, Forestry and Fishing accounts for just 3% of employment in Queensland, indicating the strength of the industry in the Scenic Rim.

Health Care and Social Assistance is another significant contributor to the local labour force (11.5%), with Education and Training and Accommodation and Food Services providing 11.0% and 10.8% of jobs, respectively. A deeper look at agricultural employment in Scenic Rim shows that sheep, beef cattle and grain farming accounts for 4.1% of employment, with dairy cattle farming and mushroom and vegetable growing also key employers in the region (1.9% and 1.8%, respectively).

Figure 8 Unemployment Rate, Boonah, Beaudesert and Tamborine – Canungra SA2s

Figure 9 Top Industries of Employment, Scenic Rim LGA (Queensland Benchmark)

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6 DESSFB (2019). SA2 Data Tables – Small Area Labour Markets, Department of Employment, Skills, Small and Family Business
A majority of businesses in Scenic Rim are non-employing organisations, with two thirds (66.8%) of businesses operating without any employees, higher than the Queensland benchmark of 62.4% of non-employing businesses. 31.8% of Scenic Rim businesses have between 1 and 19 employees and 1.5% of businesses with between 20 and 199 employees. There is an absence of big businesses based in the region, with zero companies reporting more than 200 employees.

Non-residential building approvals have fluctuated significantly over the past 5 years, with no substantial trends or signs of stability in the region. After a productive 2016/17 financial year in which over $92m in non-residential buildings were approved, 2017/18 saw just $16m in value. 2018/19 recovered to over $47m, though still much lower than the lofty standards set in 2016/17.

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**Figure 10** Agricultural Employment, 3 Digit Level, Scenic Rim LGA (Queensland Benchmark)

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**Figure 11** Business Registrations, Scenic Rim and LGA, 2018

Non-residential building approvals have fluctuated significantly over the past 5 years, with no substantial trends or signs of stability in the region. After a productive 2016/17 financial year in which over $92m in non-residential buildings were approved, 2017/18 saw just $16m in value. 2018/19 recovered to over $47m, though still much lower than the lofty standards set in 2016/17.

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Given the lack of consistency in building approvals over the past half a decade in Scenic Rim, the past three years of developments were aggregated in order to establish which sectors have seen growth in buildings. 41% of non-residential building approvals have come from commercial buildings, with retail and wholesale trade buildings the most significant contributor. One third of approvals came from other non-residential buildings, such as aged care facilities, health buildings and short-term accommodation. Industrial buildings accounted for the smallest share in the past three years (26%), inclusive of agricultural buildings and warehouses.

Figure 13 Non-Residential Building Approvals by Type, Past 3 Years, Scenic Rim

2.5 Exports and Gross Regional Product

A majority of exports from the Scenic Rim region stay within Australia, with 94.2% of exports in 2017/18 within the domestic market, leaving just 5.8% of exports heading to international markets. Exports have historically grown at a relatively consistent rate, though a peak in 2012 saw a drop and stagnant level of exports until 2016. Value of exports have since surpassed 2012 levels, with 2017/19 producing $829m in domestic exports and $51m in international exports.

Similar to that of employment, exports from the Scenic Rim are also dominated by the agriculture industry. 2017/18 saw $380m of agricultural exports, accounting for 43.3% of all exports from the region. This was made up of $363.5m in domestic exports and $17.1m in international exports, indicative of the strength of the region as a domestic agriculture supplier. Food product manufacturing was the second most significant industry, with 10.4% of exports at a value of $91.9m. This presents a clear picture of the strengths of the Scenic Rim local economy, with the infrastructure and geographic positioning of the area fostering a relationship between agricultural producers and food product manufacturers.

Figure 14 Exports from Scenic Rim LGA, Domestic and International

Similar to that of employment, exports from the Scenic Rim are also dominated by the agriculture industry. 2017/18 saw $380m of agricultural exports, accounting for 43.3% of all exports from the region. This was made up of $363.5m in domestic exports and $17.1m in international exports, indicative of the strength of the region as a domestic agriculture supplier. Food product manufacturing was the second most significant industry, with 10.4% of exports at a value of $91.9m. This presents a clear picture of the strengths of the Scenic Rim local economy, with the infrastructure and geographic positioning of the area fostering a relationship between agricultural producers and food product manufacturers.

A significant portion of agricultural value stems from livestock, which accounts for over half of the value of agricultural commodities in the region (55%). Vegetables are produced at a large scale in Scenic Rim, making up a fifth (20%) of the value of agricultural commodities, while dairy production is responsible for 12% of the regions agricultural output value.

Gross Regional Product is closely correlated with the level of exports, with GRP following a similar trend to export volume in recent history. After a slight peak in 2012, GRP was stagnant for several years, though the past two years have seen annual growth return, continuing the upward trajectory set pre-2012. Headline GRP was $1,768 in 2017/18 financial year, in real terms based off 2016/17 figures.

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**Figure 15  Top Industries of Total Exports, Scenic Rim LGA**

**Figure 16  Value of Agricultural Commodities, Scenic Rim LGA**

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11 ABS (2017), Value of Agricultural Commodities Produced, Cat. No. 7503.0, Australian Bureau of Statistics
2.6 Industrial Land Profile and Impacts

According the State Government Land Supply and Development Monitor\textsuperscript{13}From 2011 to 2018, approximately 215 hectares of developed industrial land in Scenic Rim was taken up from vacant land. The development mostly occurred on land intended for high impact and low impact industry land and represents a take up rate of approximately 25-30ha per year.

There is 923 hectares of planned industrial land in Scenic Rim as at 2018. This planned industrial land comprised land intended for low, medium and high impact\textsuperscript{14}. Based on historical take up rates, this represents the equivalent of over 30 years of supply.

Similarly, the Land Supply and Development Monitor indicates that current planned and zoned industrial land supplies have the capacity to meet the Shaping SEQ industrial employment targets for the Scenic Rim by almost 4 fold.

\textsuperscript{12}National Institute of Economic and Industry Research (2018). Scenic Rim Regional Council: Gross Regional Product, economy.id


\textsuperscript{14}The 2019 planned industrial land estimate improves upon the estimate provided in the 2018 LSDM Report – it been derived by trialling the application of the developability rules for determining the impact of constraints from the Developable Area best practice research in 2019.
While this overarching supply profile potentially indicates a surplus of industrial land in the region, this does not discount or impact from the need for the SRAIP. These issues are examined below.

### 2.6.1 Bromelton SDA

Firstly, the largest share of current industrial land supply is in High Impact Industries associated with Bromelton SDA. Declared in 2008 and totalling approximately 15,610 hectares, the Bromelton SDA is located near Beaudesert in the Scenic Rim Regional Council.\(^\text{(16)}\)

The Bromelton State Development Area (SDA) is a massive greenfield industrial land development designed to provide long-term land supplies in South East Queensland suitable for medium to large scale industrial activities. The SDA is characterised by access to the standard gauge rail network along the Sydney - Brisbane rail corridor and is positioned as an ideal location for freight and logistics operations to access intrastate and interstate markets. It is also positioned as the potential location for high impact, difficult-to-locate and rail dependent industries.

According to DSDMIP, Industries already established in the Bromelton SDA include:

- **SCT Logistics** - a $30 million intermodal rail freight facility and warehouses on land situated adjacent to the Sydney-Brisbane rail line;
- **GELITA Australia Pty Ltd.** The Australian plant of the GELITA Group manufactures gelatine which is sold as edible gelatine for food industry uses;
- **A.J. Bush and Son's (Manufactures) Pty Ltd.** Established in 1993, A.J. Bush & Sons are recognised internationally as a leading rendering industry producing protein meal and tallow. The company

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\(^\text{16}\) DSDMIP (2019) Bromelton SDA Development Scheme, Queensland, Government, Brisbane
utilises on site clean energy practices by recycling methane content biogas captured from covered anaerobic lagoons to generate electricity for power and recycles wastewater for irrigation on their substantial landholdings;

- Beaudesert Central Waste Management Facility, a waste transfer station operated by the Scenic Rim Regional Council;
- Bromelton Quarry, a hard rock quarry established in 2000 which supplies blue rock to the regional area;
- The Neilsen Group quarry supplying general quarry and gravel products to the regional area;
- Quickcell Technology Products Pty Ltd, concrete manufacturers established in 1993 producing prestressed and precast concrete products.

Approximately 1800 hectares of the Bromelton SDA is anticipated to be developed for industrial uses. Industries considered suitable for the Bromelton SDA include:

- large-lot industrial uses requiring direct access to the national standard-gauge rail network;
- freight and logistics operations (major intermodal freight terminal)
- medium- and large-scale manufacturing and warehousing activities with road and/or rail requirements
- industry support services, freight and logistics/transport servicing depots
- high-impact and difficult-to-locate industries that require separation from non-industrial uses due to the potential for off-site impacts (in the Special Industry Precinct)\(^{17}\).

### 2.6.1.1 Delivery of Infrastructure at Bromelton SDA

Delivery of critical infrastructure within the Bromelton SDA will support future development and economic growth. This includes a trunk water main and the Beaudesert Town Centre Bypass. This infrastructure provides opportunities to build on the momentum of current development activities by major landowners in the SDA.

Key infrastructure issues for the Bromelton SDA include:

- **State Infrastructure Plan** - The State Infrastructure Plan (SIP), released in March 2016, contains two parts – with Part A (Strategy) updated every five years and Part B (Program) updated annually. The SIP outlines the Queensland Government’s approach to planning, investment and delivery of infrastructure in Queensland, particularly in areas of high growth, future economic development or strategic importance such as SDAs. The State Infrastructure Plan also references the Australian Infrastructure Plan (released on 17 February 2016) and the associated Infrastructure Priority List. Of relevance to the future development and economic growth for the Bromelton SDA is the Inland Rail (Melbourne to Brisbane via inland NSW) project, identified as a priority Queensland project to be coordinated by the Department of Infrastructure and Regional Development (Australian Government). The inland rail will connect on the northern extremity of the Bromelton SDA to provide a rail freight corridor connecting south east Queensland to Melbourne, Adelaide and Perth with competitive flow on benefits for freight and logistic operations situated in the Bromelton SDA.

- **Stage 1 trunk water main for Bromelton SDA** - Construction is complete on a $6.5 million joint funded project between the state government, Scenic Rim Regional Council and Queensland Urban Utilities to supply and install a 6.1 kilometres trunk water main connecting the Beaudesert Water Treatment Plant to the Bromelton SDA. This has enabled the provision of reticulated water supply to industry precincts in the Bromelton SDA. Funding of close to $3.3 million was approved through the Building our Regions Program.

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Regional Infrastructure fund to contribute to Stage 1 of the trunk water main. This community infrastructure is critical to industry looking to establish within the Bromelton SDA.

- **Mount Lindesay Highway - Beaudesert Town Centre Bypass** - In April 2015, the Queensland Government announced funding for the design and construction of the Beaudesert Town Centre Bypass to divert heavy vehicles around the town centre. Construction is now complete on this bypass, providing a dedicated route to service the increasing freight demand in the Bromelton SDA through improved access to the Mount Lindsay Highway. The Department of Transport and Main Roads partnered with Scenic Rim Regional Council to deliver the $27.5 million Beaudesert Town Centre Bypass.

- **$30 million freight terminal for Bromelton SDA** - The first train to pull into the new SCT Logistics (Specialised Container Transport) intermodal rail freight facility in the Bromelton SDA made its arrival on 23 January 2017. The 46-carriage interstate train was laden with grocery lines, beverages and timber products heading for the shelves of major Queensland supermarkets and retail outlets. SCT Logistics is a national, multi-modal transport and logistics company operating rail and road haulage. It is strategically located on a 130-hectare site at Beaudesert – Boonah Road, Bromelton and adjoins the National standard gauge rail line between Brisbane and Sydney. The Coordinator-General approved SCT Logistics proposal for a material change of use for High Impact Industry (intermodal rail freight facility and warehouses). The approval for the intermodal rail freight facility includes a main transit warehouse, a supporting office, rail sidings and a hardstand area. The new facility provides up to 75 local jobs with further employment opportunities to be created as SCT Logistics moves into the next phase of operations. The $30 million intermodal rail freight facility supports the strategic vision for the Bromelton SDA to maximise the utilisation of the rail network by providing for multi-modal freight transport interchanges and facilities. Through the National Stronger Regions Fund, the Federal Government granted $9.6 million to assist SCT Logistics to relocate from their current operations site at Acacia Ridge to the Bromelton SDA 18.

### 2.6.2 Trends in Bespoke, Specialised and Integrated Industrial Precincts

Globally, industrial activity continues to evolve and change over time.

Industrial activity in SEQ is evolving and transforming in response to the implementation and adoption of new technologies and improvements gained from the rapid integration of ICT and advanced digital telecommunications.

This trend in maximising industrial activity and process efficiencies mean industrial uses are becoming cleaner, more centralised and more reliant on seamless access to global, national and local supply chains.

Industrial workforces are also changing with higher skilled employment being created to support increased adoption and integration of industrial technologies such as PLCs, robotics, 3D printing and other professional knowledge intensive and scientific capabilities. With this skilled workforce comes a change in the workspace demands for employees, with higher amenity locations, accessible facilities and urban environments increasingly regarded as the norm.

Industrial activity globally remains highly competitive and the rapid adoption of new technologies and business processes is critical to maintaining local competitiveness. Technology is decreasing the growth rate of employment in manufacturing and industrial sectors overall; floor space requirements are increasing as is the need for customised and purpose built facilities.

Technology is also aiding an increase in focus and adoption in waste and by-product management and use. This is being implemented in SRAIP through a combination of an anaerobic digester for waste to power production and the use of digestate by-products as an agricultural fertilizer.

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The innovative biomimicry, industrial symbiosis and technosphere principles being implemented with SRAIP draw inspiration from other purpose built industrial precincts from around the world. The prime example is the Kalundborg eco-industrial park which is located in Denmark.

**Kalundborg Eco-Industrial Park, Denmark**

The history of Kalundborg really began in 1961 with a project to use surface water from Lake Tissø for a new oil refinery in order to save the limited supplies of groundwater. The city of Kalundborg took the responsibility for building the pipeline while the refinery financed it. Starting from this initial collaboration, a number of other collaborative projects were subsequently introduced and the number of partners gradually increased. By the end of the 1980’s, the partners realised that they had effectively "self-organised" into what is probably the best-known example of a working industrial ecosystem, or to use their term – an industrial symbiosis.

In addition to several companies that participate as recipients of materials or energy, the ecosystem today consists of six main partners:

- **Asnæs power station** - part of SK Power Company and the largest coal-fired plant producing electricity in Denmark.
- **Statoil** - an oil refinery belonging to the Norwegian State oil company.
- **Novo Nordisk** - a multi-national biotechnology company that is the largest producer of insulin and industrial enzymes.
- **Gyproc** - a Swedish company producing plasterboard for the building industry.
- **The town of Kalundborg**, which receives excess heat from Asnaes for its residential district heating system.
- **Bioteknisk Jordrens** - a soil remediation company;
- **Local farms and market gardens** – which use biomass and yeast slurry as fertilizers and inputs;
- **Cement industry** – which uses fly ash produced by the power station;
- **Fish farms** – which use residual heat from the power station; and
- **Fertiliser producers** – which use sulphur outputs from oil refining.

Maximising the economic and productive efficiencies of industrial symbiosis and ecology processes in an industrial area requires a dedicated, tailored and purpose built precinct, while maintaining an element of self-organisation. Land fragmentation and uncertainty regarding ownership and production type mean that large scale industrial ecologies and by product use processes cannot be readily retrofitted into existing industrial estates.

### 2.6.3 Local Industrial Land Supplies

There are identified Industry Precincts in both Kalbar and Boonah under the Scenic Rim Regional Planning Scheme 2020 suitable for Low and Medium Impact industries.

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19 Saikku, L (2006,2010), Eco-Industrial Parks, University of Tampere and Regional Council Of Etelä-Savo, Finland
Boonah’s industrial land supplies are concentrated to the south of the township and adjacent to the community of Dugandan on Boonah-Rathdowney Road. The main area zoned for industry accounts for approximately 84ha of Gross Area and straddles the Boonah Airstrip.

A secondary cluster of industrial sites is located on Mt French Road south of Boonah proper. This area is approximately 8ha in size and comprises existing small lots tenancies as well as potential industrial development sites accessible collocated with the Energex depot.

Industrial land supplies in Boonah and not designed to accommodate a purpose built, integrated agricultural manufacturing precinct such as SRAIP. Current and historical occupants have typically been characterised as local servicing industrial businesses supporting town and agricultural activity in transport, machinery and equipment distribution, motor vehicle repair, landscaping supplies and self-storage.

Additionally, While a number of larger parcels are either vacant or underutilised in the southern corridor, these parcel are separated from one another by the Boonah Airstrip or by clusters of existing smaller industrial tenancies or adjacent residential development. This land configuration is not suitable for an integrated industrial development such as SRAIP.
Industrial land supplies in Aratula are limited to a small number of smaller lot tenancies located just east of the Cunningham Highway on Elizabeth Street. These lots are broadly limited to 2,000 sqm each and are targeting local servicing businesses requiring strong access to the Cunningham Highway. The small size of the lots, proximity to the Aratula township and relative distance from major agricultural production means such land is not suitable for SRAIP uses.

### 2.6.4 Need for SRAIP Industrial Land

SRAIP is a unique industrial prospect for Scenic Rim. Existing and planned industrial land supplies in the region either comprise smaller-lot locally focused industrial developments linked to transport, logistics and equipment or the Bromelton SDA, which is expected to accommodate intermodal freight and heavy industry.

Both formats of industrial land are not suitable for a dedicated, integrated and specialised agricultural industrial precinct with a focus on capturing industrial ecology and waste management supply chains. They lack the capacity for lots to be customised and master planned for integrated industrial activity and lack the essential infrastructure needed to facilitate agricultural industrial activity of the scale and integration proposed for SRAIP.
As such, the development of SRAIP at the preferred site does not represent an opportunity cost for either Boonah or Aratula industrial development.

2.7 Contributions to Strategic Priorities

The proposed SRAIP will represent the only dedicated agricultural manufacturing and industrial precinct in the Scenic Rim. Designed to leverage the region’s productive agricultural land and history, SRAIP will contribute to a range of strategic priorities for Australian agricultural regions identified across Federal, State and Local Governments including:

- **Value adding to base agricultural production** – SRAIP will add value to base agricultural production in the region, increasing the value of food production and exports and capturing greater economic benefits from agricultural activity in the region;

- **Increasing regional economic sustainability** – SRAIP will provide a major source of demand for agricultural products in the local area, decreasing local farm dependence on volatile national and international markets while providing long-term certainty for further investment;

- **Improving the viability of regional towns** – the establishment of SRAIP will not only provide a more economically sustainable region, but will likely necessitate an increase in local workers and residents. This will help local towns to grow and establish a critical mass of population to support additional services and improve their overall economic and social viability.

- **Improving regional energy security** – the SRAIP will include local energy product in the form of an anaerobic digester. This will provide for the energy requirements for the precinct, removing the reliance of the industrial and manufacturing activity on base load power infrastructure and capacity; and

- **Managing agricultural fertilizer use and requirements** – the proposed use of digestate by-products from the anaerobic digester for fertilizer will not only provide local farms with a local sustainable source of fertilizer but will also decrease farming requirements for chemical fertilizers.

Additionally, the proposed inclusion of a regional agricultural museum as part of the SRAIP will provide an additional local tourist attraction in the region, that will reinforce local rural and agricultural tourist and town amenities and attractions in the region. The museum will complement local tourist destinations at Kalbar and Aratula and reinforce the attractiveness of the wider region as a peri-urban drive-based tourist destination of choice. The museum also represents an opportunity for local Aboriginal and indigenous history to be celebrated and protected, in partnership with local Indigenous groups.

2.8 Implications for SRAIP

The Scenic Rim has a strong growing but rapidly ageing population. This combination is creating a demographic imbalance, with the region suffering from a deficit of young workers needed to ensure the local economy remains dynamic. Part of the challenge with retaining and attract young workers is a lack of diversity of employment opportunities.

The dominance of agriculture and local population services in the Scenic Rim economy provides limited opportunities for workers in trade and industrial sectors. Similarly, the comparatively small size of the regional economy means the area lacks a consistent pipeline of construction employment to maintain and sustain a local construction workforce.

The Scenic Rim economy has slowed over the past decade and is now starting to recover. Improving the sustainability and resilience of the Scenic Rim economy will require investment in value adding activities. Food manufacturing and processing is a logical value adding opportunity, leveraging the region’s competitive advantage across a range of crops and food stuffs to potentially increase both domestic and international transfers.

The proposed project has the potential to catalyse the regional economy, by substantially increasing the capacity of the Scenic Rim agricultural industrial sector and generate new employment opportunities, attract new businesses and help to support the accelerated and sustainable growth of the Scenic Rim economy.
While there is a notional surplus of planned and zoned industrial land in the Scenic Rim in the long-term, the vast majority of this supply is associated with the Bromelton SDA. Agricultural manufacturing, with associated waste management and industrial ecology best practice, is not a suitable use for the SDA, which instead is focused on heavy industry and intermodal freight.

Additionally, zoned industrial land supplies in Boonah and Aratula are either too small or not suitable to accommodate an integrated agricultural industrial precinct such as SRAIP and instead play an important long-term role accommodating businesses supporting town and agricultural activity across a range of local services.
3 SRAIP ECONOMIC AND EMPLOYMENT IMPACT ASSESSMENT

This section summarises the results of the employment impact assessment for the Scenic Rim Agricultural Industrial Precinct (SRAIP) project by Kalfresh. It includes consideration of both construction and operational phases of the project as well as direct and indirect employment.

3.1 Key Findings

The SRAIP will support up to 100 direct and indirect construction jobs every year over the course of the 10 year construction phase through both civil and non-residential construction activity. Once fully operational, Kalfresh and other occupants of the Precinct will support over 1,000 direct and indirect jobs in the local economy. This will include adding $140.5m in GVA (8.5%) to the Scenic Rim economy each year.

3.2 Methodology and Approach

At the core of an Employment and Economic Impact Assessments is Input–Output (IO) tables. IO tables are part of the national accounts by the ABS and provide detailed information about the supply and use of products in the Australian economy, and the structure of and inter–relationships between Australian industries.

IO tables are converted, through statistical analysis, into a series of Economic Multipliers. These Multipliers represent the relationship between the direct activity (expenditure or production) associated with a project and the wider economy.

The results of an EIA are generally presented as both direct effects, that is effects from the direct activity of the project or event and indirect effects, which are additional effects from further rounds of spending in the supply chain. A third or consumption effect, resulting from rounds of consumer spending generated by the additional income in the region can also be calculated.

There are two broad levels of Multipliers that can be utilised for Impact Assessments:

1. Simple Multipliers – including the Direct or Initial Effect, First Round and Industry Supply Chain effects;
2. Total Multipliers – including the Simple Multipliers plus subsequent Induced Production and Household Consumptions effects.

Impact Assessments can assess

- Output - the actual dollar amount spent on the project in the Region;
- Income - the amount of wages and salaries paid to labour;
- Employment - the full time equivalent per annum employment generated by the project;
- Value Added - the value added to materials and labour expended on the project; and

For the purpose of this analysis, only employment-related impacts have been assessed.

RPS has undertaken an Impact Assessment for the Scenic Rim and national economies. For the Scenic Rim regional economic impacts, this entailed the following tasks:
1. Transaction tables were developed from National IO tables for the Scenic Rim economy. The Australian transaction table was calculated directly from the latest IO tables from the ABS. For the Scenic Rim economy, the Regional Transaction Table was calculated by applying employment-based location quotients for the Region, based on the results of the 2016 Census of Population and Housing. This has the effect of excluding spending on imports to the Region since they generate no local economic activity.

2. Economic Multipliers were then generated for Scenic Rim economy across 119 industry categories defined by the ABS;

3. Construction and operational expenditure and production associated with the development were allocated across 119 industry categories; and

4. Employment impacts associated with the project are calculated.

3.2.1 Criticisms of Impact Assessments

Economic Impact Assessments based on IO-tables and Economic Multipliers have been criticised by Government and academia. RPS recognises Economic Multipliers are based on limited assumptions that can result in multipliers being a biased estimator of the benefits or costs of a project.

Shortcomings and limitations of Multipliers for economic impact analysis include:

- **Lack of supply–side constraints**: The most significant limitation of economic impact analysis using multipliers is the implicit assumption that the economy has no supply–side constraints. That is, it is assumed that extra output can be produced in one area without taking resources away from other activities, thus overstating economic impacts. The actual impact is likely to be dependent on the extent to which the economy is operating at or if it is near capacity.

- **Fixed prices**: Constraints on the availability of inputs, such as skilled labour, require prices to act as a rationing device. In assessments using multipliers, where factors of production are assumed to be limitless, this rationing response is assumed not to occur. Prices are assumed to be unaffected by policy and any crowding out effects are not captured.

- **Fixed ratios for intermediate inputs and production**: Economic impact analysis using multipliers implicitly assumes that there is a fixed input structure in each industry and fixed ratios for production. As such, impact analysis using multipliers can be seen to describe average effects, not marginal effects. For example, increased demand for a product is assumed to imply an equal increase in production for that product. In reality, however, it may be more efficient to increase imports or divert some exports to local consumption rather than increasing local production by the full amount;

- **No allowance for purchasers’ marginal responses to change**: Economic impact analysis using multipliers assumes that households consume goods and services in exact proportions to their initial budget shares. For example, the household budget share of some goods might increase as household income increases. This equally applies to industrial consumption of intermediate inputs and factors of production.

- **Absence of budget constraints**: Assessments of economic impacts using multipliers that consider consumption induced effects (type two multipliers) implicitly assume that household and government consumption is not subject to budget constraints.

- **Not applicable for small regions**: Multipliers that have been calculated from the national I–O table are not appropriate for use in economic impact analysis of projects in small regions. For small regions multipliers tend to be smaller than national multipliers since their inter–industry linkages are normally relatively shallow. Inter–industry linkages tend to be shallow in small regions as they usually don’t have the capacity to produce the wide range of goods used for inputs and consumption, instead importing a large proportion of these goods from other regions.
3.2.2 Adjustments to Improve EIA Reliability

Despite this, IO tables and Economic Multipliers remain popular due to their ease of use and communication of results. RPS has undertaken a number of steps and made appropriate adjustments to the EIA methodology to address and mitigate these concerns.

Firstly, RPS has only used Simple Multipliers in the Assessment. This has the effect of discounting Household Consumption impacts from the assessment. By doing so, only those industries with a first round or supply chain connection are considered. This has the effect of making the results of the EIA conservative and suitable to inform decision making.

Secondly, the Scenic Rim is a small economy. For the purpose of calculating appropriate regional multipliers, economic activity across both Scenic Rim and Lockyer Valley regions were considered. This has the effect of providing a critical mass of economic activity to enable reliable adjustments to national multipliers to be made to calculate the impacts on the Scenic Rim economy only, through the development of a regional transaction table.

RPS regards the use of Employment Multipliers as part of this Assessment as appropriate and measured and the results of the assessment as conservative, defensible and suitable for informing decision making.

3.3 Employment Impacts

3.3.1 Summary of Results

Direct and indirect employment impacts of the proposed project are summarised in the table below.

Table 4 Summary of Employment Impacts, Subject Project

<table>
<thead>
<tr>
<th>Summary</th>
<th>Direct</th>
<th>First Round</th>
<th>Industrial Support</th>
<th>Simple Multiplier</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction (Over 10 Years)</td>
<td>641</td>
<td>279</td>
<td>75</td>
<td>996</td>
</tr>
<tr>
<td>Construction (Annual Average)</td>
<td>64</td>
<td>28</td>
<td>8</td>
<td>100</td>
</tr>
<tr>
<td>Operational Jobs</td>
<td>475</td>
<td>414</td>
<td>158</td>
<td>1,047</td>
</tr>
</tbody>
</table>

3.3.2 Construction

RPS split the total capital expenditure proportionally across the Non-Residential Buildings (covering buildings and associated investments) and Heavy and Civil Engineering (covering civil earth works and infrastructure). Allowances was made for 5% of the capital costs being allocated to Construction Services.

A total of 641 jobs were estimated for the project over 10 years. The project nature of construction work means this figure must be divided by the number of years to get an average annual construction figure of 32 jobs.

First and second round construction multipliers on the Scenic Rim are more subject to regional imports than other sectors. The Scenic Rim lacks a significant internal construction and associated supply chain capacity meaning the First Round and Industrial Support benefits of the project to the local and regional economy are likely to be less significant.

The impact of these multipliers is that the project will support a total of 100 construction related jobs during the 10 year construction phase.

3.3.3 Operational Activity

RPS drew on data provided by Kalfresh on both expected and potential productive uses for the subject site. This includes activity from Kalfresh itself as well as agricultural and food manufacturing related production by other prospective tenants within the development.
Additionally, potential productive capacity was estimated based on floor space estimates from the proposed concept plan for lots not specifically identified by Kalfresh. The value of this productive capacity has generally been allocated to Food Manufacturing, in line with the overall strategic positioning of the development.

Finally, a number of supporting and complementary uses were identified for the development. These included (along with their relevant sector of activity):

- Equipment and palette sales and leasing (i.e. Wholesale trade);
- Lab testing facilities (i.e. Professional Scientific and Technical Services);
- A museum (i.e. Other Services);
- A café (i.e. Food and Beverage Services);
- Fabrication activities (i.e. Metal Containers and Other Sheet Metal Product manufacturing); and
- Distribution and Storage (i.e. Road Transport and Transport Support Services and Storage).

Finally, RPS has estimated ongoing employment based on total annual employment at completion and full development of the subject site.

Based on this RPS estimates the development will support approximately 475 FTE jobs once fully developed, with a further 572 jobs from indirect First Round and Industrial Support.

3.4 Economic Impact and Contribution assessment

3.4.1 Summary of Results

Economic impact can be assessed based on Total Economic Output, Incomes and Gross Value Added. The latter is most closely aligned to Gross Regional and Domestic Product which is the main indicator of the size, composition and growth of the economy.

RPS has assessed the economic impact of the proposed project during construction and operational phases for both the Scenic Rim and national economies. The Simple Economic Multiplier impacts are summarised below.
### Table 5 Summary of Economic Impacts and Contributions, Simple Economic Multiplier, Subject Project

<table>
<thead>
<tr>
<th></th>
<th>CONSTRUCTION</th>
<th>OPERATIONAL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Scenic Rim</td>
<td>Aust</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Output</td>
<td>$348.8</td>
<td>$712.1</td>
</tr>
<tr>
<td>Income</td>
<td>$46.8</td>
<td>$127.7</td>
</tr>
<tr>
<td>Gross Value Added</td>
<td>$89.5</td>
<td>$238.9</td>
</tr>
<tr>
<td><strong>Annual Average</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Output</td>
<td>$17.44</td>
<td>$35.61</td>
</tr>
<tr>
<td>Income</td>
<td>$2.34</td>
<td>$6.39</td>
</tr>
<tr>
<td>Gross Value Added</td>
<td>$4.47</td>
<td>$11.94</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Scenic Rim</th>
<th>Aust</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CONSTRUCTION</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Output</td>
<td>$425.1</td>
<td>$574.1</td>
</tr>
<tr>
<td>Income</td>
<td>$80.0</td>
<td>$118.3</td>
</tr>
<tr>
<td>Gross Value Added</td>
<td>$140.5</td>
<td>$211.9</td>
</tr>
</tbody>
</table>

#### 3.4.2 Scenic Rim Share of National Economic Impacts

The Scenic Rim region is expected to account for varying shares of the economic impact to the Australian economy of the subject project. Specifically examining the Gross Value Added, 37.5% of the construction impact and 66.3% of the operational impact will be captured by the local economy, with the remainder captured by State and National economies (excluding the Scenic Rim).

Figure 21 Scenic Rim Share of Australian Economic Impacts, Construction and Operational Phases, Subject Project
3.4.3 Contribution to Scenic Rim Economy

Gross Regional Product estimates for Scenic Rim are available from Council’s ID economic portal, which summarises annual estimates produced by the National Institute of Economic and Industry Research.

In 2018, the Scenic Rim Gross Regional Product was valued at a total of $1.77b, up 3.3% from the previous year. This represents the third straight year of growth, following a general decline in the economy in the region between 2013 and 2015.

![Image of Scenic Rim Gross Regional Product, 2001 to 2018]

Compared to the Gross Regional Product in 2018, the proposed project will contribute total Gross Value Added during the construction phase equivalent to 5.3% of the regional economy. Similarly, upon full completion and development, the operational phase of the project will contribute the equivalent of 8.3% of the current Scenic Rim economy.
Figure 23 Contribution to Scenic Rim GRP (2019 Levels), Construction and Operational Phases, Subject Project
4 SOCIA IMPACT ASSESSMENT

This section provides a high level assessment of the social impacts of the SRAIP.

4.1 Key Findings

The SRAIP will transform, diversify and value add to the Boonah and Scenic Rim communities. It will support a more sustainable and diversified economy which will be less volatile and provide local farmers with an expanded value adding opportunities in the region. Additionally, local businesses in construction and manufacturing support sectors will benefit from their involvement in the SRAIP supply chains, improving their sustainability and viability. Finally, new jobs will improve the socio-economic and demographic attributes of the region, make employment more accessible for workers currently travelling outside of the region and add much needed sustainability and dynamism to local communities.

4.2 SIA Scope and Structure

This preliminary Social Impact Assessment has been undertaken in line with the key matters and overarching structure required for an SIA as outlined in the Coordinator General Social Impact Assessment Guideline March 2018. This includes focus on:

- Community and stakeholder engagement;
- Workforce management;
- Housing and accommodation;
- Local businesses and industry procurement; and
- Health and community wellbeing.

It also includes consideration of a number of other social and community impacts identified by Kalfresh and RPS (as the author) as required for other State and Federal Government assessment programs, including:

- Increases to regional amenity and local quality of living for residents;
- Improving community connections and inclusion and providing opportunities for learning and knowledge creation.
- The degree to which the project fills a ‘gap’ within the community
- Improving community connections and social inclusion;
- supporting or protecting local heritage and culture;
- addresses disadvantage within the community.

This preliminary Social Impact Assessment builds upon analysis in section 3 of this SEIA Report and assessment of the demographic and socio-economic drivers of the Scenic Rim.
4.3 Methodology and Approach

Multi-criteria assessment (MCA) is a decision-making tool used to evaluate problems when one is faced with a number of different expectations and wants to find the best solutions with regard to different and often conflicting objectives.

The ability of MCA to deal with complex and unstructured decision problems in the sphere social and community impacts, which involve a number of conflicting population, work force, accommodation, amenity, connectivity, inclusion and disadvantage, is the core benefit of the technique.

MCA has the potential to take into account conflicting, multidimensional, incommensurable and uncertain effects of decisions explicitly enabling it to focus more on the decision process itself, and not on a final result.

MCAs is an effective tool for assessing the social impacts in that it allows for qualitative and quantitative indicators and elements to be assessed within one objective and transparent framework. This framework is comprised of the following components:

- **Key Focus Areas** – headline areas of social impact;
- **Elements** – individual social impacts under each Key Focus Area;
- **Description** – identification and summary of the details of each element, including supporting evidence;
- **Role/Impact of SRAIP** – details on the attributes of the SRAIP that relate to this Key Focus Area and Elements and their impact.
- **Significance** – scoring of each impact in terms of its level of significance to the Key Focus Area ranging from Major Adverse (irreversible and significant negative impact) to High Beneficial (ongoing structural improvement in community cohesion, wellbeing and sustainability).
- **Benefits/Mitigations** – identification of how SRAIP delivers benefits under each Key Focus Area or mitigates against negative impacts; and
- **Measures and Monitoring** – key measures suitable for tracking impact and ongoing performance monitoring.

This Framework aligns with the information requirements in the Coordinator General Social Impact Assessment Guidelines as well as providing additional information and evaluations based on the requirements of other funding programs.
### 4.4 Multi-Criteria Analysis Framework

The following matrix summarises the results of the Social Impact Assessment using the MCA framework.

<table>
<thead>
<tr>
<th>Key Focus Area</th>
<th>Element</th>
<th>Description</th>
<th>Role-Impact of SRAIP</th>
<th>Significance (Score)</th>
<th>Benefits and Mitigations</th>
<th>Measures and Monitoring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Local Construction Workforce</td>
<td>Scenic Rim is a peri-urban council with a small and volatile non-residential and infrastructure construction pipeline relative to other more metropolitan locations in SEQ. This means that local construction workers do not have access to a deep and consistent pipeline of construction jobs and may need to regularly leave the region for work.</td>
<td>SRAIP will support 100 direct and indirect construction jobs per year over 10 years in the Scenic Rim Region.</td>
<td>Moderate Beneficial (+1)</td>
<td>SRAIP will provide a more sustainable construction pipeline in the Scenic Rim, providing local construction workers with more consistent access to work over the next decade. Scenic Rim’s construction workforce is underrepresented in the local industry mix meaning that some construction workforce is likely to be required from other locations in southern and western SEQ including Ipswich, Logan and Lockyer Valley.</td>
<td>Number of construction workers (average) per year during each phase of the construction stage.</td>
<td></td>
</tr>
<tr>
<td>Operational Workforce Impacts</td>
<td>Scenic Rim has an established agriculture and food growing sector. However, employment in this sector is characterised by a high degree of seasonality and can be impacted by adverse weather events. This creates economic insecurity and social uncertainty for workers and households linked to this sector.</td>
<td>SRAIP will create significant additional food manufacturing, capacity in the region, generating manufacturing and service sector jobs that are non-seasonal, permanent.</td>
<td>High Beneficial (+2)</td>
<td>SRAIP will generate over 1,000 direct and indirect jobs in the Scenic Rim during the operational phase of the project. The majority of this employment will be in the food manufacturing (and manufacturing generally) sector with support services.</td>
<td>Number of operational workers per year.</td>
<td></td>
</tr>
<tr>
<td>Unemployment Reduction</td>
<td>Scenic Rim has a broadly below average level of unemployment, which is common with regional and agricultural economies. However, unemployment in the Beaudesert SA2 is significantly higher, currently above 8% and peaking over 10% in 2015.</td>
<td>SRAIP will generate employment opportunities during both construction and operational phases which will contribute to the total stock of jobs in the region available to unemployed workers and residents.</td>
<td>Moderate Beneficial (+1)</td>
<td>Assuming 10% of operational jobs generated by the Precinct will be filled by currently unemployed workers, this will save the Government over $500,000 a year in Newstart Allowance benefits and generate over $4m in additional wages and salaries (after tax) per year for previously unemployed workers.</td>
<td>Unemployment rate for Boonah SA2, Beaudesert SA2 and Scenic Rim LGA</td>
<td></td>
</tr>
<tr>
<td>Regional Worker Travel Patterns</td>
<td>In 2016, approximately 24 % of Scenic Rim residents that travel by car to their job travelled between 30 and 50 km to work, compared to 8.7% for Queensland. A further 20% of residents travel between 50 and 250 km to work, compared to 5.6% for the State. This confirms that Scenic Rim residents travel longer distances to access jobs within and outside of the region.</td>
<td>SRAIP will generate ongoing local employment opportunities during construction and operational phases which will allow workers which current travel outside of the LGA to seek local employment instead.</td>
<td>High Beneficial (+2)</td>
<td>Manufacturing workers which current live in and around Boonah and Beaudesert but travel to Ipswich for work travel over 40 minutes to access employment. If 15% of additional workers in SRAIP no longer have to travel to Ipswich for work, this will save those workers over 14,500 hours of travel time valued at over $105,000 per year.</td>
<td>Share of workers which previously travelled outside of the LGA for work.</td>
<td></td>
</tr>
<tr>
<td>Housing Affordability and Availability Impacts</td>
<td>Median House Prices in Boonah fell 8.7% in the year to March 2019 and were broadly flat over the past 5 years20. Median house prices are now less than $300,000 (at $282,000 in March 2019), making them less than 60% of the Queensland average, despite the median household incomes in the Scenic Rim being only 15% below the State. This makes it Boonah generally a more affordable housing market in</td>
<td>SRAIP will generate both population and income growth pressures in the Scenic Rim. This will likely place upwards pressure on house prices. However, the area is a comparatively affordable housing market and has been experiencing downward pressure on prices in recent years.</td>
<td>Negligible (0)</td>
<td>SRAIP will support increased job generation, economic diversification and reduced local economic volatility – all factors which contribute to more robust and sustainable housing markets.</td>
<td>Median house price in Boonah and surrounding areas.</td>
<td></td>
</tr>
<tr>
<td>Non-Resident Worker Accommodation</td>
<td>Scenic Rim has a comparatively small labour market meaning that some non-local workers can be required during peak construction phases of major infrastructure and non-residential construction projects.</td>
<td>SRAIP will generate up to 100 direct and indirect construction jobs, on average over the 10 years construction phases (across both Stages 1 and 2). During this time, it is expected that the vast majority of construction workers will be sourced locally, though peak and specialist construction phases may require workers from outside of the region.</td>
<td>Negligible (0)</td>
<td>Scenic Rim is well serviced by road transport infrastructure, particularly to Ipswich, Logan and Lockyer Valley. It is expected that if a temporary construction workforce is required from outside of the LGA, this will be serviced by workers travelling daily to the Precinct, rather than requiring non-residential worker accommodation in the region.</td>
<td>NA</td>
<td></td>
</tr>
</tbody>
</table>

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### Key Focus Area

#### Local Business and Industry Procurement

**Operational Supply Chain Benefits**
- **Description:** The Scenic Rim is a major agricultural production region. The additional utilisation of major food manufacturing capacity will generate additional local value added demand for food products within the local economy, providing greater market accessibility for farmers and growers in the region.
- **Role/Impact of SRAIP:** SRAIP will add significant food manufacturing capacity, producing $68.4m of Gross Value Added and inducing an additional $72.0m in operational supply chain Gross Value Added a year. It is envisaged that the SRAIP will include wholesale, transport, distribution, equipment rental/hire to support local manufacturing capacity.
- **Significance (Score):** Moderate Beneficial (+1)
- **Benefits and Mitigations:** The supply chain benefits of the SRAIP are the most significant social impact, providing a consistent and reliable internal market for local farmers, which are the core of the Boonah and Scenic Rim communities and towns.
- **Measures and Monitoring:** Share of operational expenditure directed to Scenic Rim firms and companies.

#### Local Energy Production and Security
- **Description:** The Scenic Rim is connected to the Queensland grid of the National Electricity Market and so draws upon and is reliable to SEQ and Queensland electricity production. However, the Scenic Rim has limited local energy production, which impacts the energy and power security of the region, particularly energy intensive local businesses.
- **Role/Impact of SRAIP:** SRAIP will include an anaerobic digester that will initially support a 1-2 MW which will generate 7-14 MWh per year of power. Kalfresh operations will utilise up to 4 MWh of this capacity, providing up to 10 MWh of locally.
- **Significance (Score):** Moderate Beneficial (+1)
- **Benefits and Mitigations:** The digester will result in a significant improvement in local energy security for current and emerging intensive power users, including expanded Kalfresh operations and MWh production of the anaerobic digester.

#### Health and Wellbeing: Community Connections and Social Inclusion

**Economic Participation**
- **Description:** Between 2001 and 2016, the labour force participation rate of the Scenic Rim fell from 59.2% to 55.4%. Over the same time, participation rates in Queensland fell from 62.8% to 61%. Not only did the participation rate in Scenic Rim remain
- **Role/Impact of SRAIP:** SRAIP will generate significant local employment opportunities. These opportunities will be available for people who are currently unemployed, who are working.
- **Significance (Score):** Moderate Beneficial (+1)
- **Benefits and Mitigations:** Increasing the availability and diversity of employment opportunities is critical to driving increased participation in the region economy, which helps to under community connections and social inclusion.
- **Measures and Monitoring:** Participation rates in Boonah SA2 and Scenic Rim LGA

### Key Focus Area

#### Improved Household Income Sustainability

**Description:** Household incomes in the Scenic Rim are 15% lower than the Queensland average. Reduced unemployment and increased wages and salaries are the most effective means for increasing household income. Additionally, increasing the productive capacity of regional economies and diversifying economic activity helps to reduce the impact on household incomes seasonality and variability of agricultural production.
- **Role/Impact of SRAIP:** SRAIP will generate and support direct incomes of over $50m per year for households and businesses, and another $29.1m in indirect incomes.
- **Significance (Score):** Moderate Beneficial (+1)
- **Benefits and Mitigations:** SRAIP will generate ongoing operational employment across a range of production, quality management, technician and management roles. These roles, in a permanent food manufacturing sector operating year round will not only generate direct income for local households but reduce the overall volatility in household incomes through increased revenue diversification.
- **Measures and Monitoring:** Wage and salaries from SRAIP businesses. Median Household Incomes of Boonah SA2 and Scenic Rim LGA

### Key Focus Area

#### Improved Household Income Sustainability

**New and Modern Work Environment**
- **Description:** Worker amenity and safety is maximised when working in new, modern facilities and workplaces. This is particularly the case in manufacturing and industrial sectors, where new equipment and plant are more likely to incorporate workplace health and safety measures and protections.
- **Role/Impact of SRAIP:** SRAIP will be a modern industrial environment, providing workers with a high amenity and safe workplace.
- **Significance (Score):** Moderate Beneficial (+1)
- **Benefits and Mitigations:** Workers at SRAIP will work in new modern industrial facilities with integrated amenities and safety measures.
- **Measures and Monitoring:** Number of worker safety incidents

### Key Focus Area

#### Improved Household Income Sustainability

**Regional Amenity**
- **Description:** Worker in industrial estates in Australia have historically suffered from a lack of local convenience retail and fuel facilities. This means that workers need to travel away from their place of work and home to access necessary food and fuel products. Modern industrial estates are incorporating local cafes and convenience retail to meet worker needs, while providing for heavy and private motor-vehicle fuel needs in an integrated service station.
- **Role/Impact of SRAIP:** The latest SRAIP concept plan includes both cafe/retail and service station capacity to meet local business and worker needs.
- **Significance (Score):** Moderate Beneficial (+1)
- **Benefits and Mitigations:** By providing cafe/retail and service station capacity as part of the Precinct, SRAIP will provide a higher amenity and more sustainable environment for workers.
- **Measures and Monitoring:** NA

### Key Focus Area

#### Improved Household Income Sustainability

**Convenient Worker Access to Retail and Fuel**
- **Description:** Worker in industrial estates in Australia have historically suffered from a lack of local convenience retail and fuel facilities. This means that workers need to travel away from their place of work and home to access necessary food and fuel products. Modern industrial estates are incorporating local cafes and convenience retail to meet worker needs, while providing for heavy and private motor-vehicle fuel needs in an integrated service station.
- **Role/Impact of SRAIP:** The latest SRAIP concept plan includes both cafe/retail and service station capacity to meet local business and worker needs.
- **Significance (Score):** Moderate Beneficial (+1)
- **Benefits and Mitigations:** By providing cafe/retail and service station capacity as part of the Precinct, SRAIP will provide a higher amenity and more sustainable environment for workers.
- **Measures and Monitoring:** NA

### Key Focus Area

#### Improved Household Income Sustainability

**Filling Gaps in the Community**

**Working Age Population Profile Gaps**
- **Description:** Scenic Rim has a current and emerging demographic gap in young workers and families. Scenic Rim’s population is already significantly older than the State averages with the share of residents aged 65+ growing rapidly. This creates an imbalance in the regional demographic profile, with fewer workers to generate the local economic vitality to support retirees and older households.
- **Role/Impact of SRAIP:** SRAIP will generate significant local and regional employment (direct and indirect) during both construction and operational phases. These employment opportunities will be filled by local workers as well as new workers to the region.
- **Significance (Score):** Moderate Beneficial (+1)
- **Benefits and Mitigations:** These employment opportunities will make the region more attractive for new and current workers, particularly younger workers and families.
- **Measures and Monitoring:** Number of new workers by age
<table>
<thead>
<tr>
<th>Key Focus Area</th>
<th>Element</th>
<th>Description</th>
<th>Role/Impact of SRAIP</th>
<th>Significance (Score)</th>
<th>Benefits and Mitigations</th>
<th>Measures and Monitoring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indigenous Employment Opportunities</td>
<td></td>
<td>below the State average, it declined at a more rapid rate, making the gap with Queensland in 2016 even larger.</td>
<td>outside of the region and those people who are currently not in the workforce.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supporting and Protecting Local Heritage and Culture</td>
<td>Museum Opportunity</td>
<td>In 2016, 2.8% of the population aged 15-65 (working age population) identified as Indigenous and/or Torres Strait Islander. This is below the State average.</td>
<td>For the purpose of this assessment, RPS has assumed that new jobs generated will include a share of indigenous workers at a proportion similar to the 2016 share of the working age population of the region.</td>
<td>Negligible (0)</td>
<td>NA</td>
<td>Share of workers at SRAIP that identify as Indigenous and/or Torres Strait Islander</td>
</tr>
<tr>
<td>Address Social Disadvantage</td>
<td>SEIFA Improvement and Unemployment Reduction</td>
<td>Beaudesert and Boonah SA2s both had below average socio-economic indexes in 2016. This was principally due to low Economic Resources from a combination of the composition of the workforce and the high share of older residents (many of whom are on fixed incomes). Additionally, lower socio-economic attributes in Beaudesert reflected a significantly higher unemployment rate in that location.</td>
<td>SRAIP will generate significant local employment opportunities during both construction and operational phases. This will generate more sustainable, ongoing jobs for residents.</td>
<td>Moderate Beneficial (+1)</td>
<td>The addition of manufacturing jobs into the Scenic Rim economy will help address lower socio-economic attributes by providing jobs for unemployed residents and helping to incentivise the attraction and/or retention of younger household, helping to address socio-economic challenges caused by an older and rapidly ageing population.</td>
<td>SEIFA index results in 2021 and 2006 for Boonah and Beaudesert SA2s and the Scenic Rim, including headline and Economic Resources Indexes. Unemployment rate in Boonah and Beaudesert SA2. Population age profile including share of population aged 25-44.</td>
</tr>
</tbody>
</table>
4.5 Impacts on Towns within Scenic Rim

4.5.1 Local Towns

The SRAIP is strategically positioned to benefit a range of towns and communities on the western side of the Scenic Rim region. In particular, positive social and economic impacts of SRAIP will directly impact and benefit:

- **Kalbar** – the closest town with a strong and proud agricultural history. The town of Kalbar is home to 800 residents in 2016, up from 723 in 2011. This positive population growth is somewhat unique for a rural agricultural town in Australia and reflects the strong connectivity of the town via the Cunningham Highway and Boonah Fassifern Road. This connectivity has helped to support the attraction of car-based tourist visitation, leveraging the town’s German heritage, colonial buildings and green change lifestyle.

- **Boonah** – Boonah is the largest town in the western sub-region of the Scenic Rim. Home to over 2,500 people, the town is a service and business hub for a wider catchment of over 12,000 people in towns and communities including Kalbar, Aratula, Harristvale and Peak Crossing. Boonah has a long history as the main street and centre of the wider agricultural district and maintains a rural lifestyle attractive the families, workers and retirees alike. Boonah is also home to a diverse range of local and regional services that meet the needs of the local population as well as servicing into surrounding communities.

- **Aratula** - The village of Aratula is located on the Cunningham Highway at the foot of Cunningham’s Gap. Aratula is home to 541 residents in 2016, up from 515 in 2011. Aratula offers commercial services, local produce, arts and crafts outlets, cafes, a bakery, service stations, a primary school, School of Arts hall, a hotel, motels, caravan park and camping grounds.

The towns of Kalbar and Boonah are expected to experience the greatest impacts from the development. The SRAIP will generate significant economic activity that will help to ensure the long-term sustainability of the towns at a time in Australia when regional and agricultural-based communities are declining. This includes through improved employment accessibility, unemployment reduction, local business supply chain benefits and improved working age population attraction and economic participation.

The position of the development and the integrated nature of the Precinct means that the transport impacts on the communities are likely to be minimal, while housing impacts are also expected to be minor, as a portion of the workforce is expected to already be locally based and take up the opportunities presents by the Precinct to repatriate to the Scenic Rim.

4.5.2 Social Profile of Local Towns

Key population, demographic, socio-economic and industry attributes of the three highlighted towns of Aratula, Boonah and Kalbar are compared to those of the greater Scenic Rim LGA. This provides more detailed context as to how the SRAIP will impact the towns within the LGA.

4.5.2.1 Population and Age Profile

Aratula is the smallest town of the three with a population of 453 people, with Kalbar (800) people and Boonah (the largest town in the western sub-region of the Scenic Rim LGA at 2,696 people) both larger again.

The median ages of Aratula, Kalbar and Boonah are 42, 39 and 46 years of age respectively, which shows a minor amount of localised age profile variation across the greater Scenic Rim LGA (median age of 44).

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This is further illustrated in the comparable population age profiles. However, there is an exception of Boonah’s significantly higher proportion of people aged 65+ (28.5%) when compared to the Scenic Rim LGA average of 20.2%.

4.5.2.2 Socio-Economic Characteristics

Socio-Economic Indexes for Areas (SEIFA), as previously discussed in section 2.3, can be compared across the highlighted towns with the wider Scenic Rim LGA. The four indexes included are the:

- Index of Relative Socio-economic Advantage and Disadvantage (IRSAD),
- Index of Relative Socio-Economic Disadvantage (IRSD),
- Index of Economic Resources (IER) and
- Education and Occupation (IEO).

Due to the availability of ABS data, the indexes are only scored to the State Suburb areas (SSC) which all include a larger area than the UCL areas. The scores across the areas are similar for IRSAD, IRSD and IEO indicating a relative disadvantaged region. However in terms of Economic Resources, only Boonah SSC presents a score under 1000 (964) while the other towns and Scenic Rim LGA score above 1000 indicating that there is a gap in economic resources between the towns.

Table 6 SEIFA Scores - Aratula, Kalbar, Boonah (SSC) and Scenic Rim LGA

<table>
<thead>
<tr>
<th>Geography</th>
<th>IRSAD</th>
<th>IRSD</th>
<th>IER</th>
<th>IEO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aratula</td>
<td>923</td>
<td>949</td>
<td>1011</td>
<td>887</td>
</tr>
<tr>
<td>Kalbar</td>
<td>950</td>
<td>982</td>
<td>1019</td>
<td>923</td>
</tr>
<tr>
<td>Boonah</td>
<td>914</td>
<td>931</td>
<td>964</td>
<td>906</td>
</tr>
<tr>
<td>Scenic Rim LGA</td>
<td>968</td>
<td>983</td>
<td>1018</td>
<td>962</td>
</tr>
</tbody>
</table>


24 ABS (2018). Socio-Economic Indexes for Areas (SEIFA), Cat. No. 2033.0.55.001, Australian Bureau of Statistics
4.5.2.3 Income

The median weekly household incomes are relatively lower across Aratula, Kalbar and Boonah UCLs at $1148, $996 and $950 respectively, in comparison to the Scenic Rim LGA median of $1,270.

![Median Weekly Household Income](image_url)

**Figure 25 Median Weekly Household Income- Aratula, Kalbar, Boonah (UCL) and Scenic Rim LGA**

4.5.2.4 Employment and Education

Education levels indicated by the percentage of the population over 15 years of age with post-secondary qualifications are lower across the highlighted towns in comparison to the Scenic Rim LGA. Boonah had the lowest rate with 32.2% compared to wider the Scenic Rim’s rate 40%.

<table>
<thead>
<tr>
<th>Aratula</th>
<th>Kalbar</th>
<th>Boonah</th>
<th>Scenic Rim LGA</th>
</tr>
</thead>
<tbody>
<tr>
<td>33.1%</td>
<td>33.6%</td>
<td>32.2%</td>
<td>40.0%</td>
</tr>
</tbody>
</table>

**Table 7 Population over 15 years of age with Post-Secondary Qualifications Aratula, Kalbar, Boonah (UCL) and Scenic Rim LGA**

The labour force in the three towns are somewhat weaker than the wider LGA as indicated by the lower participation rate. Boonah presents a participation rate of 49.9% which is significantly lower than the rate of 60.2% for the Scenic Rim LGA. This is reflected in the median weekly incomes above.

<table>
<thead>
<tr>
<th>Aratula</th>
<th>Kalbar</th>
<th>Boonah</th>
<th>Scenic Rim LGA</th>
</tr>
</thead>
<tbody>
<tr>
<td>56.3%</td>
<td>56.1%</td>
<td>49.9%</td>
<td>60.2%</td>
</tr>
</tbody>
</table>

**Table 8 Participation Rate - Aratula, Kalbar, Boonah (UCL) and Scenic Rim LGA**

However, unemployment rates are more varied across the towns ranging from 4.4% in Kalbar to 10.1% in Aratula. The Scenic Rim LGA unemployment rate is 6% which has trended below the State standard since 2016.

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Table 9 Unemployment Rate - Aratula, Kalbar, Boonah (UCL) and Scenic Rim LGA\(^{28}\)

<table>
<thead>
<tr>
<th></th>
<th>Aratula</th>
<th>Kalbar</th>
<th>Boonah</th>
<th>Scenic Rim LGA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unemployment Rate</td>
<td>10.1%</td>
<td>4.4%</td>
<td>7.5%</td>
<td>6.0%</td>
</tr>
</tbody>
</table>

The top five industries by employment numbers are similar across the towns and Scenic Rim LGA, with Agriculture and Farming, Health Care and Social Assistance, Education and Training, Retail Trade and Construction industries being significant source of jobs for the region. Due to the significantly smaller labour forces in the towns relative to the wider LGA, manufacturing appears to be in Kalbar’s top five industries however only employs one (22) more person than the construction industry (21).

Table 10 Top Five Industries of Employment - Aratula, Kalbar, Boonah (UCL) and Scenic Rim LGA\(^{29}\)

<table>
<thead>
<tr>
<th>Rank</th>
<th>Aratula</th>
<th>Kalbar</th>
<th>Boonah</th>
<th>Scenic Rim LGA</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Agriculture, Forestry and Fishing</td>
<td>Health Care and Social Assistance</td>
<td>Health Care and Social Assistance</td>
<td>Construction</td>
</tr>
<tr>
<td>2</td>
<td>Retail Trade</td>
<td>Retail Trade</td>
<td>Agriculture, Forestry and Fishing</td>
<td>Health Care and Social Assistance</td>
</tr>
<tr>
<td>3</td>
<td>Health Care and Social Assistance</td>
<td>Education and Training</td>
<td>Retail Trade</td>
<td>Education and Training</td>
</tr>
<tr>
<td>4</td>
<td>Construction</td>
<td>Agriculture, Forestry and Fishing</td>
<td>Education and Training</td>
<td>Agriculture, Forestry and Fishing</td>
</tr>
<tr>
<td>5</td>
<td>Education and Training</td>
<td>Manufacturing</td>
<td>Construction</td>
<td>Retail Trade</td>
</tr>
</tbody>
</table>

4.5.2.5 Indigenous Status

Kalbar has a higher share of population with indigenous status compared to the region average with approximately 6% of the population being Aboriginal and/or Torres Strait Islander. This is significantly higher compared to Aratula’s share of 0.7% and the Scenic Rim LGA average of 3.0%.

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4.5.3 Social and Community Facilities Need Impact

The development at full completion is expected to support upward of 475 FTEs. Many of these workers are expected to be drawn from local residents in towns like Kalbar, Aratula and Boonah and so the net additional requirement for community, emergency and other social services from these workers at the SRAIP is expected to be a zero (as they are already living in the area).

A review of EDQ’s Community Facilities Guidelines illustrates the population thresholds at which new community facilities and services are required. These include:

- Ambulance – 1 facility per 25,000 people;
- Community Health Centre – 1 facility per 20,000 to 30,000 people;
- Fire and Rescue – dedicated local facility when the service catchment has a population over 25,000 people;
- Police – 1 facility per 20,000 to 30,000 people

It is understood that these population thresholds were specifically referencing service rates required for new growth areas. Similarly, it is understood that more rural and regional areas, that are more spatially disconnected from the broader urban and metropolitan service network, require local facilities and services at a lower thresholds.

According the ABS, the Boonah SA2, which includes the towns of Boonah, Kalbar and Aratula, was home to a population of 12,150 in 2018. Based on this population alone, the towns within the Boonah SA2 do not have a sufficient critical mass of residents to justify a range of health, emergency and community services.
Despite this, and because of the more peri-urban and rural nature of the area, Boonah, Aratula and Kalbar are home to the following services:

- Aratula Community Sports Centre;
- Boonah Ambulance Station;
- Blue Care Fassifern Community Care and Boonah Hospital and Health Services;
- Boonah Police Station
- Boonah Fire Station
- Kalbar Fire Station; and
- Kalbar Police Station.

The lack of population critical mass in the Boonah SA2 supporting these facilities and services means the addition of non-resident workers at the SRAIP site is unlikely to require an uplift in current service provision. Instead, the net addition of demand for emergency, health and community services from non-resident workers will help to build a critical mass of need to support and justify a higher quality of community service offering in the region in the long-term.

4.5.4 Housing Impacts

There is expected to be approximately 450-475 FTE operational workers at the Precinct once fully developed. Based on the manufacturing full-time/part-time split this is equivalent to approximately 600 individual workers\(^\text{33}\).

For the purposes of the CBA in section 5.0 f this report, RPS assumed that 10% of the future workers already live in the Scenic Rim and currently work elsewhere and will be "repatriated" to the region for their new job. These workers will not result in new housing demand as they already live in the area.

RPS also assumed that 10% of the workforce will be drawn from unemployed peoples across the region. For the purposes of housing, this may trigger a shift from public/community to private housing but it is recommended this group be excluded from housing demand as it is not verifiable at this time.

According to the 2016 Census journey to work data, 76.2% of current manufacturing jobs in Scenic Rim are filled by locally based workers (i.e. residents of the Scenic Rim)\(^\text{34}\). There is currently limited additional workers in the region that could fill the SRAIP wholly fill roles in the short-to-medium term. As such, it is more appropriate to assume that 50% of new jobs will be filled by workers that migrate to the area with the remaining half accounted for by workers travelling into the Scenic Rim (from Logan for example). This would likely trend over time back to the 76.2% but that is a long-term shift and would be outside short-to-medium term housing demand timeframes.

RPS have already accounted for 20% of workers living in the Scenic Rim based on the repatriated and unemployed workers so that leave 30% of jobs filled by new residents to the region.

Approximately 9.8% of dwellings in the Boonah SA2 were vacant at the last Census period\(^\text{35}\), which is below State and national averages. This rate is typically associated with normal vacancies of housing stock at any one time, and is not representative of a significant quantity of housing stock available for new people. This would mean that new houses would be required.

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\(^{33}\) Derived from ABS Cat No 6291.0 Labour Force Australia, Australian Bureau of Statistics, Canberra


Assuming 1.05 worker per house (based on one in 20 houses accommodating two SRAIP workers), then this would yield a total housing demand in the region of 171 new houses.

This housing stock would likely be primarily (90%+) comprised of detached houses in line with the prevailing housing stock availability and the poorer feasibility of higher density stock in the region, though medium density approvals have improved in recent years.

A higher proportion of rentals would likely be needed in the short-term to facilitate in migration but would likely shift back to owner occupier households due to the prevailing affordability of local housing stock. It is also highly likely that this housing need will be principally captured by Boonah and Kalbar with secondary demand in Aratula.

Finally, a review of land supply estimates from DSDMIP suggest there is more than sufficient realistically developable land that could be brought to market in the short-to-medium term to accommodate this housing demand.

4.6 Other Impacts on Local Towns

The economic nature of SRAIP means that the social impacts of the Precinct on the town are likely limited to displaced economic and business activity or associated opportunity costs from the concentration of industrial activity on the subject site and away from existing towns. As highlighted in section 2.6, both the Bromelton SDA and zoned industrial land adjacent to the towns of Boonah and Aratula, are not appropriate locations for SRAIP or associated integrated food manufacturing activities and therefore the development of SRAIP does not represent an economic opportunity cost for town-based industrial development.

Similarly, the proximity of the towns of Boonah, Kalbar and Aratula to the proposed development means that businesses and residents of all 3 towns will continue to have access to supply chain expenditure and employment opportunities associated with the development SRAIP, despite not collocating with one of the towns.

The benefits of collocating with one of the towns (namely Boonah) is also likely be outweighed by the impacts the establishment of a large scale food manufacturing precinct with onsite digestate production and vehicle-based freight traffic would have on local town road access and operational interface impacts with local residents.

Interestingly, the social profile of the three closest major towns - Aratula, Kalbar and Boonah – reveals local socio-economic profiles that are generally lower than that of the Scenic Rim as a whole. This is particularly the case across issues such as education, socio-economic disadvantage, incomes and unemployment. The development of SRAIP has the potential to assist with these issues, by providing a local source of permanent employment opportunities in a region characterised by an above average share of seasonal and casual employment.

No negative impact issues were identified by Scenic Rim Regional Council during engagement.

4.7 Social Impact Conclusions

The SRAIP will transform, diversify and value add to the Boonah and Scenic Rim communities. It will support a more sustainable and diversified economy which will be less volatile and provide local farmers with an expanded value adding opportunities in the region. Additionally, local businesses in construction and manufacturing support sectors will benefit from their involvement in the SRAIP supply chains, improving their sustainability and viability.

Finally, the jobs generated in SRAIP will also help to:

- Increase the attractiveness of the region to younger workers and households addressing socio-economic and age profile challenges in the region
- Reduce unemployment by providing more sustainable ongoing permanent employment opportunities;
REPORT

- Improve the quality of life of workers by reducing travel times within and outside of the Scenic Rim for work and retail/service access;

- Reduce the volatility and improve the sustainability and dynamism of local communities through more permanent, non-seasonal employment and economic opportunities.

Overall, the MCA-based Social Impact Assessment identified no major negative impacts to the community with the overall Social Impact Score from the assessment being overwhelmingly positive.

Boonah, Kalbar and Aratula are likely to experience the most significant impacts among the towns of the Scenic Rim and these social and economic impacts are likely to be overwhelmingly positive, helping to improve the long-term sustainability of the townships.
5 OPPORTUNITIES TO CAPTURE ECONOMIC AND SOCIAL BENEFITS

This section identifies and quantifies opportunities for Kalfresh and the SRAIP project to capture economic and social benefits. It includes consideration of both construction and operational phases of the project as well as direct and indirect employment.

5.1 Key Findings

SRAIP are expected to yield a range of economic and social benefits, including direct economic and supply chain contributions, local accessible employment opportunities, local energy production and seasonal and structural benefits to the region’s agriculture.

5.2 Quantified Economic and Social Benefits

RPS has identified a series of opportunities for the project to capture and yield economic and social benefits for the communities of the Scenic Rim. These benefits were identified and assessed as part of a Building Better Regions Fund application in 2019 and apply to the project as a whole as well as initial catalytic stages.

A summary of these benefits, and the approach taken to calculate their value are outlined in the table below.

<table>
<thead>
<tr>
<th>Benefit</th>
<th>Description</th>
<th>Calculation Approach</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gross Value Added of Additional Food Production (Kalfresh)</td>
<td>The Gross Value Added of food manufacturing production from Kalfresh specific sites. Based on the net additional production output and the direct gross value added share captured by the local economy. Represents additional production in the Scenic Rim that otherwise would not occur.</td>
<td>Estimated using the Scenic Rim specific Economic Impact Assessment model, utilised by RPS in the SRAIP SEIA report for the Queensland Coordinator General. Economic impact Assessment model transaction table was adjusted to the Scenic Rim economy. Direct benefits only are captured.</td>
</tr>
<tr>
<td>Construction Supply Chain (Stage 1 infrastructure only)</td>
<td>The indirect gross value added generated by capital construction costs for the specific construction items (civil and digestor supporting infrastructure). Represents the impact on the Scenic Rim construction supply chain from the new capital investment. Excludes the impact of subsequent construction in the Precinct.</td>
<td>Estimated using the Scenic Rim specific Economic Impact Assessment model, utilised by RPS in the SRAIP SEIA report for the Queensland Coordinator General. Economic impact Assessment model transaction table was adjusted to the Scenic Rim economy. Indirect Industry Production Induced Gross Value Added values only.</td>
</tr>
<tr>
<td>Value of Digestate</td>
<td>The market value of digestate by-product from the Digestor’s anaerobic energy production. Used as a fertiliser for agricultural production.</td>
<td>Based on daily production of 100 tonnes with an application of 30m3 of production per hectare and a net value savings of $250 per hectare.</td>
</tr>
<tr>
<td>Induced Industrial Production (Non-Kalfresh)</td>
<td>The Gross Value Added of food and other manufacturing production from other non-Kalfresh industrial sites developed and occupied as part of the Precinct. Assumes 50% of sites occupied for food manufacturing and the remainder for other general food-related industry.</td>
<td>Turnover/output estimated by approximating employment for each site and deriving turnover values for manufacturing businesses based on Queensland Business Registrations data from the ABS.</td>
</tr>
<tr>
<td>Benefit</td>
<td>Description</td>
<td>Calculation Approach</td>
</tr>
<tr>
<td>---------</td>
<td>-------------</td>
<td>---------------------</td>
</tr>
<tr>
<td>Energy Production</td>
<td>Value of energy produced from the anaerobic digester.</td>
<td>Assumes a 1MW plan with an annual production of 7,000 MWh per year. Valued based on annual volumed weighted average spot prices of $66.00 per MWh.</td>
</tr>
<tr>
<td>Expenditure by New Workers (Kalfresh)</td>
<td>Value of non-housing and non-health-related expenditure by net additional workers associated with Kalfresh operations.</td>
<td>Based on MarketInfo expenditure data for the Scenic Rim from MarketDataSystems. Assumes approximately $30,087 expenditure per net additional worker, excluding previously unemployment and repatriated workers (benefits quantified separately).</td>
</tr>
<tr>
<td>Expenditure by New Workers (Non-Kalfresh)</td>
<td>Value of non-housing and non-health retail-related expenditure by net additional workers associated with non-Kalfresh operations.</td>
<td>Based on MarketInfo expenditure data for the Scenic Rim from MarketDataSystems. Assumes approximately $30,087 expenditure per net additional worker, excluding previously unemployment and repatriated workers (benefits quantified separately). Operational workers only.</td>
</tr>
<tr>
<td>Avoided Greenhouse Emissions (Waste)</td>
<td>CO2e value of emissions savings from the redirection to the anaerobic digester of food waster that would otherwise be disposed in landfill.</td>
<td>Approximately 48,190 tonnes per annum of landfill diversion to the digester, saving 1.9t CO2e of emissions per tonne. Valued at $45/tonne CO2e (fully market and environmental impact costing).</td>
</tr>
<tr>
<td>Avoided Landfill Disposal Costs</td>
<td>Avoided disposal costs from the redirection to the anaerobic digester of food waster that would otherwise be disposed in landfill.</td>
<td>Approximately 48,190 tonnes per annum of landfill diversion to the digester, saving $67.33 per tonne of direct landfill disposal costs.</td>
</tr>
<tr>
<td>Avoided Landfill Externalities (Non-Greenhouse Gases)</td>
<td>Avoided externality costs from the redirection to the anaerobic digester of food waster that would otherwise be disposed in landfill.</td>
<td>Approximately 48,190 tonnes per annum of landfill diversion to the digester, valued at $1.70 per tonne of external costs.</td>
</tr>
<tr>
<td>Reduction in Unemployment</td>
<td>Reduced costs to the Federal Government of unemployment benefits to workers who will be employed at SRAIP.</td>
<td>Assumes 10% of net additional operational workers are currently unemployed and receiving Newstart allowance (valued at $14,534 per year).</td>
</tr>
<tr>
<td>Reduced Travel Time for Repatriated Workers</td>
<td>Reduced travel time costs for workers who current live in the Scenic Rim but have to travel outside of the region for work due to a lack of local opportunities.</td>
<td>Assumes 10% of workers currently travel to Ipswich for employment. Saves 460 trips per worker per year involving of 40 minute travel time (each direction). Valued at $7.25 per person per hour timing savings (applying “rule of half”).</td>
</tr>
</tbody>
</table>

Preliminary valuation of these benefits indicate that the project will between $545.3m under a 3% discount rate to $229.5m at a 10% discount rate over the 20 year assessment period. This represents the net benefits of the project, discounting existing productive capacity of Kalfresh.
Table 12 Present Value of Benefit Categories ($ million), by Discount Rate, 2020 to 2040, Scenic Rim Agricultural Industrial Precinct

<table>
<thead>
<tr>
<th>Benefit Category</th>
<th>3%</th>
<th>7%</th>
<th>10%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Financial</td>
<td>$162.9</td>
<td>$101.6</td>
<td>$73.3</td>
</tr>
<tr>
<td>Economic</td>
<td>$290.4</td>
<td>$166.3</td>
<td>$112.4</td>
</tr>
<tr>
<td>Environmental</td>
<td>$84.4</td>
<td>$54.5</td>
<td>$40.4</td>
</tr>
<tr>
<td>Social</td>
<td>$7.6</td>
<td>$4.7</td>
<td>$3.4</td>
</tr>
<tr>
<td><strong>Total Benefits</strong></td>
<td><strong>$545.3</strong></td>
<td><strong>$327.1</strong></td>
<td><strong>$229.5</strong></td>
</tr>
</tbody>
</table>

The largest contributor to these benefits is Economic, accounting for between 45-55% of the present value of benefits depending on the discount rate.

Specifically, induced industrial production from non-Kalfresh accounts for the largest share of nominal benefits, along with net additional production for Kalfresh operations specifically.

Figure 27 Nominal Present Value of Benefits, 7% Discount Rate, Scenic Rim Agricultural Industrial Precinct

Overall, RPS considers the present value of benefits at the discount rates of 7% and 10% to be the most relevant due to the economic and commercial nature of the benefits.

5.3 Realising Economic and Social Benefits

Realising these economic and social benefits will require a range of strategies and initiatives to be implemented by Kalfresh in partnership with Local and State Governments. Relevant strategies and initiatives proposed are outlined in the table below.

Table 13 Economic and Social Impact Realisation Strategies

<table>
<thead>
<tr>
<th>Strategies and Initiatives</th>
<th>Description</th>
<th>Implementation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Local Worker Repatriation</td>
<td>SRAIP represents a critical opportunity to provide local employment</td>
<td>Kalfresh will establish a strategy to target agricultural, construction and</td>
</tr>
<tr>
<td>Strategy</td>
<td>opportunities to workers who currently travel from the region for their jobs.</td>
<td>manufacturing workers that currently travel to locations such as Ipswich,</td>
</tr>
<tr>
<td></td>
<td>Providing local employment will provide local workers</td>
<td>Lockyer Valley, Logan and Brisbane for employment. This will</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Strategies and Initiatives</th>
<th>Description</th>
<th>Implementation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Strategies and Initiatives</strong></td>
<td><strong>Description</strong></td>
<td><strong>Implementation</strong></td>
</tr>
<tr>
<td>Strategies and Initiatives</td>
<td>with travel time and cost savings, while also maximising the benefits to the local economy from worker expenditure.</td>
<td>include direct advertising of new positions and roles as well as the establishment of a SRAIP online jobs board. The Repatriation Strategy will be part of the Workforce Development Plan.</td>
</tr>
<tr>
<td>Agriculture Production Promotion Strategy</td>
<td>SRAIP will provide additional food and agricultural manufacturing capacity, within a dedicated, integrated manufacturing capacity. This will present an opportunity for the expansion of agricultural production in the region, while also providing a more sustainable and less volatile source of local demand for agricultural products.</td>
<td>Kalfresh will promote an increase in local agricultural production through an Agricultural Production Promotion Strategy. This strategy will identify current local production supplies across commodities and identify long-term opportunities for further production expansion as well as short-term inter-regional strategies.</td>
</tr>
<tr>
<td>Workforce Development Plan</td>
<td>SRAIP will employ over 450 workers upon completion. These workers will be drawn from a combination of local workers, repatriated and new workers to the region.</td>
<td>Kalfresh will establish a concise Workforce Development Plan. This will identify key skills required for the workforce, identify local skills gaps and establish strategies to address these gaps for Kalfresh and other SRAIP tenant groups, including training and inward migration.</td>
</tr>
<tr>
<td>Regional Agricultural Museum</td>
<td>It is proposed the SRAIP will include a regional Agricultural Museum that celebrates the agricultural and farming history of the region. This will be positioned as a local tourist destination as well as a key tool for protecting the cultural heritage of the region. Additionally, the town of Kalbar has an above average share of Indigenous residents. Integrating and celebrating local Aboriginal history presents a potential opportunity.</td>
<td>Kalfresh will engage with local historical societies and indigenous groups to identify potential exhibits and items for inclusion in the Museum including both European and Aboriginal historical items and exhibits.</td>
</tr>
<tr>
<td>Local Construction Supply Chain Procurement</td>
<td>The construction phase of SRAIP will generate significant local and regional construction employment as well as procurement supply chain opportunities for the local area.</td>
<td>Kalfresh will engage with ICN, DSDMIP and Scenic Rim Regional Council to maximise local procurement during the construction phase, with a focus on ensuring local supply chain utilisation in the construction phase, both directly and through subcontractors.</td>
</tr>
<tr>
<td>Agricultural Manufacturing Investment Attraction</td>
<td>SRAIP will be anchored by Kalfresh operations but will also provide opportunities to accommodate leading food manufacturing and processing tenants from across Australia and the world.</td>
<td>Kalfresh will work with DSDMIP, Scenic Rim Regional Council, TIQ and Austrade to position and promote SRAIP as an agricultural manufacturing destination of choice for inward investment.</td>
</tr>
<tr>
<td>Ongoing Community Engagement Plan</td>
<td>SRAIP has the potential to drive economic activity and growth in wider Boonah and Scenic Rim regions. This will have ongoing impacts on the local community, namely in terms of new employment and economic opportunities.</td>
<td>Kalfresh will establish a plan for ongoing engagement with the community, particularly residents and businesses in Boonah, Kalbar and Aratula. This plan will outline the methods by which the community can engage with Kalfresh and SRAIP representatives on an ongoing basis, as well as any regular engagement activities and events.</td>
</tr>
</tbody>
</table>
6 CONCLUSIONS

The SRAIP has the potential to positively impact the socio-economic environment and structure of the Scenic Rim. It represents an opportunity to catalyse a shift in the Scenic Rim economy to one that is more sustainable, less volatile/seasonal and more dynamic and diverse. This shift will have the benefit of enhancing the attractiveness of the region to younger workers and families, a demographic needed to both address socio-economic and demographic challenges and gaps emerging in the region.

Key employment and economic impact findings and conclusions from the report include:

- **Construction jobs** – 641 direct and 354 indirect local jobs over 10 years;

- **Additional Operational Jobs** – 475 direct and 572 indirect local jobs annually upon full development;

- **Construction Gross Value Added** - $89.5m contribution to the Scenic Rim economy (+5.3%) and $238.9m to the Australian economy over the 10 years construction phase; and

- **Operational Gross Value Added** - $140.5m contribution to the Scenic Rim economy (+8.3%) and $211.9m contribution to the Australian economy annually upon full development.

Key preliminary social impact findings and conclusions from the report include:

- **Workforce Management and Impacts** – more sustainable construction pipeline for construction workers and more diverse and accessible and less seasonal, permanent employment opportunities for local workers in the long-term;

- **Housing and Accommodation** – negligible impact on housing affordability and will likely support house prices in the Boonah region which have been declining or flat over the past 5 years;

- **Local Businesses and Industry Procurement** – opportunities for local businesses across the project life, particularly during the operational phase, by providing local agricultural producers with a reliable local value adding market for output. Also improved local energy security through the proposed investment in an onsite major anaerobic digester;

- **Health and Community Wellbeing and Quality of Life** – project employment will generate increased local household incomes and reduce overall income and economic volatility through greater economic diversification;

- **Regional Amenity** – provide a new and modern industrial environment for workers as well as convenient access to retail and fuel services for workers and visitors;

- **Filling Gaps in the Community** – helping to incentivise local attraction and retention of younger workers and facilities to offset the emerging demographic imbalance in the region;

- **Community Connections and Social Inclusions** – encourages and incentivises increased labour force and economic participation, which worsened in the 5 years to 2016.

- **Support and Protecting Local Heritage and Culture** – the project seeks to progress a local museum offering to promote and support local heritage.

- **Address Social Disadvantage** – provide employment opportunities and diversified economic activity and value added to improve access of households in the region to key Economic Resources and reduce local unemployment.

Analysis of potential benefits of the project identified a range of economic, social, environmental and financial benefits for the project stakeholders, Council, the State Government and local businesses and residents. Overall, the project has the potential to yield present value benefits of between $229.5m and $327.1m over the next 20 years (at 7% and 10% discount rates).
Appendix A
Kalfresh Concept Plan/Layout
Figure 28 SRAIP Concept Layout