









Ipswich City Council

# Ipswich Industrial Land and Employment Needs Analysis

11 July 2021

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# Appendices



# Appendix A MCA Methodology

## A.1 Define the Study Area, Lots & Suburbs

The project Study Area was defined as the extent of "industrial" land within the LGA. Industrial land was identified using the "Ipswich Planning Scheme - Zones, Designations and Notations" accessible on the data.gov.au website by selecting the planning zone names that include "Business and Industry", including:

a. Local Business and Industry, Local Business and Industry Buffer, Local Business and Industry Investigation, Regional Business & Industry - Low Impact,

b. Regional Business & Industry - Medium Impact, Regional Business & Industry (Med Impact SubArea), Regional Business & Industry Buffer, Regional Business & Industry Investigation, Regional Business & Industry (Low Impact Sub Area)

Using the combined spatial extent of these planning zones, the target Lots and Suburbs were identified as those which overlapped the Study Area. The Lot and Suburb boundaries were sourced from the data.gov.au:

- Ipswich Cadastral: https://data.gov.au/dataset/ds-dga-8479db7d-2b57-4505-9542-ebb86d3a576f/details
- QLD Suburb/Locality Boundaries - Geoscape Administrative Boundaries: https://data.gov.au/dataset/ds-dga-6bedcb55-1b1f-457b-b092-58e88952e9f0/details?q=qld-suburb-locality-boundaries-psma-administrative-boundaries

## A.2 Prepare the Issues Register

The Issues Register is an excel file that identifies the overarching Constraint themes (e.g., Infrastructure, Heritage, Environment, etc.) and individual issues used to assess each Constraint theme (e.g., Access to Gas, Slope, etc.). The Issues Register was used to identify individual data sources that spatially represent each constraint (e.g., Infrastructure / Access to Gas is spatially represented by the spatial mapping in the Ipswich Planning Scheme Overlay - OV11 High Pressure Pipelines).

For each of the data sources we identified a data relationship between the data source and the classification of minimal/moderate/high constraints. These spatial data classifications required pre-processing to prepare the spatial data, which entailed: buffering, filtering, and/or spatial intersecting. For example, Access to Gas is processed using a "filter" and a "buffer", whereby minimally constrained areas that are those that are within 200m (buffer) of a high-pressure pipeline which is coded as 'HPGP' (filter) within the "OV11 High Pressure Pipelines" dataset)

## A.3 Process each of the Constraints

The data sources were processed using a scripted method that iterates through each individual data source to:

1. load the raw datasets into a centralised geodatabase.
2. iterate through the issues register to process each issue data source (i.e. filter/buffer/intersect) to produce a spatial constraints layer for each issue within the Study Area.
3. export the constraint layers to separate raster layers, using a 100m grid cells where each grid cell is assigned the highest score from all of the input data for that Constraint (e.g. Minimally constrained = 1, Moderately constrained = 2, Highly Constrained = 3. Therefore, if a Constraint has multiple source layers in the same area, then each raster grid cell is assigned the highest constraint score).

## A.4 Assign weights to the Constraint Layers

Each of the processed layers contained Constraint scores of 1, 2, or 3 (Minimally constrained = 1, Moderately constrained = 2, Highly Constrained = 3). However, the project identified that some of the Constraints were more significant than others. In response, the Constraints were assigned weights.

The weights were generated to ensure that the sum of the weights equalled 100. This was done to assist with normalising the total result scores, so they represent a percentage.

The key Constraints that were assigned higher weights included:

i. Slope, flooding and undermining = 7

ii. Road access, water and wastewater = 8

The key Constraints account for 45 out of the potential 100 weighting score, meaning the weights for the remaining 12 Constraints were calculated as an equal portion the remaining weights (i.e., 55/12, equalling ~4.583 each).

The weights were used to multiple the initial constraint scores. The resulting weighted layers were then combined into a Result layer by adding each of the weighted Constraint layers together. The highest un-weighted constraint score is 3, meaning that the highest theoretical weighted score for the result layer is 300. To simplify the presentation of the results, the result layer was divided by 3 to normalise the results to scores between 0 and 100.

The outcome of the assessment is a thematic 'traffic light map' highlighting the most developable land within each defined industrial area by suburb.

## A.5 Identify Vacant Land

A "Vacant land" dataset was created to assist with identifying the unconstrained land that is available for future development. The identification of undeveloped or vacant land can traditionally be a time-consuming manual process. However, modern day access to machine learning techniques and publicly available multi-spectral satellite imagery provides the ability to automatically identify landcover across large areas with drastically improved efficiency.

The process we have undertaken included the use of a supervised classification method that trains a machine learning (ranger) model to identify different land cover types according to the spectral signatures recorded across multiple bands of satellite imagery.

This approach entailed:

1. Selecting and download a cloudless image from copernicus (https://scihub.copernicus.eu).
    a. A 20m Sentinel-2B INS-NOBS satellite image was selected from 1 September 2020 due to its relatively good quality and low cloud cover (data uri: S2B MSIL2A 20200901T000249 N0214 R030 T56JMQ 20200901T020118.SAFE)
2. Visually inspecting the image to determine some suitable land cover classes for developing a classification matrix for land cover.
3. Recording various point coordinates across different areas within the image, and classifying each of the points as one of the following classes:
    a. water, road, building, creek, crop, vegetation, developed
4. The model was then trained using the point dataset.
5. The trained model was run across the whole Study Area to review the preliminary. On inspection we refined the classes to improve the classification by using the following classes:

a. water, vacant, road, building, creek, crop, vegetation, developed - small, river, developed - large, bare ground

6. After improving the training dataset, the model was re-run to generate a more suitable classification layer.

7. The final model results generated multiple land classes, but on inspection it was identified that the “vacant land” was represented by areas that had been classified as either: crop, vacant, or vegetation.

## A.6 Assign Results to Lot in the Study Area

This stage of the analysis entailed adding all the results onto the Lots within the Study Area to allow for the data to be summarised and interrogated using any of the classification results.

The un-weighted constraint layers and the weighted result layer were spatially intersected with the Lots within the Study Area to generate the Lot result dataset. The lots were then joined with the Development Approval information from Council, using the LOTPLAN id as the reference value between the two datasets.

The Lots were then intercepted with the Vacant land layer to identify the portion of the Lot that might be vacant. The portion vacant was calculated as the number of vacant raster cells within a Lot divide by the total number of 20m image cells within the lot. The Lots were then defined as “Vacant” when the vacant land model identified at least 70% of the Lot as being vacant.

In addition to the Vacant land classification, we identified ”infill opportunities” as lots where the vacant land model identified the undeveloped area of developed sites with areas greater than 5000m$^2$ and with existing road access.

## A.6.1 Assessment Criteria – Sieve 1

| Issue | | ENVIRONMENT | | PLANNING | | | | HAZARD | | | | | | | INFRASTRUCTURE | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | **Habitat** | **Vegetation** | **Heritage** | **Buffer to Sensitive Uses** | **Fragmentation / Parcel size** | **Tenure** | **Mining / Undermining** | **Slope** | **Major Waterways** | **Flood** | **Heritage** | **Bushfire Hazard** | **Airport / RAAF Base Hazard** | **Road Access** | **Rail Access** | **Power Access** | **Water Access** | **Wastewater / Sewer Access** | **Gas Access** |
| **Objectives** | | Loss or degradation of essential habitat for rare, vulnerable and endangered species is minimised | Avoid loss or degradation of significant vegetation that requires approval for "clearing" and provision of vegetation offsets | Preserve listed heritage sites | Minimise amenity impacts from residential areas, community use areas and primary roads | Considering matters such as land assembly for future development | Excludes reserved land, easements and (any separation distance requirements) Major infrastructure corridors (easements) are considered highly constrained (HV power, gas) and may also require separation distances. | Ensures mining and exploration activities are not impacted on Avoids areas of know mineral or extractive resource Considers Planning Scheme Mining Influence Areas Overlay areas Considers Planning Scheme KRA, Buffers and Haul Routes Overlay areas[1] | Minimise development cost and earthworks Risk of erosion and slope stability issues can be minimised Ensure the site is accessible and serviceable Consideration of Planning Scheme Overlay | Impacts on waterways are minimized. | Avoid extensive areas that are subject to flooding | Preserve listed heritage sites | Consider Planning Scheme Bushfire Risk Area Overlay | Consideration of planning constraints surrounding the RAAF Amberley Base | Access to site is possible via designated heavy vehicle routes / primary road. | Access to site is possible via existing or proposed freight rail network | Access to site is possible via trunk infrastructure network Land within the LGIP will be minimally constrained and distance to trunk infrastructure services with capacity or ability to be augmented (water or sewer trunk main, existing, or proposed) will determine if highly or moderately constrained. These criteria will need to be reviewed by Council engineers, and sanity checked with actual sites. | Access to site is possible via trunk infrastructure network Land within the LGIP will be minimally constrained and distance to trunk infrastructure services with capacity or ability to be augmented (water or sewer trunk main, existing, or proposed) will determine if highly or moderately constrained. These criteria will need to be reviewed by Council engineers, and sanity checked with actual sites. | | |
| **Measures** | | Avoid Habitats classified under the Nature Conservation Act 1993 and Environmental Protection and Biodiversity Conservation Act 1999 Koala habitat values mapping applicable under the Planning Act 2016, (and previously applied to the South East Queensland Koala Conservation State Planning Regulatory Provisions [Koala SPRP]). | Regional Ecosystems: Endangered Of concern ecosystems, Not of concern ecosystems Note that ground truthing is required for this dataset | Listed on Queensland Heritage Register or Register of the National Estate | Distance to sensitive uses | Fragmentation of developable areas and number of owners. If a single owner owns several lots, the site is not considered as fragmented as if there were multiple owners. | Avoidance of reserve land and easements | Avoidance of designated mineral or extractive resources. | Avoid land with excessive slopes | Distance from water bodies and water ways | Extent of flooding | Listed on Queensland Heritage Register or Register of the National Estate | Extent of bushfire hazard areas | Extent of restricted areas | National Highway State Strategic Road Regional Road District Road | Distance from existing or proposed rail network (Inland Rail) | Distance from existing or proposed infrastructure network | Distance from existing or proposed infrastructure network | Distance from existing or proposed infrastructure network | Distance from existing or proposed infrastructure network |
| **Data Source** | | Essential Habitat for Endangered, Rare and Vulnerable Species Version Koala Conservation areas; Biodiversity Planning Assessment Version | SEQ Remnant vegetation communities and regional ecosystems 2001 including Certified Amendments to October 2007. | Queensland Heritage Register Register of the National Estate | DCDB / Planning Scheme zoning | Tenure (freehold/crown land) | DCDB | Dept Mines and Energy/ Mining tenure from NRM Planning Scheme overlay | Topographical contours - provided by Council | Waterways | Planning Scheme Adopted Flood Regulation Line, Indicative Flood, Urban Catchment Flow Path | Queensland Heritage Register Register of the National Estate | Planning Scheme Bushfire Risk Area Overlay | Planning Scheme Defense (Area Control) Regulations /Obstruction Overlay and Operational Airspace Overlay | DTMR | QT | State mapping for pipelines and transmission lines. | State mapping / LGIP | State mapping | State mapping for pipelines and transmission lines. |
| **Suitability** | | | | | | | | | | | | | | | | | | | | |
| ***Highly Constrained*** *long-term potential availability* | **Poor = 3** | Presence of essential habitat. OR Koala Conservation Area (40) | Endangered or Conservation Areas Planning Scheme Strategic Connection and Biodiversity (40) | Listed item on the Queensland Heritage Register or Register of the National Estate Within 100m of listed item (40) | <500m of Residential, character housing, township or community use zone (40) | Private Ownership and land parcel size less than 5 ha (40) | Easement Reserve High Pressure Pipelines High Voltage Electricity Transmission Lines (40) | Within Planning Scheme Surface Disturbance – Including Open Cut Mining area (40) | Slope between 7% and 15% (40) | Water ways within 100m (100m buffer to Major) (40) | Planning Scheme 1 in 20 Development Line (refer to high risk mapping for 1 in 20 equivalent) (40) | Listed item on the Queensland Heritage Register or Register of the National Estate Within 100m of listed item (40) | none | Planning Scheme Building Height Restriction Area 7.5m (40) | >1km from highway interchange, freight corridor or future transport corridor (or future interchange / upgrades) (40) | >10km from existing or planned rail access (40) | >500m from trunk service connection (40) | >500m from trunk service connection (40) | >500m from trunk service connection (40) | >500m from trunk service connection (40) |
| ***Moderately Constrained*** *mid-term potential availability* | **Moderate = 2** | Koala Sustainability Area, Urban Koala Area OR BPA State Wildlife Corridor (20) | Of Concern Regional Ecosystem Protected Plants Flora Survey Trigger Area MSES Regulated Vegetation (Category B/C) (20) | none | 500m to 1000m Residential, character housing, township or community use zone, motor sport precinct (20) | Private Ownership and land parcel size between 5 – 10ha (20) | High Pressure Pipelines Buffer <50m from High Voltage Electricity Transmission Lines (20) | Within a Key Resource Area (KRA)/ separation area Exploration Permit Mining claim /lease Petroleum lease Pipeline /Mineral development license Planning Scheme Known Resources area Planning Scheme Mining Influence Constrained Areas, Area Affected by Underground Mining (20) | Slope between 3% and 7% (20) | none | Planning Scheme Adopted Flood Regulation Line, Indicative Flood, Urban Catchment Flow Path (refer to moderate flood risk mapping) (20) | none | Affected by Planning Scheme Bushfire Risk Area Overlay (20) | Planning Scheme Building Height Restriction Area 15m or Extraneous Lighting Restriction Area 6km (20) | 200m – 1000m from highway interchange, freight corridor or future transport corridor (20) | 5 – 10km from existing or planned rail access (20) | 200- 500m from trunk service connection (20) | 200- 500m from trunk service connection (20) | 200- 500m from trunk service connection (20) | 200- 500m from trunk service connection (20) |
| ***Minimally Constrained*** *short-term potential availability* | **Good = 1** | No essential habitat present. AND No Koala Habitat (10) | Least Concern Regional Ecosystem Non-remnant / Regrowth High Value Regrowth Area not categorised (10) | All else (10) | More than 1000m from Residential, character housing, township or community use zone (10) | Parcel size >10ha or Government ownership (10) | No affected by Easement or Reserve (10) | Not within a mineral or extractive resource area (10) | Slope less than 3% (10) | Outside 100m permanent water (10) | none | All else (10) | none | all other (10) | 0 – 200m from highway interchange or freight corridor (10) | <5km from existing or planned rail access (10) | <200m from trunk service connection (10) | <200m from trunk service connection (10) | <200m from trunk service connection (10) | <200m from trunk service connection (10) |
| | **Weighting** | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 7 | 7 | 4.6 | 7 | 4.6 | 4.6 | 4.6 | 8 | 4.6 | 4.6 | 8 | 8 | 4.6 |

[1] Some industrial uses may be permitted over land previously used for mining activities and can manage, mitigate or re-purpose associated constraints. As a result, most mining related criteria are not considered fatal flaws to industrial development. Impacts of undermining in particular should also be assessed on a site-by site basis.

## A.6.2 Sieve 2 Assessment Criteria

| Infrastructure | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Issue** | **Emergency Services** | **Road Infrastructure connection** | **Quality of Transport Routes** | **Road Network Capacity** | **Waste Services** | **Proximity to Reticulated Water** | **Water Infrastructure Programming** | **Wastewater Infrastructure Programming** |
| **Objectives** | Site has access to emergency services | Ability to access services and infrastructure required for industrial development.<br><br>Costing of infrastructure in recognition of specific site constraints can vary the feasibility of a development. | A high-quality network of roads is available to service the estate and provide linkages to synergistic activities and markets | Availability or timing of interchanges to meet capacity requirements | Access to waste disposal facilities | Estate will need to be serviced with reticulated water potable and or recycled water. Ability to connect to existing municipal systems would reduce cost and lead times | Timing of planned water infrastructure upgrades to provide service capacity | Timing of planned wastewater infrastructure upgrades to provide service capacity |
| **Measures** | Travel time from nearest emergency service depot | Distance to interchange/ access | Number of access opportunities and standard for roads | Availability of access opportunities and capacity of roads | Distance from facility | Distance from reticulated water and sewerage networks | LGIP timeframes | LGIP timeframes |
| **Data Source** | Dept Emergency Services | DTMR | DTMR | DTMR / Council | Council mapping | DLGSR | Utility agencies<br>LGIP | LGIP |
| **Suitability** | *Suitability /Constraint* | *Suitability /Constraint* | *Suitability /Constraint* | *Suitability /Constraint* | *Suitability /Constraint* | *Suitability /Constraint* | *Suitability /Constraint* | *Suitability /Constraint* |
| ***Highly Constrained***<br>*long-term potential availability* | Over 30 minutes travel time | Greater distance to either the interchange of future highway or existing road network | No road access | No programmed upgrades to meet capacity requirements or planned beyond 10 years | Greater than 10 kms | Greater than 10km from reticulated water supply. | No planned upgrades | No planned upgrades |
| ***Moderately Constrained***<br>*mid-term potential availability* | 15- 30 minutes travel time | Close to either an access point of the existing road networks OR<br>the future highway interchange | Only one access road to /from area | Programmed upgrades to meet capacity requirements in 5-10 years | 5-10 kms | 5-10 kms from reticulated water supply | 5-10 year programmed upgrades | 5-10 year programmed upgrades |
| ***Minimally Constrained***<br>*short-term potential availability* | Less than 15 minutes | Proximity to interchange of future highway relocation and access point from existing road network | More than 1 road | Existing road network capacity or planned upgrades in 0-5years | Less than 10 kms | Less than 5 km from reticulated water supply | 0-5 year programmed upgrades | 0-5 year programmed upgrades |

| Social and planning considerations | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Issue** | | **Population Growth/ Community Building** | **Local Workforce Characteristics** | **Amenity** | **Existing Development Approvals** | **Draft LAF mapping zoning** | **Industry Buffer Areas** | **Buffer to Sensitive Uses** |
| **Objectives** | | Employment opportunities align with areas of growing workforce and contribute to community building | Local workforce characteristics align with future employment opportunities | Consideration of the number and density of sensitive receptors, visual amenity from the highway and other prominent vantage points, ability to provide/ utilise existing vegetation for screening/ defining development areas etc. | Development Approvals (DA) demonstrate the intent of future land use | Consideration of Draft LAF mapping zoning and future planning particularly where previously zoned areas are removed | The Local Business and Industry Buffer and the Regional Business and Industry Buffer areas to be separately considered to the Industrial Zones Layer.<br><br>The LAF mapping generally includes these areas as Environmental Management and some of these areas have been expanded to reflect constraints. | Areas, that are identified as highly constrained but mapped for Low Impact Industry or Business Park in the LAF mapping Buffer to Sensitive Uses Layer to consider intensity of industrial use |
| **Measures** | | population growth | workforce characteristics | location of sensitive uses | Evidence of Development Approvals | Draft zoning plan | Draft zoning plan | Draft zoning plan |
| **Data Source** | | Statistical Area data | Statistical Area data | Aerial imagery | Council DA database | Draft planning scheme | Draft planning scheme | Draft planning scheme |
| **Suitability** | **Opportunity** | *Opportunity* | *Opportunity* | *Suitability /Constraint* | *Suitability /Constraint* | *Opportunity* | *Opportunity* | *Opportunity* |
| ***Highly Constrained***<br>*long-term potential availability* | ***Minimal***<br>*long-term potential availability* | In low population growth SA | In low population growth SA | Located adjacent to residential or community uses | Development approvals for conflicting or sensitive uses | Not zoned for industry | Environmental Management zone | Sensitive uses <500m from High impact Industry LAF mapping |
| ***Moderately Constrained***<br>*mid-term potential availability* | ***Moderate***<br>*mid-term potential availability* | Adjacent or within 5kms area of high population SA | Adjacent or within a SA where workforce characteristics (employee type, education, participation rates etc.) align with a target industry sector. | Potential to provide/ utilise existing vegetation for screening from residential or community uses / highway | Development approvals for industrial development | - | Local Business and Industry Buffer and the Regional Business and Industry Buffer areas | Sensitive uses <500m from Medium impact Industry LAF mapping |
| ***Minimally Constrained***<br>*short-term potential availability* | ***High***<br>*short-term potential availability* | Within emerging community and high population SA | Within SA where workforce characteristics (employee type, education, participation rates etc.) align with a target industry sector | Naturally buffered by terrain/ vegetation / not in a prominent location | No current development approvals | Zoned for industry | - | Sensitive uses <500m from non-industrial use, Low Impact Industry or Business Park LAF mapping |

| Commercial | | | | |
|---|---|---|---|---|
| **Issue** | | **Site Development Costs** | **Local Synergies** | **Ownership** |
| **Objectives** | | Addresses whether the site is capable of being presented to the market at a reasonable cost based on earthworks, infrastructure and what the industry is likely prepared to pay. | Alignment of areas with infrastructure, locational and other requirements of target industries.<br>Potential for synergies with existing on-site or nearby activities can improve utilisation of resources and assets, competitiveness, reduces costs, increases revenue, business diversification and supply chain risk management, for greater resilience. | Fewer land holders/ government land ownership aids in acquisition if required. |
| **Measures** | | Avoid areas with high development costs | Existing land uses and land use designations | Land ownership/number of owners |
| **Data Source** | | Developable area, site conditions | Site assessment, aerial imagery | Council database |
| **Suitability** | **Opportunity** | *Suitability /Constraint* | *Opportunity* | *Suitability /Constraint* |
| ***Highly Constrained*** *long-term potential availability* | ***Minimal*** *long-term potential availability* | Not readily accessible to water / sewer and has high proportion of land steeper than 10% | No existing industry within 5 kms | Multiple holdings with average holding size <10ha |
| ***Moderately Constrained*** *mid-term potential availability* | ***Moderate*** *mid-term potential availability* | Readily accessible to water / sewer but has high proportion of land steeper than 10%<br>OR<br>Not readily accessible to water/ sewer but has high proport on land below 10% | Located within 5km of existing industrial development or infrastructure | Average land holding size >10ha |
| ***Minimally Constrained*** *short-term potential availability* | ***High*** *short-term potential availability* | Readily accessible to water and sewerage connections, has highest proportion of land below 10% to reduce earthworks costs | Located within 1km of existing industrial development or infrastructure | Single land holding |

| Environmental | | | | |
|---|---|---|---|---|
| **Issue** | **Geology/ Undermining** | **Contaminated Land** | **Drainage** | **Ability to Provide Access Flood Immunity** |
| **Objectives** | Avoid areas of unstable /unsuitable geology or in area with high water tables. | Consider areas of high contamination as more difficult to develop due to remediation costs and timing | Avoid extensive areas that are subject to flooding. | Development areas must be able to be accessed during major flood events. |
| **Measures** | Areas of unstable /unsuitable geology or in area with high water tables | Areas of contamination | Flood mapping, permanent rivers, and streams | Flood mapping, permanent rivers, and streams |
| **Data Source** | Planning scheme mapping, mine disturbance mapping | Contaminated Land Register | Planning Scheme Flood mapping | Planning Scheme Flood mapping |
| **Ratings** | *Suitability /Constraint* | *Suitability /Constraint* | *Suitability /Constraint* | *Suitability /Constraint* |
| ***Highly Constrained*** *long-term potential availability* | Extensive areas of potentially unstable / difficult geology due to undermining | none | High flood risk areas | none |
| ***Moderately Constrained*** *mid-term potential availability* | Likely areas of potentially unstable / difficult geology due to undermining | Identified on the contaminated land register - significant contamination | Moderate flood risk areas | Areas vulnerable to isolation during a major flood event. |
| ***Minimally Constrained*** *short-term potential availability* | Areas free of geological/ undermining constraint | No contamination | Flood risk areas | Areas capable of being accessed during major flood events. |

# Appendix B Sieve 2 Assessment Outputs

### B.1.1 Environmental Characteristics

| Location / Area | Geology/ Undermining | Contaminated Land | Drainage | Suitability rating |
|---|---|---|---|---|
| | Avoid areas of unstable /unsuitable geology or in area with high water tables. | Consider areas of high contamination as more difficult to develop due to remediation costs and timing | Avoid extensive areas that are subject to flooding. | |
| **Amberley**<br>(127.43 ha west of RAAF Base fronting Haigslea – Amberley Rd, Rosewood Rd and south of the void fronting Mount Elton Mine Rd. Part of the Ebenezer industrial area).<br>Comprises 25.56ha zoned RBIB (Buffer) adjacent the Bremer River and 101.87ha zoned RBII (Investigation). | All but the cluster of lots potentially south of the RAAF Security and Fire School affected by underground mining, around 10ha.<br>***(High-Moderate constraint)*** | Previous and existing uses over the area including aerospace industry indicate that this land is subject to potential contamination.<br>***(Moderate constraint)*** | One lot fronting the Bremer River is affected by the adopted flood regulation line<br>Access via the Cunningham Highway is relatively flood free.<br>***(Minimal constraint)*** | **Moderate constraint** |
| **Jeebropilly**<br>(597.15 ha around the former Jeebropilly open cut mine site). Comprises 283.92ha zoned RBIB adjacent to the Bremer River and 313.23ha RBII. | While the mapping excludes all voids and area of major disturbance, all areas are affected by potential mining constraints, the extent of severity of which is unknown.<br>***(High-Moderate constraint)*** | Previous and existing industrial uses over the area indicate that this land is subject to potential contamination.<br>***(Moderate constraint)*** | Approximately 345ha of the site is affected by the adopted flood regulation line. Access is restricted via Ipswich Rosewood Road during a flood event.<br>***(Moderate - Minimal constraint)*** | **Moderate constraint** |
| **Ebenezer**<br>(313.38ha of land mainly to the west and south of the Ebenezer open cut mining area. Area excludes the void and adjacent areas of unconsolidated fill to the west).<br>Comprises 37.23ha zoned RBIB adjacent the Bremer River and along the western edge of the proposed industrial area and 276.16 ha zoned RBII. | While the mapping excludes all voids and area of major disturbance, all areas are affected by potential mining constraints, the extent of severity of which is unknown. The fill in this area is expected to be uncompacted and potentially contaminated.<br>***(High-Moderate constraint)*** | Previous and existing industrial uses and potential undermining over the area indicate that this land is subject to potential contamination.<br>***(Moderate constraint)*** | All but approximately 5ha of the mapped vacant land falls below the adopted flood regulation line along the Bremer River.<br>***(High constraint)*** | **Moderate constraint** |
| **Mount Forbes**<br>(251.24 ha largely comprising several large parcels north of Goebels Road).<br>Comprises 20.08ha zoned RBIB along the southern edge of the proposed industrial area and 231.15ha zone RBII. | The area is affected by potential mining constraints, the extent of severity of which is unknown.<br>***(High-Moderate constraint)*** | Previous and existing industrial uses and potential undermining over the area indicate that this land is subject to potential contamination.<br>***(Moderate constraint)*** | A minor watercourse runs through the area although the area is not affected by flooding. Access via the Cunningham Highway is relatively flood free.<br>***(Minimal constraint)*** | **Moderate constraint** |
| **Willowbank**<br>(725 ha largely to the north, east and south of the former Ebenezer open cut mine).<br>Comprises 82.26ha zone RBIB adjacent the Cunningham Highway and Coopers Road and 642.8ha zone RBII. | While the mapping excludes all voids and area of major disturbance, all areas are affected by potential mining constraints, the extent of severity of which is unknown.<br>***(High-Moderate constraint)*** | No previous or existing industrial uses over the area indicate that this land is not subject to potential contamination<br>***(Minimal constraint)*** | The area is flood free. Access via the Cunningham Highway is relatively flood free.<br>***(Minimal constraint)*** | **Minimal – Moderate constraint** |
| **Mutdapilly**<br>(266.52ha EDQ site).<br>Comprises 15.1ha zoned RBIB adjacent to the highway and 251.42ha zone RBII. | While the mapping excludes all voids and area of major disturbance, all areas are affected by potential mining constraints, the extent of severity of which is unknown.<br>***(High-Moderate constraint)*** | No significant previous or existing industrial uses over the area indicate that this land is not subject to potential contamination<br>***(Minimal constraint)*** | The area is flood free. Access via the Cunningham Highway is relatively flood free.<br>***(Minimal constraint)*** | **Minimal – Moderate constraint** |
| **Swanbank**<br>(397.8h within the Swanbank Enterprise Park)<br>Comprises 132.03ha RBI Medium Impact, 94.28ha RBI (Medium Impact Sub Area), 14.8ha RBI Low Impact Sub Area),20.23ha RBII and 136.46ha RBI Buffer around the edges of the industrial area and along major drainage and infrastructure corridors | The area is affected by significant potential mining and undermining constraints (approximately 1600ha, or 80% of the site), the exact extent and severity of which is unknown.<br>***(High constraint)*** | Previous and existing uses over the area indicate that this land is subject to potential contamination. Most significantly, the ash fields associated with the Swanbank Power Station.<br>Further investigation is required by assessment of the contaminated land register for more detailed results.<br>***(High constraint)*** | The area is largely free from major flood events although some low-lying areas along Bundamba Creek are below the adopted flood regulation line.<br>Several large water bodies/ dams associated with existing uses are located at the southern part of the site surrounding the Swanbank Power Station.<br>Some flooding is mapped around the rail loop associated with Bundamba Creek on the eastern boarder of the site, north of Swanbank Road.<br>The site remains accessible in a flood event.<br>***(Minimal constraint)*** | **High-Moderate constraint** |
| **Wulkaraka**<br>(39.9ha comprising infill and expansion area west of the existing industrial area).<br>Comprises 3.44ha zoned RBI Low Impact, 26.78ha zoned and 9.7ha zoned RBI Buffer. | All areas are unaffected by potential mining constraints.<br>***(Minimal constraint)*** | Previous and existing uses over the area indicate that this land is unlikely to be subject to potential contamination.<br>***(Minimal constraint)*** | Area slopes gently towards the Bremer River. The rear of lots fronting the Bremer River fall below the adopted flood regulation line affecting about 5ha of the mapped area.<br>Access to Ipswich CBD is via Rosewood Road and Old Toowoomba Road, the latter being subject to moderate flood constraint.<br>***(Moderate constraint)*** | **Minimal – Moderate constraint** |

| Location / Area | Geology/ Undermining | Contaminated Land | Drainage | Suitability rating |
|---|---|---|---|---|
| | Avoid areas of unstable /unsuitable geology or in area with high water tables. | Consider areas of high contamination as more difficult to develop due to remediation costs and timing | Avoid extensive areas that are subject to flooding. | |
| **Karrabin**<br>(83.3ha between the Karrabin Rosewood Road and the Bremer River). Comprises 2.99ha zoned LBII, 22.23ha zoned RBI Medium Impact, 21.65ha RBI Buffer and 36.41ha zoned RBII. | All areas are unaffected by potential mining constraints.<br>***(Minimal constraint)*** | Previous and existing uses over the area indicate that this land is unlikely to be subject to potential contamination.<br>***(Minimal constraint)*** | Area slopes gently towards the Bremer River. Low lying areas south of the railway along the Bremer River below the adopted flood line.<br>Access to Ipswich CBD is via Rosewood Road and Old Toowoomba Road, the latter being subject to moderate flood constraint.<br>***(Moderate constraint)*** | **Minimal – Moderate constraint** |
| **Tivoli**<br>(18.9ha south of Mt Crosby Road east of the Musketeers Sports Club and includes 0.98 ha fronting Holdsworth Road). Comprises 3.74ha zoned LBI Buffer, and 15.12ha zoned LBII. | Approximately 60% of the area is affected potential mining constraints, the extent of severity of which is unknown.<br>***(High-Moderate constraint)*** | Previous and existing uses over the area indicate that this land is unlikely to be subject to potential contamination.<br>***(Minimal constraint)*** | Area slopes gently to Bremer River. Approximately 15ha (79%) falls below the adopted flood regulation line.<br>Flood free access is available from Mt Crosby Road.<br>***(Moderate constraint)*** | **Moderate constraint** |
| **Bundamba**<br>(124.6 Ha within the Citiswich industrial area). Comprises 0.88ha zoned LBI, 65.09ha zoned RBI Low Impact, 24.09ha RBI Medium Impact and 34.53ha zoned RBI Buffer. | Potential mining constraints on some lots backing onto rail corridor. Otherwise, no geological constraints.<br>***(Moderate – Minimal constraint)*** | Previous and existing industrial uses over the area indicate that this land is subject to potential contamination.<br>***(Moderate constraint)*** | Gently sloping with only areas in the north western corner (north of the substation) below the adopted flood regulation line. Considerable development has already occurred below this adopted flood level.<br>***(Moderate – Minimal constraint)*** | **Minimal – Moderate constraint** |
| **Riverview**<br>(63.3ha north of the Warrego Highway and west of the JBS Abattoir)<br>Comprises 12.57ha zoned RBI Low Impact, 15.65ha RBI Medium Impact and 31.49ha zoned RBI Buffer along the Bremer River and west of the JBS abattoir. | Majority of area is unaffected by potential mining constraints.<br>***(Minimal constraint)*** | Previous and existing uses over the area indicate that this land is unlikely to be subject to potential contamination.<br>***(Minimal constraint)*** | All apart from around 3 ha of RBI Medium Impact land falls below the adopted flood regulation line.<br>***(Moderate constraint)*** | **Minimal – Moderate constraint** |
| **Yamanto**<br>(46.4ha west of and fronting Warwick Road and smaller areas along Berry Street).<br>Comprises 45.32ha zoned LBI, and 1.06ha zoned LBI Buffer. | Not affected by mining constraint. No known geological constraint.<br>***(Minimal constraint)*** | Previous and existing uses over the area indicate that this land is unlikely to be subject to potential contamination.<br>***(Minimal constraint)*** | Undulating area dissected by minor water courses traversing the area north – south. Slopes along water courses and much of the area south of Saleyards Road range between 3-7%.<br>The area is above the adopted flood regulation line and flood free access is available via the nearby Cunningham Highway and Warwick Road interchange.<br>***(Minimal constraint)*** | **Minimal constraint** |
| **Flinders View**<br>(17.1 off Briggs Road).<br>Comprises 17.01ha zoned LBI | Not affected by mining constraint. No known geological constraint.<br>***(Minimal constraint)*** | Previous and existing uses over the area indicate that this land is unlikely to be subject to potential contamination.<br>***(Minimal constraint)*** | Gently slopes towards Deebing Creek with slope generally less than 3%. Some steeper areas to 7% in the south close to the creek.<br>Around 3 ha near the creek is below the adopted flood regulation line.<br>***(Moderate constraint)*** | **Minimal – Moderate constraint** |
| **New Chum**<br>71.3 ha north and south of Transpacific). Comprises 70.33ha zoned RBII and 0.93ha zoned RBI (Medium Impact Sub Area) | While the mapping excludes all voids and area of major disturbance, all areas are affected by potential mining constraints, the extent of severity of which is unknown.<br>***(High-Moderate constraint)*** | Previous and existing industrial uses over the area including a waste facility indicate that this land is subject to potential contamination.<br>***(Moderate constraint)*** | All land apart from around 3 ha falls below the adopted flood regulation line.<br>***(High constraint)*** | **High-Moderate constraint** |
| **Redbank**<br>(60 ha infill areas on the Redbank Peninsula).<br>Comprises 13.73ha zoned RBI Low Impact, 36.04ha zoned RBI Medium Impact and 10.22ha zoned RBI Buffer. | Some potential mining constraints for small areas on the western side of the peninsular.<br>***(Minimal - Moderate constraint)*** | Previous and existing industrial uses over the area indicate that this land is subject to potential contamination.<br>***(Moderate constraint)*** | Minor flooding around the eastern riverbank and some vacant land to the east falls below the adopted flood regulation line.<br>***(Minimal constraint)*** | **Minimal – Moderate constraint** |
| **Redbank Plains**<br>(20.8 ha fronting Redbank Plains Road near Swanbank) | Vacant land with access to Eagle Street is not affected by mining constraint. The area fronting Redbank Plans Road (largest area) is potentially affected by undermining.<br>***(Moderate constraint)*** | Previous and existing industrial uses over the area indicate that this land is subject to potential contamination.<br>***(Moderate constraint)*** | Area unaffected by the adopted flood regulation line.<br>***(Minimal constraint)*** | **Minimal – Moderate constraint** |
| **Walloon**<br>(29.81ha between Karrabin Rosewood Road and rail corridor). Comprises 29.1ha zone LBII | Not affected by mining constraint. No known geological constraint.<br>***(Minimal constraint)*** | Previous and existing uses over the area indicate that this land is unlikely to be subject to potential contamination.<br>***(Minimal constraint)*** | Area unaffected by the adopted flood regulation line.<br>***(Minimal constraint)*** | **Minimal constraint** |

### B.1.2 Commercial Considerations

| Location / Area | Site Development Costs | Local Synergies | Ownership | Suitability rating | Opportunity |
|---|---|---|---|---|---|
| | Addresses whether the site is capable of being presented to the market at a reasonable cost based on earthworks, infrastructure and what the industry is likely prepared to pay. | Alignment of areas with infrastructure, locational and other requirements of target industries. | Fewer land holders/ government land ownership aids in acquisition if required. | | |
| **Amberley**<br>(127.43 ha west of RAAF Base fronting Haigslea – Amberley Rd, Rosewood Rd and south of the void fronting Mount Elton Mine Rd. Part of the Ebenezer industrial area).<br>Comprises 25.56ha zoned RBIB (Buffer) adjacent the Bremer River and 101.87ha zoned RBII (Investigation). | The areas are generally gently sloping (<3%) and could be developed with minimal earthworks. However, undermining extent/severity is unknown.<br>Water services are potentially available along the Haigslea Amberley Road - Ipswich Rosewood Road intersection.<br>Electrical services run along both road frontages.<br>No wastewater services are available in the immediate area.<br>***(High-Moderate constraint)*** | Close to RAAF base and potentially well located for aviation or defence supporting activities. Potential for activities that comprise part of a circular economy focused on renewable energy and resource recovery enterprises.<br>***(High opportunity)*** | The low level of fragmentation / large holding sizes would not be a constraint to industrial subdivision.<br>***(Minimal constraint)*** | **Moderate constraint** | **High** |
| **Jeebropilly**<br>(597.15 ha around the former Jeebropilly open cut mine site).<br>Comprises 283.92ha zoned RBIB adjacent to the Bremer River and 313.23ha RBII. | The areas are generally gently sloping (<3%) and could be developed with minimal earthworks, although further assessment of potential mining constraints would be required. However, undermining extent/severity is unknown.<br>There are no reticulated water or wastewater services in the vicinity.<br>No electricity services within 500 metres of areas.<br>Parts of the area fronting Coopers Road in the south may be serviceable from proposed adjoining development.<br>The cost of extending services to this area is likely to be prohibitive in the short term.<br>***(High-Moderate constraint)*** | Area is currently quite remote from any existing industrial synergies.<br>Potential for activities that comprise part of a circular economy focused on renewable energy and resource recovery enterprises.<br>Also potential for uses associated with potential freight, logistics and manufacturing hub proposed as part of the Ebenezer Industrial Area.<br>***(Minimal opportunity)*** | The low level of fragmentation / large holding sizes would not be a constraint to industrial subdivision.<br>***(Minimal constraint)*** | **Moderate constraint** | **Minimal** |
| **Ebenezer**<br>(313.38ha of land mainly to the west and south of the Ebenezer open cut mining area. Area excludes the void and adjacent areas of unconsolidated fill to the west).<br>Comprises 37.23ha zoned RBIB adjacent the Bremer River and along the western edge of the proposed industrial area and 276.16 ha zoned RBII. | The areas are generally gently sloping (<3%) and could be developed with minimal earthworks, although further assessment of potential mining constraints would be required. However, undermining extent/severity is unknown. The fill in this area is expected to be uncompacted and potentially contaminated.<br>There are no reticulated water or wastewater services within 500m of the mapped areas.<br>Power runs in the vicinity of those lots fronting the Bremer River and Ebenezer rail spur.<br>The cost of extending services to this area is likely to be prohibitive in the short term.<br>***(High-Moderate constraint)*** | Area is currently quite remote from any existing industrial areas and lacks existing synergies.<br>However, there is future potential for activities that comprise part of a circular economy focused on renewable energy and resource recovery enterprises.<br>Also potential for future uses associated with potential freight, logistics and manufacturing hub proposed as part of the Ebenezer/Willowbank Industrial Area.<br>***(Moderate opportunity)*** | The low level of fragmentation / large holding sizes would not be a constraint to industrial subdivision.<br>***(Minimal constraint)*** | **Moderate constraint** | **Moderate** |
| **Mount Forbes**<br>(251.24 ha largely comprising several large parcels north of Goebels Road).<br>Comprises 20.08ha zoned RBIB along the southern edge of the proposed industrial area and 231.15ha zone RBII. | The areas are generally gently sloping (<3%) and could be developed with minimal earthworks, although further assessment of potential mining constraints would be required. However, undermining extent/severity is unknown.<br>There are no reticulated water or wastewater services within 500m of the mapped areas.<br>The cost of extending services to this area is likely to be prohibitive in the short term.<br>***(High-Moderate constraint)*** | Area is currently quite remote from any existing industrial synergies.<br>Potential for activities that comprise part of a circular economy focused on renewable energy and resource recovery enterprises.<br>Also potential for uses associated with a future freight, logistics and manufacturing hub proposed as part of the Ebenezer Industrial Area. Potential synergies with future intermodal and Willowbank Industrial area.<br>***(Moderate opportunity)*** | The level of fragmentation suggest holding sizes would not be a constraint to industrial subdivision.<br>***(Minimal constraint)*** | **Moderate constraint** | **Moderate** |
| **Willowbank**<br>(725 ha largely to the north, east and south of the former Ebenezer open cut mine).<br>Comprises 82.26ha zone RBIB adjacent the Cunningham Highway and Coopers Road and 642.8ha zone RBII. | The areas are generally gently sloping (<3%) and could be developed with minimal earthworks, although further assessment of potential mining constraints would be required. However, undermining extent/severity is unknown on land outside of the EDQ Willowbank Industrial area.<br>There are no reticulated water or wastewater services within 500m of the mapped areas. However, an agreement and approval is in place for the servicing and development of the EDQ Willowbank Industrial area. There is an opportunity to leverage the infrastructure planned.<br>***(Moderate constraint)*** | Area is currently quite remote from any existing industrial synergies. Potential for activities that comprise part of a circular economy focused on renewable energy and resource recovery enterprises.<br>Also potential for uses associated with a future freight, logistics and manufacturing hub proposed as part of the Ebenezer Industrial Area.<br>The development of the EDQ Willowbank Industrial area will likely provide catalyst to additional development of the area.<br>***(High opportunity)*** | The low level of fragmentation / large holding sizes would not be a constraint to industrial subdivision.<br>***(Minimal constraint)*** | **Moderate - Minimal constraint** | **High** |
| **Mutdapilly**<br>(266.52ha EDQ site). | The areas are generally gently sloping (<3%) and could be developed with minimal earthworks, although further assessment of potential mining | Area is currently quite remote from any existing industrial synergies. Potential for activities that comprise part of a circular | The low level of fragmentation / large holding sizes would not be a constraint to industrial subdivision.<br>***(Minimal constraint)*** | **Moderate - Minimal constraint** | **High** |

| Location / Area | Site Development Costs | Local Synergies | Ownership | Suitability rating | Opportunity |
|---|---|---|---|---|---|
| | Addresses whether the site is capable of being presented to the market at a reasonable cost based on earthworks, infrastructure and what the industry is likely prepared to pay. | Alignment of areas with infrastructure, locational and other requirements of target industries. | Fewer land holders/ government land ownership aids in acquisition if required. | | |
| Comprises 15.1ha zoned RBIB adjacent to the highway and 251.42ha zone RBII. | constraints would be required. However, undermining extent/severity is unknown on land outside of the EDQ Willowbank Industrial area.<br>There are no reticulated water or wastewater services within 500m of the mapped areas. However, an agreement and approval is in place for the servicing and development of the EDQ Willowbank Industrial area. There is an opportunity to leverage the infrastructure planned.<br>***(Moderate constraint)*** | economy focused on renewable energy and resource recovery enterprises.<br>Also potential for uses associated with a future freight, logistics and manufacturing hub proposed as part of the Ebenezer Industrial Area.<br>The development of the EDQ Willowbank Industrial area will likely provide catalyst to additional development of the area.<br>***(High opportunity)*** | | | |
| **Swanbank**<br>(397.8h within the Swanbank Enterprise Park)<br>Comprises 132.03ha RBI Medium Impact, 94.28ha RBI (Medium Impact Sub Area), 14.8ha RBI Low Impact Sub Area),20.23ha RBII and 136.46ha RBI Buffer around the edges of the industrial area and along major drainage and infrastructure corridors | The area not affected by existing uses (mining, storage pits, dams) is generally gently sloping (<3%) and could be developed with minimal earthworks. However, undermining extent/severity is unknown.<br>Water and electricity services are available throughout the site with significant synergistic opportunity for power intensive uses to locate adjacent to the Swanbank Power Station.<br>Most of the area is moderately constrained by poor wastewater/ sewer connectivity.<br>***(High-Moderate constraint)*** | The area has significant synergistic opportunities for new development. The Swanbank area is an established industrial hub based around the Swanbank Power Station.<br>This area provides opportunity for high impact and medium impact uses, power intensive uses, uses requiring rail access, highway access or significant buffering.<br>Additional locational opportunities include the existing Rail loop, location adjacent to New Chum and associated waste facility and existing and protected buffers providing adequate separation from nearby residential uses.<br>***(High opportunity)*** | The low level of fragmentation / large holding sizes would not be a constraint to industrial subdivision.<br>***(Minimal constraint)*** | **Moderate constraint** | **High** |
| **Wulkuraka**<br>(39.9ha comprising infill and expansion area west of the existing industrial area).<br>Comprises 3.44ha zoned RBI Low Impact, 26.78ha zoned and 9.7ha zoned RBI Buffer. | The area is generally gently sloping (<3%) and could be developed with minimal earthworks.<br>Water and electricity services are potentially available along the Karrabin – Rosewood Road.<br>***(Minimal constraint)*** | The area is part of the Wulkuraka industrial area to the east which has a mix of low to medium impact manufacturing and engineering industries. This area provides the potential for expansion of low to medium impact activities.<br>***(High opportunity)*** | The level of fragmentation suggest holding sizes would not be a constraint to industrial subdivision.<br>***(Minimal constraint)*** | **Minimal constraint** | **High** |
| **Karrabin**<br>(83.3ha between the Karrabin Rosewood Road and the Bremer River).<br>Comprises 2.99ha zoned LBII, 22.23ha zoned RBI Medium Impact, 21.65ha RBI Buffer and 36.41ha zoned RBII. | The area is generally gently sloping (<3%) and could be developed with minimal earthworks.<br>Water and electricity services are potentially available along the Karrabin – Rosewood Road.<br>Only approximately 50ha adjoining the Wulkuraka industrial area is minimally constrained by poor wastewater/ sewer connectivity.<br>***(Minimal constraint)*** | The area adjoins the Wulkuraka industrial area to the east which has a mix of low to medium impact manufacturing and engineering industries. This area provides the potential for expansion of low to medium impact activities<br>***(High opportunity)*** | The level of fragmentation suggest holding sizes would not be a constraint to industrial subdivision.<br>***(Minimal constraint)*** | **Minimal constraint** | **High** |
| **Tivoli**<br>(18.9ha south of Mt Crosby Road east of the Musketeers Sports Club and includes 0.98 ha fronting Holdsworth Road).<br>Comprises 3.74ha zoned LBI Buffer, and 15.12ha zoned LBII. | The area is generally gently sloping (<3%) and could be developed with minimal earthworks. However, undermining extent/severity is unknown.<br>Potential mining constraints affect around 12 ha of the mapped area which may represent ground constraints.<br>***(Moderate constraint)*** | Some synergies with the existing light industrial cluster near the junction of Mount Crosby Road and the Warrego Highway.<br>***(Moderate opportunity)*** | The level of fragmentation suggest holding sizes would not be a constraint to industrial subdivision.<br>***(Minimal constraint)*** | **Moderate - Minimal constraint** | **Moderate** |
| **Bundamba**<br>(124.6 Ha within the Citiswich industrial area).<br>Comprises 0.88ha zoned LBI, 65.09ha zoned RBI Low Impact, 24.09ha RBI Medium Impact and 34.53ha zoned RBI Buffer. | Part of the Citiswich industrial estate so site development costs would be relatively low.<br>***(Minimal constraint)*** | Well established industrial precinct with strong linkages to other Ipswich industrial areas and those in the wider region via the Warrego Highway.<br>***(High opportunity)*** | The level of fragmentation suggest holding sizes would not be a constraint to industrial subdivision.<br>***(Minimal constraint)*** | **Minimal constraint** | **High** |
| **Riverview**<br>(63.3ha north of the Warrego Highway and west of the JBS Abattoir)<br>Comprises 12.57ha zoned RBI Low Impact, 15.65ha RBI Medium Impact and 31.49ha zoned RBI Buffer along the Bremer River and west of the JBS abattoir. | The area is generally gently sloping (<3%) and could be developed with minimal earthworks.<br>There are no reticulated services to the mapped areas although in reasonable proximity to trunk mains.<br>***(Moderate constraint)*** | Located adjacent to Citiswich and a major abattoir which provide potential synergies for related industries. Location has strong linkages to other Ipswich industrial areas and those in the wider region via the Warrego Highway.<br>***(High opportunity)*** | The level of fragmentation suggest holding sizes would not be a constraint to industrial subdivision.<br>***(Minimal constraint)*** | **Moderate - Minimal constraint** | **High** |
| **Yamanto**<br>(46.4ha west of and fronting Warwick Road and smaller areas along Berry Street).<br>Comprises 45.32ha zoned LBI, and 1.06ha zoned LBI Buffer. | The area is quite undulating, particularly the area south of Saleyards Road and along the drainage lines. Depending on the scale of activity earthworks here could be relatively high and smaller lots requiring less benching would be most appropriate. | Potential synergies with existing service industries in Belar and Berry Streets and the nearby Churchill abattoir. Proximity to the Willowbank Raceway appears to have made the area attractive to automotive service industries. Similar synergies may be generated by the proximity of the RAAF Base. | North of Saleyards Road large parcel/ holding sizes suggest no impediment to providing suitable industrial land parcels. South of the road appears to be a historic subdivision for which a recent application has been made to reconfigure 110 lots | **Moderate - Minimal constraint** | **High** |

| Location / Area | Site Development Costs | Local Synergies | Ownership | Suitability rating | Opportunity |
|---|---|---|---|---|---|
| | Addresses whether the site is capable of being presented to the market at a reasonable cost based on earthworks, infrastructure and what the industry is likely prepared to pay. | Alignment of areas with infrastructure, locational and other requirements of target industries. | Fewer land holders/ government land ownership aids in acquisition if required. | | |
| | There are reticulated water and wastewater services in adjoining developed areas which provide readily accessible connection points.<br>***(High constraint subject to development type)*** | ***(High opportunity)*** | into 6 lots. This will resolve the existing problematic level of fragmentation.<br>***(Minimal constraint)*** | | |
| **Flinders View**<br>(17.1 off Briggs Road).<br>Comprises 17.01ha zoned LBI | The area is generally gently sloping (<3%) and could be developed with minimal earthworks.<br>The area is located within an Urban Utilities service connection area.<br>***(Minimal constraint)*** | Potential synergies with existing small industries including Boral concrete batching plant and JA Evans steel manufacturing plant.<br>***(High opportunity)*** | The level of fragmentation suggest holding sizes would not be a constraint to industrial subdivision.<br>***(Minimal constraint)*** | **Minimal constraint** | **High** |
| **New Chum**<br>71.3 ha north and south of Transpacific).<br>Comprises 70.33ha zoned RBII and 0.93ha zoned RBI (Medium Impact Sub Area | The area is constrained by slope over areas affected by existing mining activities. The remaining areas are generally gently sloping (<3%) and could be developed with minimal earthworks. However, undermining extent/severity is unknown.<br>Power and water is available to the north and south of the site but constrained at the centre and north east surrounding the landfill site.<br>The majority of the area is moderately constrained by poor wastewater/ sewer connectivity.<br>***(Moderate constraint)*** | The area has significant synergistic opportunities for new development. New Chum is an established industrial area and is located adjacent to the Swanbank Industrial hub. New Chum has exiting uses including the Transpacific Waste Management Landfill Facility.<br>This area provides opportunity for high impact and medium impact uses, waste recovery uses, uses requiring highway access,<br>***(High opportunity)*** | The level of fragmentation suggest holding sizes would not be a constraint to industrial subdivision.<br>***(Minimal constraint)*** | **Moderate - Minimal constraint** | **High** |
| **Redbank**<br>(60 ha infill areas on the Redbank Peninsula).<br>Comprises 13.73ha zoned RBI Low Impact, 36.04ha zoned RBI Medium Impact and 10.22ha zoned RBI Buffer. | Reticulated services are available in the area as a result of the existing industrial estate.<br>There is some access constraint due to bridge capacity.<br>***(Minimal constraint)*** | The area has significant synergistic opportunities as a result of the existing Redbank industrial estate and rail facility.<br>***(High opportunity)*** | The holding sizes are suitable for industrial development / infill development.<br>***(Minimal constraint)*** | **Minimal constraint** | **High** |
| **Redbank Plains**<br>(20.8 ha including about 17ha fronting Redbank Plains Road near Swanbank and 3.4 ha off Eagle Street).<br>Comprises 17.95ha zone LBI, 2.8ha zoned LBI Buffer and 0.04ha zoned RBI Buffer. | The area is generally gently sloping (<3%) and could be developed with minimal earthworks. However, undermining extent/severity is unknown.<br>Reticulated services are available in the area.<br>***(Moderate constraint)*** | The area has some synergistic opportunities from the Swanbank Enterprise Park and existing industrial area on Eagle Street. However, this area (3.4ha fronting Eagle St) is also constrained by adjacent residential development and would only be suitable for low impact industry uses.<br>***(Moderate opportunity)*** | The holding sizes are suitable for industrial development / infill development.<br>***(Minimal constraint)*** | **Moderate - Minimal constraint** | **Moderate** |
| **Walloon**<br>(29.81ha between Karrabin Rosewood Road and rail corridor), comprises 29.1ha zone LBII | The area is generally gently sloping (<3%) and could be developed with minimal earthworks.<br>Water and electricity services are potentially available along the Karrabin – Rosewood Road.<br>***(Moderate constraint)*** | The area is close to the Wulkuraka industrial area to the east which has a mix of low to medium impact manufacturing and engineering industries. This area provides the potential for expansion of low to medium impact activities<br>***(High opportunity)*** | The holding sizes are suitable for industrial development / infill development.<br>***(Minimal constraint)*** | **Moderate - Minimal constraint** | **High** |

### B.1.3 Social and Planning Considerations

| Location / Area | Population Growth/ Community Building | Local Workforce Characteristics | Amenity | Existing Development Approvals | Draft LAF mapping zoning | Industry Buffer Areas | Buffer to Sensitive Uses | Suitability rating | Opportunity |
|---|---|---|---|---|---|---|---|---|---|
| | Employment opportunities align with areas of growing workforce and contribute to community building | Local workforce characteristics align with future employment opportunities | Consideration of the number and density of sensitive receptors/ visual amenity | Development Approvals (DA) demonstrate the intent of future land use. | Consideration of Draft LAF mapping zoning and future planning particularly where previously zoned areas are removed | The Local Business and Industry Buffer and the Regional Business and Industry Buffer areas to be separately considered to the Industrial Zones | Buffer areas, that are identified as highly constrained to consider intensity of industrial use | | |
| **Amberley**<br>(127.43 ha west of RAAF Base fronting Haigslea – Amberley Rd, Rosewood Rd and south of the void fronting Mount Elton Mine Rd. Part of the Ebenezer industrial area.)<br>Comprises 25.56ha zoned RBIB (Buffer) adjacent the Bremer River and 101.87ha zoned RBII (Investigation). | Area supports future population in nearby growth areas of Rosewood / Walloon and the Ripley Valley. The Rosewood SA2 shows higher growth than Ipswich City until 2041. Could be developed as part of the larger Ebenezer industrial area.<br>SA2 data indicates Amberley has lower unemployment than Ipswich City, faster population growth and employees travel longer distance to work then the City average. Suggests additional employment opportunities required in this general area to meet future population needs.<br>***(High opportunity)*** | Local established workforce mainly in defence and aviation activities.<br>RAAF Base Amberley and military establishment at Redbank Peninsular provide defence employment opportunities.<br>By 2041, the neighbouring suburb of Rosewood is predicted to have one of the highest workforce populations in the LGA.<br>***(High opportunity)*** | Area largely characterised by mining and defence related activities.<br>No sensitive receptors in vicinity.<br>Approximately 80% of the area is affected by restrictions around the RAAF base to maintain operational requirements. This may influence build heights, outdoor lighting aspects of any future development.<br>***(Moderate constraint)*** | NA | Currently zone RBIIA and a small area along the Bremer River RBIB.<br>Draft LAF proposes change to Medium Impact Industry and Environmental Management.<br>The proposed zoning is consistent with this assessment.<br>***(High opportunity)*** | The area is currently zoned RBIB should be retained as Environmental Management.<br>***(Moderate opportunity)*** | Amberley is a well buffered and protected area. Buffer areas fall below the Bremer River flood regulation line and not suitable for development.<br>***(High opportunity)*** | **Moderate constraint** | **Moderate - High** |
| **Jeebropilly**<br>(597.15 ha around the former Jeebropilly open cut mine site)<br>Comprises 283.92ha zoned RBIB adjacent to the Bremer River and 313.23ha RBII | Area supports future population in nearby growth areas of Rosewood / Walloon and the Ripley Valley. The Rosewood SA2 shows higher growth than Ipswich City until 2041. Could be developed as part of the larger Ebenezer industrial area.<br>SA2 data indicates area has lower unemployment than Ipswich City, faster population growth and employees travel longer distance to work then the City average. Suggests additional employment opportunities required in this general area to meet future population needs.<br>***(Moderate opportunity)*** | Local established workforce. By 2041, the neighbouring suburb of Rosewood is predicted to have one of the highest workforce populations in the LGA.<br>***(High opportunity)*** | Area largely characterised by mining and defence related activities. Approximately 50% of the area is affected by restrictions around the RAAF base to maintain operational requirements. This may influence build heights, outdoor lighting aspects of any future development.<br>The only sensitive receptors are in the Willowbank residential area east of the vacant lot fronting Coopers Road which would require separation from higher impact activities.<br>***(Moderate constraint)*** | Several development proposals from private industry for sustainable energy, resource recovery and freight and logistics.<br>EDQ has a major land holding in Willowbank to the south being considered for a major transport interchange hub associated with the Inland Rail project.<br>***(Minimal constraint)*** | Area below flood regulation line currently zoned RBIB and to be designated Environmental Management in Draft LAF.<br>The remaining area zoned RBII and proposed as Medium Impact Industry. The proposed zoning is consistent with this assessment.<br>***(High opportunity)*** | The area currently zoned RBIB should be retained as Environmental Management.<br>***(High opportunity)*** | Buffer areas fall below the Bremer River flood regulation line and not suitable for development.<br>***(Minimal opportunity)*** | **Minimal – Moderate constraint** | **Moderate** |
| **Ebenezer**<br>(313.38ha of land mainly to the west and south of the former Ebenezer open cut mining area. Area excludes the void and adjacent areas of unconsolidated fill to the west).<br>Comprises 37.23ha zoned RBIB adjacent the Bremer River and along the western edge of the proposed industrial area and 276.16 ha zoned RBII. | Area would support future population in nearby growth areas of Rosewood, Yamanto and the Ripley Valley.<br>Both Rosewood and Ripley SA2 show higher growth than Ipswich City until 2041.<br>SA2 data indicates area has lower unemployment than Ipswich City, faster population growth and employees travel longer distance to work then the City average. Suggests additional employment opportunities required in this general area to meet future population needs.<br>***(High opportunity)*** | Future workforce characteristics will depend upon whether Willowbank is selected for a freight and logistics hub. A decision is likely late 2021.<br>***(High opportunity)*** | Area largely characterised by mining and defence related activities. No significant sensitive receptors in vicinity.<br>***(Minimal constraint)*** | Several development proposals from private industry for energy, resource recovery and freight and logistics. Nature of development approvals in area (MCU or combined applications for industrial uses) confirms attractiveness and suitability for industry.<br>EDQ has a major land holding in Willowbank to the south being considered for a major transport interchange hub associated with the Inland Rail project.<br>***(Minimal constraint)*** | Most of the area currently zones RBII with a narrow strip zoned as RBI Buffer along the western boundary.<br>The Draft LAF designates most of the area for Medium Impact Industry. Areas of high environmental value on the west of the disturbed surface areas have been designated as Environmental Management.<br>The proposed zoning is consistent with this assessment.<br>***(High opportunity)*** | The RBI Buffer area should be expanded as proposed in the Draft LAF and precluded from development.<br>***(High opportunity)*** | Area is a well buffered and protected area. There is a high probability of future expansion opportunities if required.<br>Buffer requirements will need to be reassessed as development proposals for this area are confirmed.<br>***(High opportunity)*** | **Minimal constraint** | **High** |

| Location / Area | Population Growth/ Community Building | Local Workforce Characteristics | Amenity | Existing Development Approvals | Draft LAF mapping zoning | Industry Buffer Areas | Buffer to Sensitive Uses | Suitability rating | Opportunity |
|---|---|---|---|---|---|---|---|---|---|
| | Employment opportunities align with areas of growing workforce and contribute to community building | Local workforce characteristics align with future employment opportunities | Consideration of the number and density of sensitive receptors/ visual amenity | Development Approvals (DA) demonstrate the intent of future land use. | Consideration of Draft LAF mapping zoning and future planning particularly where previously zoned areas are removed | The Local Business and Industry Buffer and the Regional Business and Industry Buffer areas to be separately considered to the Industrial Zones | Buffer areas, that are identified as highly constrained to consider intensity of industrial use | | |
| **Mount Forbes**<br>(251.24 ha largely comprising a number of large parcels north of Goebels Road).<br>Comprises 20.08ha zoned RBIB along the southern edge of the proposed industrial area and 231.15ha zone RBII. | Area would support future population in nearby growth areas of Rosewood / Walloon and the Ripley Valley.<br>Both Rosewood and Ripley SA2 show higher growth than Ipswich City until 2041.<br>SA2 data indicates area has lower unemployment than Ipswich City, faster population growth and employees travel longer distance to work then the City average. Suggests additional employment opportunities required in this general area to meet future population needs.<br>***(High opportunity)*** | Future workforce characteristics will depend upon whether Willowbank is selected for a freight and logistics hub. A decision is likely late 2021.<br>***(High opportunity)*** | Area largely characterised by mining and rural activities.<br>Some scattered rural residential properties surround the area.<br>***(Moderate constraint)*** | EDQ has a major land holding in Willowbank to the south being considered for a major transport interchange hub associated with the Inland Rail project.<br>***(Minimal constraint)*** | Currently zoned RBII.<br>Draft LAF designates area as Environmental Management, Rural 4 (Special Land Management) and Special Opportunity.<br>That part of the area adjoining the proposed Willowbank Industrial Area could be suitable for low impact buffering activities given current level of environmental significance.<br>***(Minimal opportunity)*** | This area could be considered as a transitional area separating higher impact activities from rural residential development<br>***(Moderate opportunity)*** | This area could be considered as a transitional area separating higher impact activities from rural residential development<br>***(Moderate opportunity)*** | **Moderate-Minimal constraint** | **Moderate** |
| **Willowbank**<br>(725 ha largely to the north, east and south of the former Ebenezer open cut mine). Comprises 82.26ha zone RBIB adjacent the Cunningham Highway and Coopers Road and 642.8ha zone RBII. | Area would support future population in nearby growth areas of Rosewood, Yamanto and the Ripley Valley.<br>Yamanto, Rosewood and Ripley SA2 show higher growth than Ipswich City until 2041.<br>SA2 data indicates area has lower unemployment than Ipswich City, faster population growth and employees travel longer distance to work then the City average. Suggests additional employment opportunities required in this general area to meet future population needs.<br>***(High opportunity)*** | Future workforce characteristics will depend upon whether Willowbank is selected for a freight and logistics hub. A decision is likely late 2021.<br>***(High opportunity)*** | Area largely characterised by mining and rural activities.<br>Some scattered rural residential properties surround the area.<br>***(Minimal constraint)*** | EDQ has a major land holding in this area and extending south into Willowbank being considered for a major transport interchange hub and industrial area associated with the Inland Rail project.<br>Nature of development approvals in area (MCU or combined applications for industrial uses) confirms attractiveness and suitability for industry.<br>***(Minimal constraint)*** | Currently zoned RBII.<br>Draft LAF proposes a large area designated Environmental Management to provide a buffer between Medium Impact Industry to the south. The Willowbank Raceway is proposed to be designated Tourism and land adjoining it to the south Special Opportunity being part of the proposed Inland Rail corridor.<br>The proposed zoning removes around 30% of the mapped area from industrial use.<br>***(High opportunity)*** | Buffer requirements will need to be reassessed as development proposals for this area are confirmed.<br>***(Moderate opportunity)*** | Buffer requirements will need to be reassessed as development proposals for this area are confirmed.<br>***(Moderate opportunity)*** | **Minimal constraint** | **Moderate-High** |
| **Mutdapilly**<br>(266.52ha south of Willow bank and west of the Cunningham Highway)<br>Comprises 15.1ha zoned RBIB adjacent to the highway and 251.42ha zone RBII. | Area would support future population in nearby growth areas of Rosewood, Yamanto and the Ripley Valley.<br>Yamanto, Rosewood and Ripley SA2 show higher growth than Ipswich City until 2041.<br>SA2 data indicates area has lower unemployment than Ipswich City, faster population growth and employees travel longer distance to work then the City average. Suggests additional employment opportunities required in this general area to meet future population needs.<br>***(High opportunity)*** | Future workforce characteristics will depend upon whether Willowbank is selected for a freight and logistics hub. A decision is likely late 2021.<br>***(High opportunity)*** | Area largely characterised by mining and rural activities.<br>Some scattered rural residential properties surround the area.<br>***(Minimal constraint)*** | NA | Currently zone RBII.<br>Draft LAF designates this area as Medium Impact Industry.<br>***(High opportunity)*** | Buffer requirements will need to be reassessed as development proposals for this area are confirmed.<br>***(Moderate opportunity)*** | Buffer requirements will need to be reassessed as development proposals for this area are confirmed.<br>***(Moderate opportunity)*** | **Minimal constraint** | **Moderate-High** |
| **Swanbank** | Area would support future population in nearby growth areas of Ripley Valley and Redbank Plains. | Local workforce established and by 2041, neighbouring Redbank Plains and Ripley | Area largely characterised by industrial activities. | Nature of development approvals in area (MCU /combined applications for | The Draft LAF designates Swanbank as Medium Impact Industry, Industry Investigation and Environmental | The 136.46 ha zoned RBI Buffer is not considered suitable for development as it comprises | Buffer requirements will need to be reassessed as development | **Minimal constraint** | **Moderate-High** |

| Location / Area | Population Growth/ Community Building | Local Workforce Characteristics | Amenity | Existing Development Approvals | Draft LAF mapping zoning | Industry Buffer Areas | Buffer to Sensitive Uses | Suitability rating | Opportunity |
|---|---|---|---|---|---|---|---|---|---|
| | Employment opportunities align with areas of growing workforce and contribute to community building | Local workforce characteristics align with future employment opportunities | Consideration of the number and density of sensitive receptors/ visual amenity | Development Approvals (DA) demonstrate the intent of future land use. | Consideration of Draft LAF mapping zoning and future planning particularly where previously zoned areas are removed | The Local Business and Industry Buffer and the Regional Business and Industry Buffer areas to be separately considered to the Industrial Zones | Buffer areas, that are identified as highly constrained to consider intensity of industrial use | | |
| (397.8h within the Swanbank Enterprise Park)<br>Comprises 132.03ha RBI Medium Impact, 94.28ha RBI (Medium Impact Sub Area), 14.8ha RBI Low Impact Sub Area),20.23ha RBII and 136.46ha RBI Buffer around the edges of the industrial area and along major drainage and infrastructure corridors | Ripley SA2 shows higher growth than Ipswich City until 2041.<br>***(High opportunity)*** | Valley are suburbs with a high workforce population.<br>***(High opportunity)*** | Residential areas beyond the highway to the west and east are adequately buffered.<br>***(Minimal constraint)*** | industrial uses) confirms attractiveness and suitability for industry.<br>***(Minimal constraint)*** | Management. Although some of the RBI Buffer has been assessed as physically suitable the proposal to retain it for Environmental Management is supported.<br>***(High opportunity)*** | part on an integrated buffer system around the area and separation from surrounding sensitive development.<br>***(Moderate opportunity)*** | proposals for this area are confirmed.<br>***(Moderate opportunity)*** | | |
| **Wulkuraka**<br>(39.9ha comprising infill and expansion area west of the existing industrial area).<br>Comprises 3.44ha zoned RBI Low Impact, 26.78ha zoned and 9.7ha zoned RBI Buffer) | Area provides a logical extension of existing industrial area.<br>High proportion of working age residents and high workforce participation rates.<br>***(High opportunity)*** | Local workforce established.<br>***(High opportunity)*** | Area reasonably well separated from urban residential in Ipswich.<br>***(Minimal constraint)*** | Nature of development approvals in area (MCU or combined applications for industrial uses including freight/depot) confirms attractiveness and suitability for industry.<br>***(Minimal constraint)*** | Mapped areas fronting Chalk Street and east of Enterprise Street currently zoned RBI Low Impact. Areas to west zone RBI Medium Impact and flood prone land along the Bremer River RBI Buffer.<br>Draft LAF mapping proposes these zones be redesignated Low Impact Industry, Medium Impact Industry and Environmental Management respectively.<br>The Environmental Management area has been extended to include all land south of the western extension of Chalk Street. This would reduce the mapped available area by approximately 4- 5 ha.<br>Draft LAF mapping is not consistent with this assessment.<br>***(Low opportunity)*** | The existing RBI Buffer is endorsed. Expansion of the buffer as proposed by the Draft LAF is inconsistent with the findings of this assessment.<br>***(High opportunity)*** | NA | **Minimal constraint** | **Moderate** |
| **Karrabin**<br>(83.3ha between the Karrabin Rosewood Road and the Bremer River).<br>Comprises 2.99ha zoned LBII, 22.23ha zoned RBI Medium Impact, 21.65ha RBI Buffer and 36.41ha zoned RBII. | Area provides a logical extension of existing industrial area.<br>Karrabin is located within the Ipswich REC and identified as a newer industrial area offering opportunity for growth and development for a wide range of industries.<br>High proportion of working age residents and high workforce participation rates.<br>***(High opportunity)*** | Local workforce established with the majority (approximately 20%) in Technician and Trade occupations (ABS 2016).<br>***(High opportunity)*** | Some low-density residential north of Karrabin Rosewood Road.<br>***(Moderate constraint)*** | Approximately 36.5 ha of vacant and developable land over five lots are constrained by a development application for a major utility/solar farm use (total development area of 50ha). Although this precludes development of these lots, it is compatible with future industrial uses adjacent. It may also provide synergistic opportunities.<br>The remaining approx. 47ha are considered highly suitable.<br>***(Minimal constraint)*** | Draft LAF mapping changes the area north of the rail line zoned LBII to Low Impact Industry.<br>Land south of the railway line has changed from LBII to a mix of Environmental Management to reflect areas of habitat value and Low Impact Industry. The area currently zoned RBI (Low Impact) adjacent the existing industrial area has been changed to Medium Impact Industry.<br>The proposed zoning is consistent with this assessment.<br>***(High Opportunity)*** | While some of the buffer areas were assessed as potentially suitable for development, the pockets of suitable land are fragmented. The current buffer zone should be retained.<br>***(Minimal opportunity)*** | NA | **Moderate-Minimal constraint** | **High** |

| Location / Area | Population Growth/ Community Building | Local Workforce Characteristics | Amenity | Existing Development Approvals | Draft LAF mapping zoning | Industry Buffer Areas | Buffer to Sensitive Uses | Suitability rating | Opportunity |
|---|---|---|---|---|---|---|---|---|---|
| | Employment opportunities align with areas of growing workforce and contribute to community building | Local workforce characteristics align with future employment opportunities | Consideration of the number and density of sensitive receptors/ visual amenity | Development Approvals (DA) demonstrate the intent of future land use. | Consideration of Draft LAF mapping zoning and future planning particularly where previously zoned areas are removed | The Local Business and Industry Buffer and the Regional Business and Industry Buffer areas to be separately considered to the Industrial Zones | Buffer areas, that are identified as highly constrained to consider intensity of industrial use | | |
| **Tivoli**<br>(19ha south of Mt Crosby Road east of the Musketeers Sports Club and 0.98 ha fronting Holdsworth Road) Comprises 3.74ha zoned LBI Buffer, and 15.12ha zoned LBII. | Central area positioned to support population growth in the wider Ipswich City.<br>High proportion of working age residents and high workforce participation rates.<br>***(High opportunity)*** | Central to an established industry workforce serving existing industrial enterprises in and nearby the Citiswich estate.<br>***(High opportunity)*** | Established industrial area to the east and mix of community facilities and residential to the west and south. Generally, Tivoli is a transitional area between urban and extensive industry.<br>***(Moderate constraint)*** | NA | Mapped area zoned LBII. Draft LAF designates area Industry Investigation.<br>The proposed zoning is consistent with this assessment.<br>***(High opportunity)*** | The RBI Buffer area between suitable land and the Bundamba STP is subject to flooding and is unsuitable for development.<br>***(Minimal opportunity)*** | NA | **Moderate constraint** | **Moderate-High** |
| **Bundamba**<br>(124.6 Ha within the Citiswich industrial area).<br>Comprises 0.88ha zoned LBI, 65.09ha zoned RBI Low Impact, 24.09ha RBI Medium Impact and 34.53ha zoned RBI Buffer.) | Central area positioned to support population growth in the wider Ipswich City.<br>High proportion of working age residents and high workforce participation rates.<br>***(High opportunity)*** | Central to an established industry workforce serving existing industrial enterprises in and nearby the Citiswich estate.<br>In 2016, Bundamba comprised 4.7% of the place of work for the industrial workforce of Ipswich City.<br>In 2016, Bundamba comprised 3.0% of the place of usual residence for the industrial workforce of Ipswich City.<br>***(High opportunity)*** | Established industrial location with buffers and low impact industry area used to provide separation from surrounding urban development.<br>***(Minimal constraint)*** | Nature of development approvals in area (MCU or combined applications for industrial uses) confirms attractiveness and suitability for industry.<br>***(Minimal constraint)*** | Currently zoned RBI Low Impact in the peripheral areas and RBI Medium Impact to the north west.<br>Draft LAF proposes to designate more land in the south as Medium Impact Industry or industry investigation) which will better reflect existing uses.<br>*The proposed zoning is consistent with this assessment.*<br>*(High opportunity)* | ***)***<br>The RBI Buffer area between suitable land and the Bundamba STP is subject to flooding and is unsuitable for development.<br>***(Minimal opportunity)*** | NA | **Minimal constraint** | **Moderate-High** |
| **Riverview**<br>(63.3ha north of the Warrego Highway and west of the JBS Abattoir)<br>Comprises 12.57ha zoned RBI Low Impact, 15.65ha RBI Medium Impact and 31.49ha zoned RBI Buffer along the Bremer River and west of the JBS abattoir. | Area supports future population in nearby growth areas of Rosewood / Walloon and the Ripley Valley. Both Rosewood and Ripley SA2 show higher growth than Ipswich City until 2041.<br>High proportion of working age residents and high workforce participation rates.<br>Between 2016-41, Riverview is expected to comprise 0.5% of the total proportion of growth in Ipswich City for the working age population.<br>***(High opportunity)*** | Local established workforce mainly in-service industries and potentially specialised automotive industry.<br>As of 2016, the resident workforce of Ipswich City were most likely to be employed as industrial related professions in SA2s: Camira, Redbank Plains and Riverview. In Riverview, 24.1% of workers were labourers.<br>As of 2016, the industrial workforce of Ipswich City were most likely to be employed as industrial related professions in the SA2s: Ripley, Goodna and Riverview. In Riverview, 40.4% of workers were labourers.<br>In 2016, Riverview comprised 5.2% of the place of work for the industrial workforce of Ipswich City.<br>***(High opportunity)*** | The area fronting Warwick Road is largely surrounded by urban residential, service industry and commercial development.<br>Lots fronting Berry and Belar Streets all back onto residential areas.<br>These constraints limit the suitability of this area to low impact activities.<br>***(Moderate constraint)*** | NA | Currently zoned RBI Low Impact in the peripheral areas and RBI Medium Impact around the abattoir.<br>Draft LAF proposes to designate RBI Medium Impact area fronting the highway to Low Impact Industry.<br>*The proposed zoning is consistent with this assessment.*<br>*(High opportunity)* | The RBI Buffer area between the abattoir and Salvation Army farm is unsuitable for development largely due to flooding<br>***(Minimal opportunity)))*** | The RBI Buffer area between the abattoir and Salvation Army farm is unsuitable for development largely due to flooding.<br>***(Minimal opportunity)*** | **Moderate constraint** | **High** |

| Location / Area | Population Growth/ Community Building | Local Workforce Characteristics | Amenity | Existing Development Approvals | Draft LAF mapping zoning | Industry Buffer Areas | Buffer to Sensitive Uses | Suitability rating | Opportunity |
|---|---|---|---|---|---|---|---|---|---|
| | Employment opportunities align with areas of growing workforce and contribute to community building | Local workforce characteristics align with future employment opportunities | Consideration of the number and density of sensitive receptors/ visual amenity | Development Approvals (DA) demonstrate the intent of future land use. | Consideration of Draft LAF mapping zoning and future planning particularly where previously zoned areas are removed | The Local Business and Industry Buffer and the Regional Business and Industry Buffer areas to be separately considered to the Industrial Zones | Buffer areas, that are identified as highly constrained to consider intensity of industrial use | | |
| **Yamanto**<br>(46.4ha west of and fronting Warwick Road and smaller areas along Berry Street).<br>Comprises 45.32ha zoned LBI and 9.1ha zoned LBI Buffer. | Area provides a logical extension of existing industrial area.<br>Area supports future population in nearby growth areas of Rosewood / Walloon and the Ripley Valley. Both Rosewood and Ripley SA2 show higher growth than Ipswich City until 2041.<br>High proportion of working age residents and high workforce participation rates.<br>Between 2016-41, Churchill/Yamanto is expected to comprise 1.0% of the total proportion of growth in Ipswich City for the working age population.<br>***(High opportunity)*** | Local workforce established.<br>In 2016, Churchill/Yamanto comprised 2.2% of the place of work for the industrial workforce of Ipswich City.<br>***(High opportunity)*** | Area reasonably well separated from urban residential in Ipswich.<br>***(Moderate constraint)*** | Nature of development approvals in area confirms attractiveness and suitability for industry.<br>***(Minimal constraint)*** | The area is currently zoned LBI with a strip along the Bremer River and the lot north of Berry Street zoned LBI Buffer.<br>The Draft LAF proposes these designations to be change to Low Impact Industry and Environmental Management respectively. There is potential for the large lot north of Berry Street to be used for land extensive industrial activity or other low impact employment to provide a transition between the residential areas and abattoir buffer. This area is approximately 10 ha.<br>***(High opportunity)*** | Part of the LBI Buffer north of Berry Street and west of the abattoir could be used for low impact/ land extensive employment.<br>***(Moderate opportunity)*** | Part of the LBI Buffer north of Berry Street and west of the abattoir could be used for low impact/ land extensive employment.<br>***(Moderate opportunity)*** | **Moderate-Minimal constraint** | **Moderate-High** |
| **Flinders View**<br>(17.1 off Briggs Road).<br>Comprises 17.01ha zoned LBI | Area supports future population in nearby growth areas of Rosewood / Walloon and the Ripley Valley.<br>Both Rosewood and Ripley SA2 show higher growth than Ipswich City until 2041. High proportion of working age residents and high workforce participation rates.<br>***(High opportunity)*** | Local established workforce mainly in service industries and potentially specialised automotive industry.<br>***(High opportunity)*** | Area is characterised by several major manufacturing enterprises surrounded by open space to the north and east and Deebing Creek corridor south and west. Site is reasonably well buffered from residential areas.<br>***(Minimal constraint)*** | Nature of development approvals in area (MCU or combined applications for industrial uses) confirms attractiveness and suitability for industry.<br>***(Minimal constraint)*** | Draft LAF proposes to designate the area as Low Impact Industry due to location.<br>***(High opportunity)*** | The area is in reasonably close proximity to residential areas and therefore best suited to lower impact activities.<br>Existing buffer areas should be retained.<br>***(Moderate opportunity)*** | Existing buffer areas should be retained. | **Minimal constraint** | **Moderate-High** |
| **New Chum**<br>(39.9ha comprising infill and expansion area west of the existing industrial area).<br>Comprises 3.44ha zoned RBI Low Impact, 26.78ha zoned and 9.7ha zoned RBI Buffer | Area provides a logical extension of existing industrial area.<br>The location of employment opportunities in New Chum would support residential population growth in Ripley and greater Ipswich. Ripley SA2 shows higher growth than Ipswich City until 2041.<br>***(Moderate opportunity)*** | Local workforce established.<br>In 2016, the working population of Ipswich City were most likely to be employed as industrial related occupations in the SA2s: Rosewood, New Chum and Riverview. In New Chum, 36.2% of the workers were machinery operators or drivers.<br>***(High opportunity)*** | Area largely characterised by industrial activities and separated from Ipswich residential areas of Ebbw Vale (west), Collingwood Park (east) buffered by Six Mile Creek corridor, St Peter Claver College and some residential uses (north), Riverview State School (north east). The Swanbank industrial area is located south of the area.<br>***(Moderate constraint)*** | Nature of development approvals in area (ROL) confirms attractiveness and suitability for industry.<br>***(Minimal constraint)*** | Currently zoned for Industry Investigation and Special Use for the waste facility.<br>***(High opportunity)*** | No zoned buffer areas are mapped in this area. A large corridor of recreation greenspace separates residential uses to the east<br>***(Moderate opportunity)*** | Buffer requirements will need to be reassessed as development proposals for this area are confirmed.<br>***(Moderate opportunity)*** | **Moderate-Minimal constraint** | **Moderate-High** |
| **Redbank**<br>(60 ha infill areas on the Redbank Peninsula).<br>Comprises 13.73ha zoned RBI Low Impact, 36.04ha zoned RBI Medium Impact and 10.22ha zoned RBI Buffer. | Area supports future population in nearby growth area of Ripley Valley. Ripley SA2 shows higher growth than Ipswich City until 2041.<br>High proportion of working age residents and high workforce participation rates.<br>***(High opportunity)*** | Local established workforce. The most common occupations in Redbank included Labourers 22.0%, Machinery Operators and Drivers 15.3%, and Technicians and Trades Workers 12.1% (ABS 2016).<br>***(High opportunity)*** | The area is characterised by an established industrial area bordered by the Brisbane River to the north, pockets of low density residential and green space to the south separated by the Ipswich Motorway and rail line. Site is reasonably well buffered from residential areas.<br>***(Minimal constraint)*** | Nature of development approvals in area (MCU or combined applications for industrial uses) confirms attractiveness and suitability for industry.<br>***(Minimal constraint)*** | Draft LAF proposes to designate the majority of identified land as Environmental Management and Special Purpose with some small areas as Low Impact Industry.<br>***(Minimal opportunity)*** | The area is in reasonably close proximity to residential areas and therefore best suited to lower impact activities.<br>***(Moderate opportunity)*** | Buffer areas fall below the draft Planning Scheme Major Flood Conveyance / High Risk Defined Flood Event / Moderate Risk / Major Flood Storage lines and is not suitable for development.<br>***(Minimal opportunity)*** | **Minimal constraint** | **Moderate** |
| **Redbank Plains**<br>(20.8 ha including about 17ha fronting Redbank Plains Road near Swanbank and | Area supports future population in nearby growth area of Ripley Valley. Ripley SA2 shows higher growth than Ipswich City until 2041. | Local established workforce. The most common occupations in Redbank Plains (State Suburbs) included Labourers 16.7%, Machinery | Low density residential adjacent. Likely suitable for low impact uses only.<br>***(Moderate constraint)*** | Nature of development approvals in area (MCU or combined applications for industrial uses) confirms | Draft LAF proposes to designate the areas as Low Impact Industry due to location.<br>***(High opportunity)*** | Existing buffer to residential area should be retained<br>***(Minimal opportunity)*** | NA Existing buffer to residential area should be retained.<br>***(Minimal opportunity)*** | **Minimal – Moderate constraint** | **High** |

| Location / Area | Population Growth/ Community Building | Local Workforce Characteristics | Amenity | Existing Development Approvals | Draft LAF mapping zoning | Industry Buffer Areas | Buffer to Sensitive Uses | Suitability rating | Opportunity |
|---|---|---|---|---|---|---|---|---|---|
| | Employment opportunities align with areas of growing workforce and contribute to community building | Local workforce characteristics align with future employment opportunities | Consideration of the number and density of sensitive receptors/ visual amenity | Development Approvals (DA) demonstrate the intent of future land use. | Consideration of Draft LAF mapping zoning and future planning particularly where previously zoned areas are removed | The Local Business and Industry Buffer and the Regional Business and Industry Buffer areas to be separately considered to the Industrial Zones | Buffer areas, that are identified as highly constrained to consider intensity of industrial use | | |
| 3.4 ha off Eagle Street).<br>Comprises 17.95ha zone LBI, 2.8ha zoned LBI Buffer and 0.04ha zoned RBI Buffer. | High proportion of working age residents and high workforce participation rates.<br>***(High opportunity)*** | Operators and Drivers 15.3%, Technicians and Trades Workers 14.4% (ABS 2016).<br>***(High opportunity)*** | | attractiveness and suitability for industry.<br>***(Minimal constraint)*** | | | | | |
| **Walloon**<br>(29.81ha between Karrabin Rosewood Road and rail corridor)<br>Comprises 29.81ha zone LBII | Area provides a logical extension of existing industrial area. High proportion of working age residents and high workforce participation rates.<br>***(High opportunity)*** | Local established workforce. The most common occupations in Walloon (State Suburbs) included Technicians and Trades Workers 19.5%, and Labourers 13.3% (ABS 2016).<br>***(Moderate opportunity)*** | Some low density residential within the area. Area adjoins the Walloon residential area so best suited for local or low impact business and industry.<br>***(Moderate constraint)*** | Development applications for incompatible uses (residential) exist over the majority of land identified in the sieve 1 assessment (>15ha of the total 29ha).<br>***(High constraint)*** | Draft LAF mapping proposes this area be zoned Industry Investigation.<br>The proposed zoning is consistent with this assessment.<br>***(High Opportunity)*** | NA | NA | **Moderate-High constraint** | **High-Moderate** |

### B.1.4 Infrastructure Considerations

| Location / Area | Emergency Services | Road Infrastructure connection | Quality of Transport Routes | Road Network Capacity | Waste Services | Proximity to Reticulated Water | Water Infrastructure Programming | Wastewater Infrastructure Programming | Undermining | Suitability rating |
|---|---|---|---|---|---|---|---|---|---|---|
| | Site has access to emergency services | Ability to access services and infrastructure required for industrial development. | A high-quality network of roads is available to service the estate and provide linkages to synergistic activities and markets | Availability or timing of interchanges to meet capacity requirements | Access to waste disposal facilities | Serviceability with reticulated water potable and or recycled water | Timing of planned water infrastructure upgrades to provide service capacity | Timing of planned wastewater infrastructure upgrades to provide service capacity | Further detail of the impact of subterranean constraints specific to the location | |
| **Amberley**<br>(127.43 ha west of RAAF Base fronting Haigslea – Amberley Rd, Rosewood Rd and south of the void fronting Mount Elton Mine Rd. Part of the Ebenezer industrial area)<br>Comprises 25.56ha zoned RBIB (Buffer) adjacent the Bremer River and 101.87ha zoned RBII (Investigation). | Area is within 10 kms drive to nearest Ambulance Station and 3 kms to nearest Fire Station.<br>***(Minimal constraint)*** | Reasonably good access to the Cunningham highway and some<br>ability to access services due to proximity to existing development.<br>Capacity of roads may be limited.<br>***(Neutral)*** | Area serviced by rural standard roads.<br>Intersection with Cunningham Highway is congested at peak times. TMR have plans for eventual major interchange and connection between the two highways.<br>***(Moderate constraint)*** | Major roadworks area proposed in the LGIP to service the entire Ebenezer area and provide upgraded connections to the Cunningham Highway and the city road network.<br>Major interchange works to improve connectivity to the Cunningham Highway have been planned by TMR but not likely in the short term (>10years).<br>***(Moderate constraint)*** | Waste disposal facilities available at New Chum approximately 15kms from area.<br>Proposed development of resource recovery facilities within the Ebenezer industrial area an opportunity.<br>***(Minimal constraint)*** | Reticulated water along Haigslea – Amberley Road.<br>Small area may be able to be serviced by extension of existing nearby infrastructure.<br>***(Moderate constraint)*** | EDQ has undertaken water planning for the entire Ebenezer area. Timing of infrastructure pending the outcome of business case for intermodal hub however EDQ advise no infrastructure prior to 2023-24.<br>Area currently outside Urban Utilities service area.<br>***(Moderate constraint)*** | No wastewater connection in vicinity and area not currently included in Urban Utilities service area.<br>EDQ has undertaken wastewater planning for the entire Ebenezer area including proposals for on-site treatment and disposal within the Ebenezer Industrial Area. Timing of infrastructure pending the outcome of business case for intermodal hub however EDQ advise no infrastructure prior to 2023-24.<br>***(High constraint)*** | Undermining potentially affects about 50% of the identified land in this area. Further risk assessment is required to determine the extent this will constrain developability.<br>***(High constraint)*** | **Moderate constraint** |
| **Jeebropilly**<br>(597.15 ha around the former Jeebropilly open cut mine site).<br>Comprises 283.92ha zoned RBIB adjacent to | Area is within 8 kms drive to nearest Ambulance Station and 4 kms to nearest Fire Station.<br>***(Minimal constraint)*** | Reasonably good access to the Cunningham highway and some<br>ability to access services due to proximity to existing development.<br>Capacity of roads may be limited. | Area serviced by rural standard roads.<br>Intersection with Cunningham Highway is congested at peak times. TMR have plans for eventual major interchange and connection between the two highways. | Major roadworks area proposed in the LGIP to service the entire Ebenezer area and provide upgraded connections to the Cunningham Highway and the city road network.<br>Works are not scheduled until 2036-41 in current LGIP | Waste disposal facilities available at New Chum approximately 16kms from area.<br>Proposed development of resource recovery facilities within the Ebenezer industrial area an opportunity. | No reticulated water in area.<br>***(High constraint)*** | EDQ has undertaken water planning for the entire Ebenezer area. Timing of infrastructure pending the outcome of business case for intermodal hub however EDQ advise no infrastructure prior to | No wastewater connection in vicinity and area not currently included in Urban Utilities service area.<br>EDQ has undertaken wastewater planning for the entire Ebenezer area including proposals for on-site treatment and disposal within the Ebenezer Industrial | TBD Undermining potentially affects about 90% of the identified land in this area. Further risk assessment is required to determine the extent this will | **Moderate constraint** |

| Location / Area | Emergency Services | Road Infrastructure connection | Quality of Transport Routes | Road Network Capacity | Waste Services | Proximity to Reticulated Water | Water Infrastructure Programming | Wastewater Infrastructure Programming | Undermining | Suitability rating |
|---|---|---|---|---|---|---|---|---|---|---|
| | Site has access to emergency services | Ability to access services and infrastructure required for industrial development. | A high-quality network of roads is available to service the estate and provide linkages to synergistic activities and markets | Availability or timing of interchanges to meet capacity requirements | Access to waste disposal facilities | Serviceability with reticulated water potable and or recycled water | Timing of planned water infrastructure upgrades to provide service capacity | Timing of planned wastewater infrastructure upgrades to provide service capacity | Further detail of the impact of subterranean constraints specific to the location | |
| the Bremer River and 313.23ha RBII | | ***(Neutral)*** | ***(Moderate constraint)*** | Major interchange works to improve connectivity to the Cunningham Highway have been planned by TMR but not likely in the short term.<br>***(Moderate constraint)*** | ***(Minimal constraint)*** | | 2023-24. Any infrastructure would be staged from EDQs land at Willowbank<br>Area currently outside Urban Utilities service area.<br>***(Moderate constraint)*** | Area. Timing of infrastructure pending the outcome of business case for intermodal hub however EDQ advise no infrastructure prior to 2023-24. Any infrastructure would be staged from EDQs land at Willowbank<br>***(Moderate constraint)*** | constrain developability.<br>***(High constraint)*** | |
| **Ebenezer**<br>(313.38ha of land mainly to the west and south of the Ebenezer open cut mining area. Area excludes the void and adjacent areas of unconsolidated fill to the west)<br>Comprises 37.23ha zoned RBIB adjacent the Bremer River and along the western edge of the proposed industrial area and 276.16 ha zoned RBII. | Area is within 4 kms drive to nearest Ambulance Station and 4 kms to nearest Fire Station.<br>***(Minimal constraint)*** | Coopers Road and Ebenezer Road provide access to the Cunningham Highway. This road and the highway interchange would require upgrading to service this area.<br>***(Moderate constraint)*** | Area serviced by rural standard roads.<br>Intersection with Cunningham Highway is congested at peak times. TMR have plans for eventual major interchange and connection between the two highways.<br>EDQ has undertaken road network planning for this area for the Willowbank Industrial estate. Timing of infrastructure pending the outcome of business case for intermodal hub however EDQ advise no infrastructure prior to 2023-24. Any infrastructure would be staged from EDQs land at Willowbank.<br>***(Moderate constraint)*** | Major roadworks area proposed in the LGIP to service the entire Ebenezer area and provide upgraded connections to the Cunningham Highway and the city road network.<br>Works are not scheduled until 2036-41 in current LGIP<br>Major interchange works to improve connectivity to the Cunningham Highway have been planned by TMR but not likely in the short term.<br>***(Moderate constraint)*** | Waste disposal facilities available at New Chum approximately 19kms from area.<br>Proposed development of resource recovery facilities within the Ebenezer industrial area an opportunity.<br>***(Minimal constraint)*** | Area with the Ebenezer Regional Development Area with EDQ undertaking infrastructure planning. This includes water connection and pump station within Ebenezer. Timing of infrastructure pending the outcome of business case for intermodal hub however EDQ advise no infrastructure prior to 2023-24. Any infrastructure would be staged from EDQs land at Willowbank.<br>***(Moderate constraint)*** | EDQ has undertaken water planning for the entire Ebenezer area. Timing of infrastructure pending the outcome of business case for intermodal hub however EDQ advise no infrastructure prior to 2023-24. Any infrastructure would be staged from EDQs land at Willowbank<br>Area currently outside Urban Utilities service area.<br>***(Moderate constraint)*** | Area with the Ebenezer Regional Development Area with EDQ undertaking infrastructure planning.<br>EDQ has undertaken wastewater planning for the entire Ebenezer area including proposals for on-site treatment and disposal within the Ebenezer Industrial Area. Timing of infrastructure pending the outcome of business case for intermodal hub however EDQ advise no infrastructure prior to 2023-24. Any infrastructure would be staged from EDQs land at Willowbank.<br>***(Moderate constraint)*** | TBD Undermining potentially affects about 90% of the identified land in this area. Further risk assessment is required to determine the extent this will constrain developability.<br>***(High constraint)*** | **Moderate constraint** |
| **Mount Forbes**<br>(251.24 ha largely comprising a number of large parcels north of Goebels Road)<br>Comprises 20.08ha zoned RBIB along the southern edge of the proposed industrial area and 231.15ha zone RBII. | Area is within 8 kms drive to nearest Ambulance Station and 8 kms to nearest Fire Station.<br>***(Moderate constraint)*** | Reasonably good access from Goebels Road with existing nearby interchange with the Cunningham Highway.<br>Could be linked to proposed Willowbank Industrial Area to reduce impact on Goebels Road.<br>***(Moderate constraint)*** | Area serviced by rural standard roads.<br>Intersection with Cunningham Highway is congested at peak times. TMR have plans for eventual major interchange and connection between the two highways.<br>***(Moderate constraint)*** | Major roadworks area proposed in the LGIP to service the entire Ebenezer area and provide upgraded connections to the Cunningham Highway and the city road network.<br>Works are not scheduled until 2036-41 in current LGIP<br>Major interchange works to improve connectivity to the Cunningham Highway have been planned by TMR but not likely in the short term.<br>***(Moderate constraint)*** | Waste disposal facilities available at New Chum approximately 22kms from area.<br>Proposed development of resource recovery facilities within the Ebenezer industrial area an opportunity.<br>***(Minimal constraint)*** | Area with the Ebenezer Regional Development Area with EDQ undertaking infrastructure planning.<br>No reticulated water in area.<br>***(Moderate constraint)*** | EDQ has undertaken water planning for the entire Ebenezer area. Timing of infrastructure pending the outcome of business case for intermodal hub however EDQ advise no infrastructure prior to 2023-24. Any infrastructure would be staged from EDQs land at Willowbank.<br>Area currently outside Urban Utilities service area.<br>***(Moderate constraint)*** | No wastewater connection in vicinity and area not currently included in Urban Utilities service area.<br>EDQ has undertaken wastewater planning for the entire Ebenezer area including proposals for on-site treatment and disposal within the Ebenezer Industrial Area. Timing of infrastructure pending the outcome of business case for intermodal hub however EDQ advise no infrastructure prior to 2023-24. Any infrastructure would be staged from EDQs land at Willowbank<br>***(Moderate constraint)*** | TBD Undermining potentially affects about 90% of the identified land in this area. Further risk assessment is required to determine the extent this will constrain developability.<br>***(High constraint)*** | **Moderate constraint** |
| **Willowbank**<br>(725 ha largely to the north, east and south of the former Ebenezer open cut mine). | Area is within 9 kms drive to nearest Ambulance Station and 5 kms to nearest Fire Station.<br>***(Moderate constraint)*** | Good access to the south of the site from Champions Way with the existing nearby interchange with the Cunningham Highway.<br>***(Minimal constraint)*** | EDQ has undertaken road network planning for this area. This includes approval for at grade intersection on the Highway in the short term with a grade separated | Major roadworks area proposed in the LGIP to service the entire Ebenezer area and provide upgraded connections to the Cunningham Highway and the city road network. Works are | Waste disposal facilities available at New Chum approximately 16kms from area.<br>Proposed development of resource recovery facilities within the | Area with the Ebenezer Regional Development Area with EDQ undertaking infrastructure planning.<br>No reticulated water in area. | EDQ has undertaken water planning for the entire Ebenezer area including approval for a water reservoir (for the greater Ebenezer region), pump station, | Area with the Ebenezer Regional Development Area with EDQ undertaking infrastructure planning.<br>EDQ has undertaken wastewater planning for the entire Ebenezer area including proposals for on- | Undermining potentially affects all of the identified land in this area. Further risk assessment is required to determine the extent this will | **Minimal – moderate constraint** |

| Location / Area | Emergency Services | Road Infrastructure connection | Quality of Transport Routes | Road Network Capacity | Waste Services | Proximity to Reticulated Water | Water Infrastructure Programming | Wastewater Infrastructure Programming | Undermining | Suitability rating |
|---|---|---|---|---|---|---|---|---|---|---|
| | Site has access to emergency services | Ability to access services and infrastructure required for industrial development. | A high-quality network of roads is available to service the estate and provide linkages to synergistic activities and markets | Availability or timing of interchanges to meet capacity requirements | Access to waste disposal facilities | Serviceability with reticulated water potable and or recycled water | Timing of planned water infrastructure upgrades to provide service capacity | Timing of planned wastewater infrastructure upgrades to provide service capacity | Further detail of the impact of subterranean constraints specific to the location | |
| Comprises 82.26ha zone RBIB adjacent the Cunningham Highway and Coopers Road and 642.8ha zone RBII. | | | intersection in the long term north of Gobels Road.<br>The Cox Road development has approval for logistics warehouses and is required to upgrade Paynes Road, Champions Way to Highway.<br>Timing of infrastructure pending the outcome of business case for intermodal hub however EDQ advise no infrastructure prior to 2023-24. Any infrastructure would be staged from EDQs land at Willowbank.<br>TMR have plans for eventual major interchange and connection between the two highways.<br>***(Minimal constraint)*** | not scheduled until 2036-41 in current LGIP.<br>Major interchange works to improve connectivity to the Cunningham Highway have been planned by TMR but not likely in the short term.<br>***(Moderate constraint)*** | Ebenezer industrial area an opportunity.<br>***(Minimal constraint)*** | ***(Moderate constraint)*** | 375ml pipe/ pipe enhancement to/from the airport.<br>Timing of infrastructure pending the outcome of business case for intermodal hub however EDQ advise no infrastructure prior to 2023-24. Any infrastructure would be staged from EDQs land at Willowbank.<br>Area currently outside Urban Utilities service area.<br>***(Moderate constraint)*** | site treatment and disposal within the Ebenezer Industrial Area (pump out first 150EPs, package treatment plant to 1500EPs, oxidisation ditch 3000EPs) to 138ha of irrigated woodland.<br>Timing of infrastructure pending the outcome of business case for intermodal hub however EDQ advise no infrastructure prior to 2023-24. Any infrastructure would be staged from EDQs land at Willowbank<br>***(Minimal constraint)*** | constrain developability.<br>Advice from EDQ indicates that no undermining is present at this location.<br>***(Minimal constraint)*** | |
| **Mutdapilly**<br>(266.52 ha EDQ site).<br>Comprises 15.1ha zoned RBIB adjacent to the highway and 251.42ha zone RBII. | Area is within 14 kms drive to nearest Ambulance Station and 14 kms to nearest Fire Station.<br>***(Moderate constraint)*** | Poor access to Cunningham Highway.<br>However, EDQ has undertaken road network planning for this area and has approved infrastructure plans to enable the first stage of development.<br>***(Moderate constraint)*** | EDQ has undertaken road net network planning for this area and has approved infrastructure plans to enable the first stage of development.<br>Timing of infrastructure pending the outcome of business case for intermodal hub however EDQ advise no infrastructure prior to 2023-24. Any infrastructure would be staged from EDQs land at Willowbank.<br>TMR have plans for eventual major interchange and connection between the two highways.<br>***(Minimal constraint)*** | Major roadworks area proposed in the LGIP to service the entire Ebenezer area and provide upgraded connections to the Cunningham Highway and the city road network.<br>Works are not scheduled until 2036-41 in current LGIP<br>Major interchange works to improve connectivity to the Cunningham Highway have been planned by TMR but not likely in the short term.<br>***(Moderate constraint)*** | Waste disposal facilities available at New Chum approximately 20kms from area.<br>Proposed development of resource recovery facilities within the Ebenezer industrial area an opportunity.<br>***(Minimal constraint)*** | Area located within the Ebenezer Regional Development Area with EDQ undertaking infrastructure planning.<br>No reticulated water in area.<br>***(Moderate constraint)*** | EDQ has undertaken water planning for the entire Ebenezer area. Timing of infrastructure pending the outcome of business case for intermodal hub however EDQ advise no infrastructure prior to 2023-24. Any infrastructure would be staged from EDQs land at Willowbank.<br>Area currently outside Urban Utilities service area.<br>***(Moderate constraint)*** | Area with the Ebenezer Regional Development Area with EDQ undertaking infrastructure planning.<br>EDQ has undertaken wastewater planning for the entire Ebenezer area including proposals for on-site treatment and disposal within the Ebenezer Industrial Area. Timing of infrastructure pending the outcome of business case for intermodal hub however EDQ advise no infrastructure prior to 2023-24. Any infrastructure would be staged from EDQs land at Willowbank<br>***(Minimal constraint)*** | Undermining potentially affects all of the identified land in this area. Further risk assessment is required to determine the extent this will constrain developability.<br>Advice from EDQ indicates that no undermining is present at this location.<br>***(Moderate constraint)*** | **Minimal – moderate constraint** |
| **Swanbank**<br>(397.8h within the Swanbank Enterprise Park)<br>Comprises 132.03ha RBI Medium Impact, 94.28ha RBI (Medium Impact Sub Area), 14.8ha RBI Low Impact Sub Area),20.23ha RBII and 136.46ha RBI Buffer around the | Area is within 5 kms drive to nearest Ambulance Station and 2 kms to nearest Fire Station.<br>***(Minimal constraint)*** | North of the site, access is available via the existing interchange along Redbank Plains road.<br>Towards the centre of the site, there is the potential for access via Swanbank road.<br>South-east of the site, there is the potential for access to Cunningham Highway via Mount Juillerat Drive.<br>***(Moderate constraint)*** | Poor quality internal networks due to difficult terrain and mining constraints.<br>LGIP identifies several major road proposals in this area but not likely in the short term: The extension to the future Ipswich to Springfield railway line, Centenary and Cunningham Highways, an arterial and sub-arterial road network.<br>***(Moderate constraint)*** | Currently poor. Lack of road network coverage and existing roads access roads are poor quality.<br>Redbank Plains Road proposed to be progressively upgraded from 2026 -2041 to increase capacity for Swanbank and surrounding areas.<br>The extension of New Hill Road between Rob Roy Road and Swanbank Coal Road | Waste disposal facilities available at New Chum approximately 3kms from area<br>***(Minimal constraint)*** | Several trunk water mains run through the area below Redbank Plains Road. Existing industries fronting Noblevale Way and Rob Roy Way are service with water but are not included in Water Connection Area.<br>***(Moderate constraint)*** | There are no Water Connection Areas or Future Water Connection Areas shown on the Netserv plans.<br>Mapped areas at the southern part of Swanbank appear to be in the Ripley Valley PDA.<br>***(High constraint)*** | Existing industries in Noblevale Way and Rob Roy Way serviced by pump station and rising main to trunk sewer along Six Mile Creek.<br>There is no other sewerage infrastructure in the area.<br>None of the Swanbank area is within the existing or future connection areas.<br>***(Moderate constraint)*** | Undermining potentially affects all the identified land in this area. Further risk assessment is required to determine the extent this will constrain developability.<br>***(High constraint)*** | **Moderate constraint** |

| Location / Area | Emergency Services | Road Infrastructure connection | Quality of Transport Routes | Road Network Capacity | Waste Services | Proximity to Reticulated Water | Water Infrastructure Programming | Wastewater Infrastructure Programming | Undermining | Suitability rating |
|---|---|---|---|---|---|---|---|---|---|---|
| | Site has access to emergency services | Ability to access services and infrastructure required for industrial development. | A high-quality network of roads is available to service the estate and provide linkages to synergistic activities and markets | Availability or timing of interchanges to meet capacity requirements | Access to waste disposal facilities | Serviceability with reticulated water potable and or recycled water | Timing of planned water infrastructure upgrades to provide service capacity | Timing of planned wastewater infrastructure upgrades to provide service capacity | Further detail of the impact of subterranean constraints specific to the location | |
| edges of the industrial area and along major drainage and infrastructure corridors. | | | | through the industrial area is programmed for 2021-26.<br>Provision of future access roads in the south to link with Mt Juillerat Drive (Redbank Plains) and to the Ripley Town Centre not programmed until 2036-41.<br>***(High constraint)*** | | | | | | |
| **Wulkuraka**<br>(39.9ha comprising infill and expansion area west of the existing industrial area).<br>Comprises 3.44ha zoned RBI Low Impact, 26.78ha zoned and 9.7ha zoned RBI Buffer). | Area is within 5 kms drive to nearest Ambulance Station and 3 kms to nearest Fire Station.<br>***(Minimal constraint)*** | Karrabin – Rosewood Road runs the length of this area providing convenient access to Ipswich and.<br>***(Minimal constraint)*** | Karrabin – Rosewood Road runs the length of this area providing convenient access. The Wulkuraka Connection Road provides a link to the Warrego Highway at Blacksoil.<br>***(Minimal constraint)*** | Road likely to have capacity for limited area given proximity of Warrego Highway interchange.<br>***(Minimal constraint)*** | Waste disposal facilities available at New Chum approximately 10kms from area.<br>***(Moderate constraint)*** | Trunk water main/ reticulated water along Schillings Road and Karrabin – Rosewood Road. Further extension west would be required to service mapped areas. Infill areas are within Water Connection Area.<br>***(Minimal constraint)*** | Large area south of Toongarra Road in Future Connection Area.<br>***(Minimal constraint)*** | Wastewater services would need to be extended west to service mapped area.<br>Closest trunk main runs east of Beirne Street.<br>All mapped areas are within the Future Connection Area.<br>***(Minimal constraint)*** | NA | **Minimal constraint** |
| **Karrabin**<br>(83.3ha between the Karrabin Rosewood Road and the Bremer River).<br>Comprises 2.99ha zoned LBII, 22.23ha zoned RBI Medium Impact, 21.65ha RBI Buffer and 36.41ha zoned RBII. | Area is within 6 kms drive to nearest Ambulance Station and 2 kms to nearest Fire Station.<br>***(Minimal constraint)*** | Karrabin – Rosewood Road runs the length of this area providing convenient access.<br>***(Minimal constraint)*** | Karrabin – Rosewood Road runs the length of this area providing convenient access. The Wulkuraka Connection Road provides a link to the Warrego Highway at Blacksoil<br>***(Minimal constraint)*** | Road likely to have capacity for limited area given proximity of Warrego Highway interchange.<br>***(Minimal constraint)*** | Waste disposal facilities available at New Chum approximately 11 kms from area.<br>***(Moderate constraint)*** | Trunk water main along Karrabin – Rosewood Road.<br>Lots fronting J Hanson Road withing Water Connection Area<br>***(Minimal constraint)*** | All remaining areas within Future Connection Area.<br>***(Minimal constraint)*** | Closest trunk main runs east of Beirne Street.<br>All mapped areas are within the Future Connection Area.<br>Sewerage services would need to be extended west to service mapped area.<br>***(Moderate constraint)*** | NA | **Minimal - Moderate constraint** |
| **Tivoli**<br>(19ha south of Mt Crosby Road east of the Musketeers Sports Club and 0.98 ha fronting Holdsworth Road) Comprises 3.74ha zoned LBI Buffer, and 15.12ha zoned LBII. | Area is within 4 kms drive to nearest Ambulance Station and 4 kms to nearest Fire Station.<br>***(Minimal constraint)*** | Area is well connected to the Ipswich and regional road network.<br>***(Minimal constraint)*** | Mt Crosby Road is a major road and site is within 1.5kms of the Warrego Highway interchange.<br>***(Minimal constraint)*** | Road likely to have capacity for development given proximity of Warrego Highway interchange.<br>LGIP Future Major Road Links (Arterial and Sub-Arterial Roads) including Intersections / Connections (to be further investigated) connecting North Station Road north of the river and Mount Crosby Road in North Tivoli.<br>***(Minimal constraint)*** | Waste disposal facilities available at New Chum approximately 6kms from area<br>***(Moderate constraint)*** | Water mains available along Mount Crosby Road. Services would need to be extended to service mapped area.<br>***(Moderate constraint)*** | Mapped area within Water Connection Area.<br>***(Minimal constraint)*** | Sewerage services available along Mount Crosby Road.<br>***(Minimal constraint)*** | Approximately 10ha of the mapped area subject to potential mining constraints.<br>***(Moderate constraint)*** | **Minimal - Moderate constraint** |
| **Bundamba**<br>(124.6 Ha within the Citiswich industrial area).<br>Comprises 0.88ha zoned LBI, 65.09ha zoned RBI Low | Area is within 4 kms drive to nearest Ambulance Station and 1 km to nearest Fire Station.<br>***(Minimal constraint)*** | Citiswich is well connected to the Ipswich and regional road network.<br>***(Minimal constraint)*** | Citiswich has convenient links to both the Warrego and Cunningham Highways via the River Road interchanges.<br>***(Minimal constraint)*** | Good access to high-capacity network.<br>***(Minimal constraint)*** | Waste disposal facilities available at New Chum approximately 1-2 kms from area.<br>***(Minimal constraint)*** | Well serviced by reticulated water. Trunk water mains run throughout the area.<br>***(Minimal constraint)*** | Well serviced by reticulated water. All areas within Water Connection Area or Future Connection Area.<br>***(Minimal constraint)*** | Several trunk sewer mains traverse the Citiswich industrial area.<br>All mapped areas included in Future Connection Areas.<br>***(Minimal constraint)*** | Potential for mining constraints on lots backing onto rail corridor only.<br>***(Minimal constraint)*** | **Minimal constraint** |

| Location / Area | Emergency Services | Road Infrastructure connection | Quality of Transport Routes | Road Network Capacity | Waste Services | Proximity to Reticulated Water | Water Infrastructure Programming | Wastewater Infrastructure Programming | Undermining | Suitability rating |
|---|---|---|---|---|---|---|---|---|---|---|
| | Site has access to emergency services | Ability to access services and infrastructure required for industrial development. | A high-quality network of roads is available to service the estate and provide linkages to synergistic activities and markets | Availability or timing of interchanges to meet capacity requirements | Access to waste disposal facilities | Serviceability with reticulated water potable and or recycled water | Timing of planned water infrastructure upgrades to provide service capacity | Timing of planned wastewater infrastructure upgrades to provide service capacity | Further detail of the impact of subterranean constraints specific to the location | |
| Impact, 24.09ha RBI Medium Impact and 34.53ha zoned RBI Buffer.) | | | | | | | | | | |
| **Riverview**<br>(63.3ha north of the Warrego Highway and west of the JBS Abattoir)<br>Comprises 12.57ha zoned RBI Low Impact, 15.65ha RBI Medium Impact and 31.49ha zoned RBI Buffer along the Bremer River and west of the JBS abattoir. | Area is within 2 kms drive to nearest Ambulance Station and 4 kms to nearest Fire Station.<br>***(Minimal constraint)*** | Minor road connectivity to the road network and Warrego Highway only.<br>***(High constraint)*** | Close to major transport routes but currently has only poor linkages, via an unnamed road from Citiswich under the Highway.<br>***(Neutral)*** | Potential access to the River Road interchange<br>***(Neutral)*** | Waste disposal facilities available at New Chum approximately 1-2 kms from area.<br>***(Minimal constraint)*** | Well serviced by reticulated water. Trunk water mains run throughout the area.<br>***(Minimal constraint)*** | All areas with Water Connection Area apart from lot west of abattoir which is in Future Connection Area.<br>***(Minimal constraint)*** | Existing trunk and rising mains on opposite side of Warrego Highway along Ashburn Road.<br>Mapped areas included in Future Connection Area.<br>***(Minimal constraint)*** | Approximately 10 ha is potentially affected by mining constraints in the south eastern corner of the mapped area.<br>***(Moderate constraint)*** | **Minimal - Moderate constraint** |
| **Yamanto**<br>(46.4ha west of and fronting Warwick Road and smaller areas along Berry Street).<br>Comprises 45.32ha zoned LBI and 1.06ha zoned LBI Buffer | Area is within 4 kms drive to nearest Ambulance Station and 4 kms to nearest Fire Station.<br>***(Minimal constraint)*** | Area is well connected the Ipswich and regional road network.<br>Future upgrading of Lobb Street proposed in LGIP will improve connectivity to the Wulkuraka industrial area. This is not programmed until 2036-41.<br>***(Minimal constraint)*** | Berry Street, Saleyards Road and Hall Street provide good connectivity to Warwick Road and the nearby Cunningham Highway interchange.<br>***(Minimal constraint)*** | Warwick Road and Cunningham Highway provide high-capacity connections to area.<br>***(Moderate constraint)*** | Waste disposal facilities available at New Chum approximately 9.5kms from area.<br>***(Minimal constraint)*** | Reticulated water is available in adjoining developments. Trunk mains along Warwick, Saleyards and Goddards Roads.<br>***(Minimal constraint)*** | Area included for servicing in Netserv plans.<br>***(Minimal constraint)*** | Trunk mains and rising mains service residential area west and east of the area. A future pump station and trunk main area planned in Berry Street.<br>All areas are within the Future Connection Area.<br>***(Minimal constraint)*** | NA | **Minimal - Moderate constraint** |
| **Flinders View**<br>(17.1 off Briggs Road).<br>Comprises 17.01ha zoned LBI | Area is within 2kms drive to nearest Ambulance Station and 1kms to nearest Fire Station.<br>***(Minimal constraint)*** | Area is well connected the Ipswich and regional road network although network shares traffic with adjacent residential areas.<br>***(Moderate constraint)*** | Close to Cunningham Highway / Ripley Road interchange.<br>***(Minimal constraint)*** | Shared network with residential areas limits capacity. Proposed Briggs Road, Edwards Street and Ripley Road upgrades in LGIP will improve connectivity to Highway and network capacity. Works on the latter roads are programmed for 2021-26.<br>***(Moderate constraint)*** | Waste disposal facilities available at New Chum approximately 6 kms from area.<br>***(Moderate constraint)*** | Trunk mains along Edwards Street and Briggs Road to the north.<br>***(Minimal constraint)*** | All mapped areas within the Water Connection Area.<br>***(Minimal constraint)*** | Trunk main runs around the perimeter of the mapped area, along Deeping Creek.<br>***(Moderate constraint)*** | NA | **Minimal - Moderate constraint** |
| **New Chum**<br>71.3 ha north and south of Transpacific).<br>Comprises 70.33ha zoned RBII and 0.93ha zoned RBI (Medium Impact Sub Area) | Area is within 6 kms drive to nearest Ambulance Station and 2 kms to nearest Fire Station.<br>***(Minimal constraint)*** | South of the site, access is available via the existing interchange along Redbank Plains road / interchange from the highway.<br>Access to the highway is also available from Chum Street north of the waste facility. Access to the north is from Old Ipswich Road, passing through residential areas. | The extension to the future Ipswich to Springfield railway line, Centenary and Cunningham Highways, an arterial and sub-arterial road network.<br>***(Moderate opportunity)*** | Currently poor. Lack of road network and quality of access roads poor.<br>Redbank Plains Road proposed to be progressively upgraded from 2026 -2041 to increase capacity for Swanbank and surrounding areas.<br>No additional access infrastructure planned.<br>***(High constraint)*** | Waste disposal facilities available on site.<br>***(Minimal constraint)*** | Trunk main at end of Chum Street near the Highway entrance.<br>***(Moderate constraint)*** | Area not included in the Netserv Plans.<br>***(High constraint)*** | Nearest trunk sewer is in Claver Place, Riverview to the north.<br>None of the area is included in the Netserv plans.<br>***(High constraint)*** | Undermining potentially affects all of the identified land in this area. Further risk assessment is required to determine the extent this will constrain developability.<br>***(High constraint)*** | **Moderate – High constraint** |

| Location / Area | Emergency Services | Road Infrastructure connection | Quality of Transport Routes | Road Network Capacity | Waste Services | Proximity to Reticulated Water | Water Infrastructure Programming | Wastewater Infrastructure Programming | Undermining | Suitability rating |
|---|---|---|---|---|---|---|---|---|---|---|
| | Site has access to emergency services | Ability to access services and infrastructure required for industrial development. | A high-quality network of roads is available to service the estate and provide linkages to synergistic activities and markets | Availability or timing of interchanges to meet capacity requirements | Access to waste disposal facilities | Serviceability with reticulated water potable and or recycled water | Timing of planned water infrastructure upgrades to provide service capacity | Timing of planned wastewater infrastructure upgrades to provide service capacity | Further detail of the impact of subterranean constraints specific to the location | |
| | | No additional access infrastructure planned.<br>***(Moderate opportunity)*** | | | | | | | | |
| **Redbank**<br>(60 ha infill areas on the Redbank Peninsula).<br>Comprises 13.73ha zoned RBI Low Impact, 36.04ha zoned RBI Medium Impact and 10.22ha zoned RBI Buffer. | Area is within 5kms to nearest Ambulance Station and 5kms to nearest Fire Station.<br>***(Minimal constraint)*** | Area is well connected the Ipswich and regional road network via Brisbane Terrace and Ipswich Motorway.<br>Constrained to the North by Brisbane River.<br>Access to rail infrastructure.<br>***(Minimal constraint)*** | Good quality routes linking industrial areas to regional network.<br>***(Minimal constraint)*** | Future State Controlled Road mapped in the area including intersections / connections (to be further investigated) to Monash Road.<br>***(Minimal constraint)*** | Waste disposal facilities available at New Chum approximately 2.95 kms from area.<br>***(Moderate constraint)*** | Trunk mains extend through the industrial area. Most areas within Water Connection Area<br>***(Minimal constraint)*** | Some mapped areas along the Bremer River frontage and around the STP with the Future Connection Area.<br>***(Minimal constraint)*** | Trunk mains and rising main connect the industrial area to the nearby Goodna WWTP.<br>New trunk main and pump station proposed to service those mapped areas fronting the Bremer River.<br>All mapped areas are included in the Future Connection Area.<br>***(Minimal constraint)*** | NA | **Minimal - Moderate constraint** |
| **Redbank Plains**<br>(20.8 ha including about 17ha fronting Redbank Plains Road near Swanbank and 3.4 ha off Eagle Street).<br>Comprises 17.95ha zone LBI, 2.8ha zoned LBI Buffer and 0.04ha zoned RBI Buffer. | Area is within 8kms drive to nearest Ambulance Station and 8kms to nearest Fire Station.<br>***(Moderate constraint)*** | Good connections to regional network through Redbank Plains Road to the Cunningham Highway and Jones Road/ Augustine Parkway connection to Centenary Highway.<br>***(Minimal constraint)*** | Good quality routes linking industrial areas to regional network.<br>***(Minimal constraint)*** | Upgrading works proposed and Eagle Street in LGIP in 2021-26 will improve capacity to Redbank Plains Road.<br>Redbank Plains Road proposed to be progressively upgraded from 2026 -2041 to increase capacity for Swanbank and surrounding areas.<br>***(Minimal constraint)*** | Waste disposal facilities available at New Chum approximately 1km from area.<br>***(Moderate constraint)*** | The Redbank Plains Road site has short frontage to a trunk main in Greenwood Village Road.<br>The Eagle Street site is serviced by reticulated mains.<br>***(Minimal constraint)*** | Most of the Redbank Plains Road site included in Water Connection Area. A sliver of site along Redbank Plains Road frontage in Future Connection Area.<br>The Eagle Street site is included in the Water Connection Area<br>***(Minimal constraint)*** | Both identified vacant sites within the area have access to trunk sewer infrastructure.<br>Mapped industrial area on Redbank Plains Road within Future Connection Area. Eagle Street area in Connection Area.<br>***(Minimal constraint)*** | Undermining potentially affects all the identified land in this area. Further risk assessment is required to determine the extent this will constrain developability.<br>***(High constraint)*** | **Moderate constraint** |
| **Walloon**<br>(29.81ha between Karrabin Rosewood Road and rail corridor)<br>Comprises 29.1ha zone LBII | Area is within 10kms drive to nearest Ambulance Station and 10kms to nearest Fire Station.<br>***(Moderate constraint)*** | Karrabin – Rosewood Road runs the length of this area providing convenient access.<br>***(Minimal constraint)*** | Karrabin – Rosewood Road runs the length of this area providing convenient access. The Wulkuraka Connection Road provides a link to the Warrego Highway at Blacksoil<br>***(Minimal constraint)*** | Road likely to have capacity for limited area given proximity of Warrego Highway interchange.<br>***(Minimal constraint)*** | Waste disposal facilities available at New Chum approximately 14kms from area.<br>***(Moderate constraint)*** | Trunk water main along Karrabin – Rosewood Road.<br>***(Minimal constraint)*** | Vacant land not included in existing of future Connection Areas.<br>***(Moderate constraint)*** | Closest trunk main runs east of Beirne Street.<br>All mapped areas are within the Future Connection Area.<br>***(Moderate constraint)*** | NA | **Minimal - Moderate constraint** |

# Appendix C  Industrial Property Market Overview

# C.1 Industrial Property Market Overview

This section of the report provides an overview of the Ipswich City industrial land market to understand the current and historic dynamics likely to influence industrial land demand. The assessment considers the volume, value and median sale price for vacant and improved property (i.e., industrial zoned land with a building on it) located on industrial zoned land. Take-up rates have also been considered to inform the industrial land demand projections for the Ipswich City.

The property market analysis has been undertaken at a Council wide level and includes a breakdown following key industrial areas:

- Ebenezer
- Swanbank/New Chum
- Bundamba/Citiswich
- Carole Park
- Redbank
- Yamanto
- Wulkuraka/Karrabin and
- Balance (the remaining areas).

# C.2 **Vacant** Land

This section provides an overview of the sales performance of vacant industrial land market within Ipswich City Council between 2009-10 and 2019-20.

## C.2.1 Volume of Sales

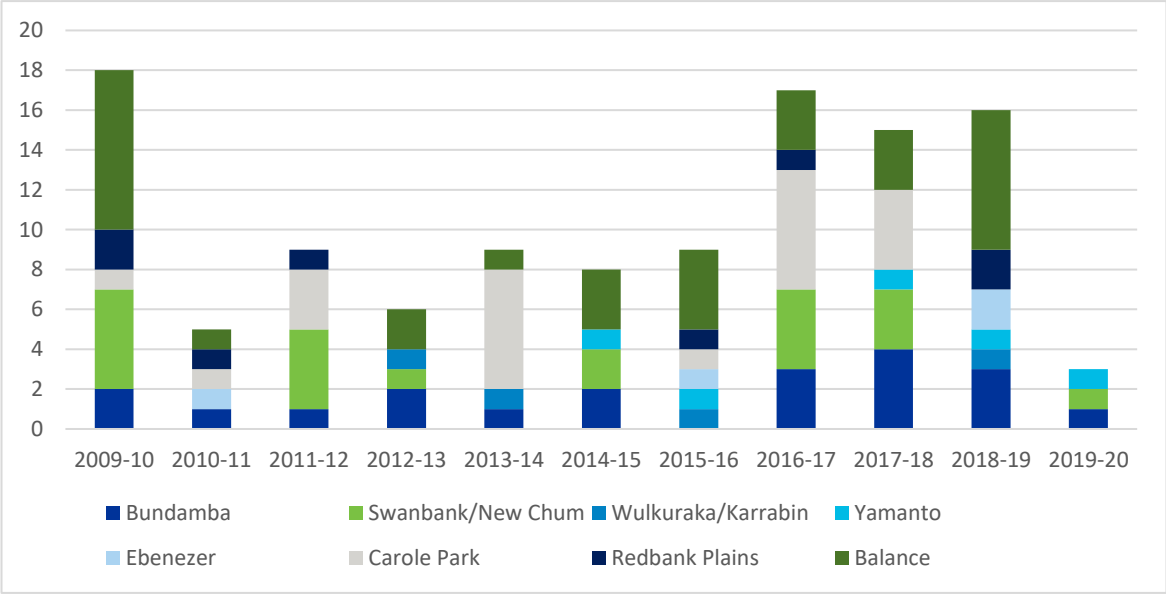
Over the past decade the number of vacant land sales in Ipswich City was 115 in total, averaging 10 sales per annum. The vacant industrial land sales in Ipswich City peaked in 2016-17 with 17 sales, decreasing to 3 sales in the most recent financial year. The industrial areas with the largest volume of sales are as follows:

- The balance of industrial land: a total of 32 vacant industrial land sales, with sales peaking in 2009-10 (8 sales)
- Carole Park: vacant industrial land sales were highest in 2013-14 and 2016-17 at 6 sales in each year and a total of 22 vacant land sales over the past decade and
- Bundamba: peaked at 4 vacant industrial land sales in 2017-18 and totalled 20 sales between 2009-10 and 2019-20.

Vacant industrial land in Wulkuraka/Karrabin and Ebenezer recorded the lowest volume of sales between 2009-10 and 2019-20 with only 4 sales over this period.

Figure 4-1 below summarises the volume of vacant industrial zoned land sales within Ipswich City's between 2009-10 and 2019-20.

**Volume of Vacant Land Sales – Ipswich City, 2009-10 to 2019-20**



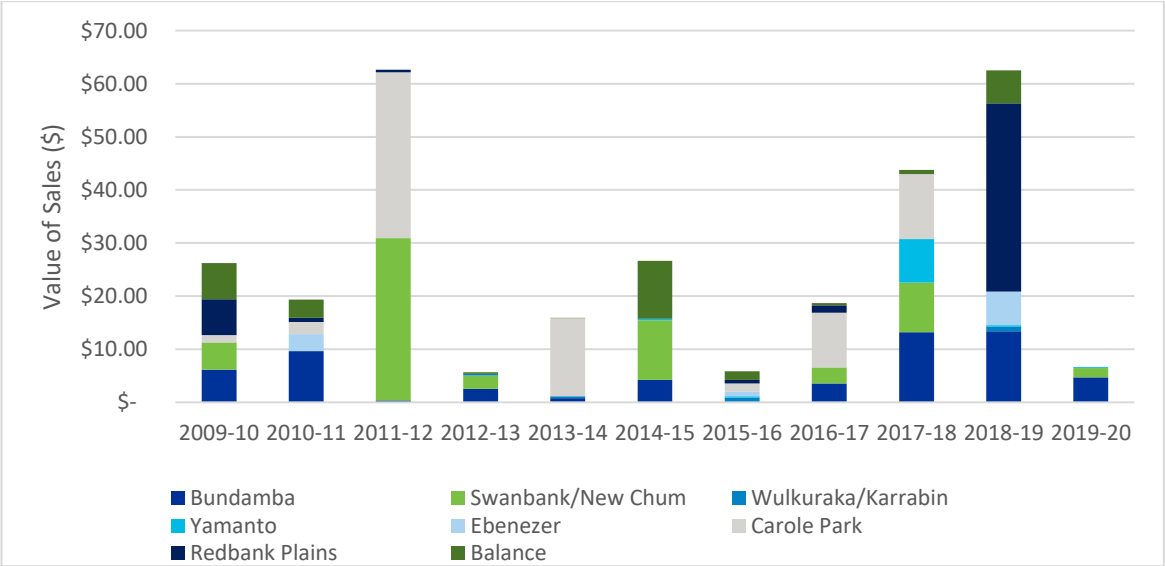

Source: Pricefinder (2020)

## C.2.2 Value of Sales

Between 2009-10 and 2019-20, the average value of vacant land sales within Ipswich City was $26.71 million per annum. The total value of vacant land sales was highest in 2011-12 at $62.63 million and lowest in 2012-13 at $5.69 million. Over this period, the average annual value of vacant land sales was highest in Carole Park ($6.70 million), Swanbank/New Chum ($5.77 million) and Bundamba ($5.33 million).

Figure 4-2 below summarises the value of vacant industrial zoned land sales within Ipswich City's between 2009-10 and 2019-20.

**Value of Vacant Land Property Sales ($m) – Ipswich City, 2009-10 to 2019-20**




Source: Pricefinder (2020)

## C.2.3 Median Allotment Size

The median allotment size for vacant land allotments sold within Ipswich City's industrial zoned land was highest in Ebenezer and lowest within the balance of industrial land. The largest vacant industrial land allotment sale occurred in 2018-19 in Ebenezer for a parcel of land which was approximately 308ha in size. This lot was located at 43-81 Lanes Road and is zoned for regional business and industry investigation uses.

Table 4-1 below summarises the median allotment size for vacant industrial zoned land sales within Ipswich City's between 2009-10 and 2019-20.

**Median Allotment Size (sqm), Vacant Land – Ipswich City, 2009-10 to 2019-20**

| | Bundamba | Swanbank/ New Chum | Wulkuraka/ Karrabin | Yamanto | Ebenezer | Carole Park | Redbank Plains | Balance |
|---|---|---|---|---|---|---|---|---|
| 2009-10 | 15,455 | 475,500 | - | - | - | 5,899 | 55,219 | 3,882 |
| 2010-11 | 35,790 | - | - | - | 447,680 | 7,940 | 4,074 | 458,000 |
| 2011-12 | 1,490 | 186,050 | - | - | - | 33,060 | 3,784 | - |
| 2012-13 | 5,042 | 20,410 | 64,750 | - | - | - | - | 4,047 |
| 2013-14 | 4,228 | - | 7,540 | - | - | 5,716 | - | 4,047 |
| 2014-15 | 10,332 | 472,629 | - | 2,426 | - | - | - | 122,400 |
| 2015-16 | - | - | 36,450 | 2,861 | 339,900 | 6,093 | 4,922 | 2,811 |
| 2016-17 | 4,102 | 9,175 | - | - | - | 4,334 | 7,823 | 10,471 |
| 2017-18 | 5,092 | 15,030 | - | 183,307 | - | 11,828 | - | 2,869 |
| 2018-19 | 28,560 | - | 117,359 | 2,426 | 3,078,100 | - | 57,961 | 6,449 |
| 2019-20 | 23,980 | 156,400 | - | 2,415 | - | - | - | - |
| **Median** | **5,276** | **171,007** | **50,600** | **2,426** | **393,790** | **6,785** | **4,922** | **4,047** |

Source: Pricefinder (2020)

## C.2.4 Median Price per Square Metre

In the 2009-10 to 2019-20 period, the median sales price per square metre for vacant industrial zoned land within Ipswich City was highest in Carole Park (median sale price of $241.70 per square metre) and lowest in Ebenezer (median sale price $3.72 per square metre). Over the past decade, the highest median sales price for vacant industrial land was achieved in Carole Park in 2010-11 at a median sale price of $290.93 per square metre.

Table 4-2 below summarises the median sales price per square metre for vacant industrial zoned land sales within Ipswich City's between 2009-10 and 2019-20.

**Median Sales Price per Square Metre ($ per sqm) – Ipswich City, 2009-10 to 2019-20**

| | Bundamba | Swanbank/ New Chum | Wulkuraka/ Karrabin | Yamanto | Ebenezer | Carole Park | Redbank Plains | Balance |
|---|---|---|---|---|---|---|---|---|
| 2009-10 | $201.80 | $1.26 | - | - | - | $239.62 | $123.09 | $223.29 |
| 2010-11 | $269.64 | - | - | - | $7.13 | $290.93 | $192.69 | $7.47 |
| 2011-12 | $243.62 | $30.06 | - | - | - | $258.50 | $130.81 | - |
| 2012-13 | $249.29 | $122.94 | $4.96 | - | - | - | - | $39.58 |
| 2013-14 | $190.00 | - | $43.77 | - | - | $259.87 | - | $2.17 |
| 2014-15 | $193.03 | $10.71 | - | $111.29 | - | - | - | $73.53 |
| 2015-16 | - | - | $24.14 | $101.89 | $2.59 | $243.77 | $140.62 | $148.24 |
| 2016-17 | $281.54 | $69.52 | - | - | - | $226.96 | $175.76 | $29.41 |
| 2017-18 | $226.08 | $72.72 | - | $45.01 | - | $203.51 | - | $138.03 |
| 2018-19 | $225.03 | - | $7.24 | $124.69 | $2.92 | - | $245.30 | $117.66 |
| 2019-20 | $197.25 | $11.12 | - | $62.11 | - | - | - | - |
| **Median** | **$225.55** | **$30.06** | **$15.69** | **$101.89** | **$2.92** | **$243.77** | **$158.19** | **$73.53** |

Source: Pricefinder (2020)

### C.2.5 Sales by Lot Size

The analysis also assessed vacant industrial property sales volume by lot size category, which have been amalgamated for the 2009-10 to 2019-20 period. Of the 115 vacant industrial land sales, sales were largely concentrated within the 2,000-4,999sqm (37 sales) and five or more hectares (30 sales). Lots sized less than 1,000sqm and lots sized between 1,000-1,999sqm achieved the lowest volume of sales in the same period, each recording three and seven vacant industrial land sales, respectively. The table below reports the volume of vacant industrial land sales within Ipswich City by lot size category between 2009-10 and 2019-20.

**Volume of vacant industrial land sales, by lot size, Ipswich City, 2009-10 to 2019-20**

| Lot Category | Bundamba | Swanbank/ New Chum | Wulkuraka/K arrabin | Yamanto | Ebenezer | Carole Park | Redbank Plains | Balance |
|---|---|---|---|---|---|---|---|---|
| <1,000sqm | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1,000-1,999sqm | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 2,000-4,999sqm | 8 | 0 | 0 | 4 | 0 | 8 | 5 | 12 |
| 5,000-9,999sqm | 2 | 1 | 1 | 0 | 0 | 7 | 1 | 4 |
| 1-5ha | 7 | 5 | 1 | 0 | 0 | 5 | 0 | 4 |
| 5ha+ | 1 | 13 | 2 | 1 | 4 | 2 | 2 | 5 |
| **Total** | **20** | **20** | **4** | **5** | **4** | **22** | **8** | **32** |

Source: Pricefinder (2020)

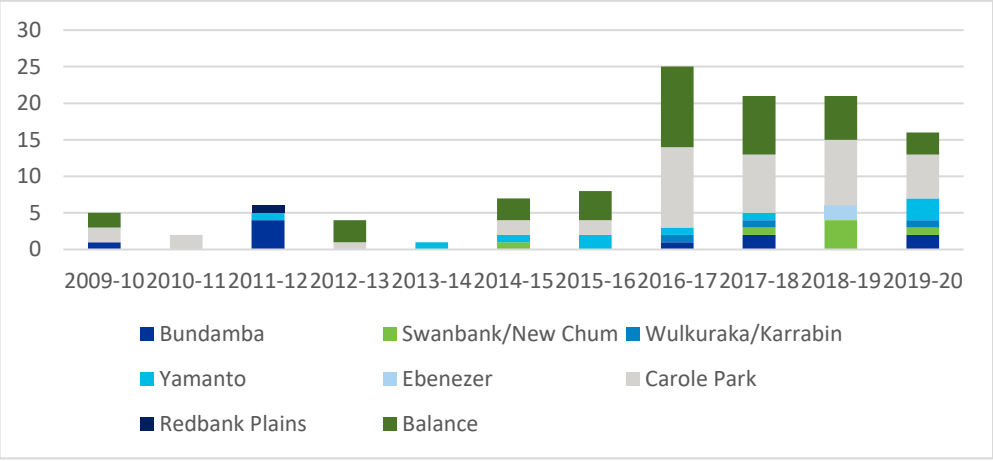
## C.3 Improved Properties

This section provides an overview of the sales performance of improved industrial properties (i.e., industrial zoned land with a building on it) within Ipswich City between 2009-10 to 2019-20.

### C.3.1 Volume of Sales

Over the past decade there have been a total of 116 improved industrial property sales within Ipswich City, averaging 11 sales per annum. The volume of improved property sales was lowest in 2013-14 (single sale) and peaked in 2016-17 (25 sales) before declining to 16 sales in 2019-20. The volume of improved industrial property sales was highest in the Carole Park area with a total of 43 sales over the analysis period, followed by the Balance Areas with a total of 40 sales. Notably, between 2009-10 and 2019-20 there was a single improved industrial land sale recorded in Redbank Industrial Area. The figure below summarises the volume of improved property sales within Ipswich City's industrial zoned land between 2009-10 and 2019-20.

**Volume of Improved Property Sales – Ipswich City, 2009-10 to 2019-20**



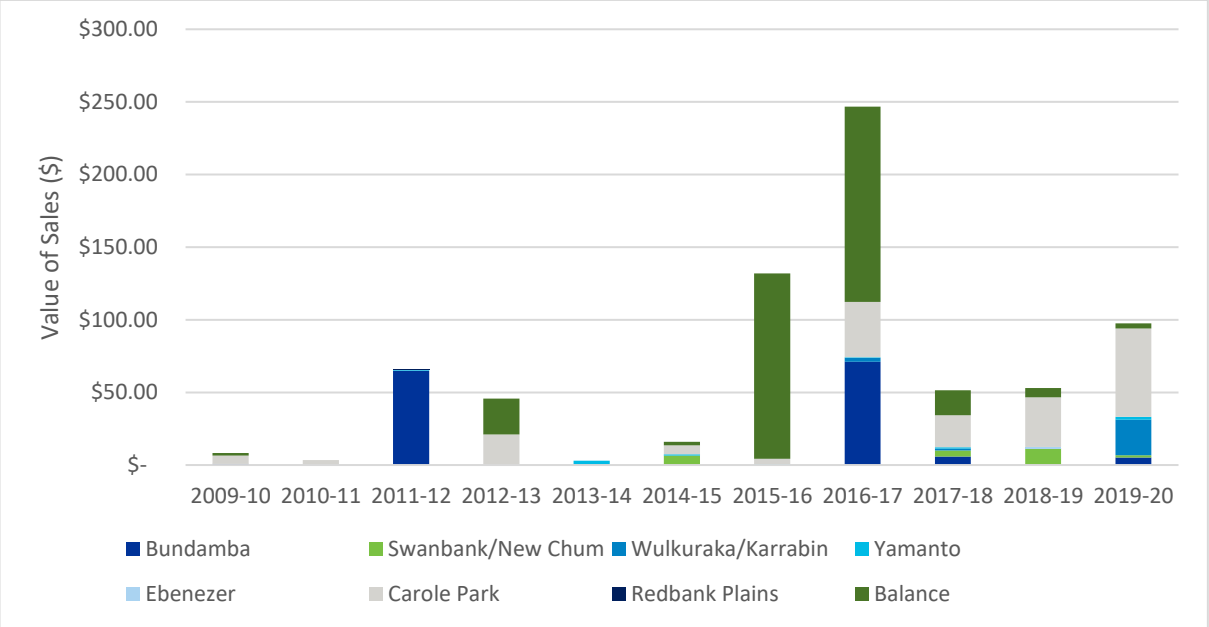

Source: Pricefinder (2020)

## C.3.2 Value of Sales

Over the past ten years, the average value of improved property sales was $65.73 million per annum, with a low of $3.0 million in 2013-14 and a peak of $246.48 million in 2016-17. The total value of sales was highest in the Balance Areas totalling $318.17 million over the assessment period and averaging $28.92 million in sales per annum. In the most recent year, the total value of improved property sales was highest in Carole Park compared to the other areas analysed This is primarily due to the sale of two large properties on Cobalt Street and one on Ron Boyle Crescent.

Figure 4-4 below summarises the value of improved property sales within Ipswich City's industrial zoned land between 2009-10 and 2019-20.

**Value of Improved Property Sales ($m) – Ipswich City, 2009-10 to 2019-20**




Source: Pricefinder (2020)

## C.3.3 Median Allotment Size

Over the last ten years, the median allotment size for improved property sales was lowest within the Balance Areas (median allotment size of 3,257 square metres) and highest in Swanbank/New Chum (median allotment size of 107,000 square metres). Typically, improved properties in industrial areas are of a smaller size than vacant lots. This is largely due improved properties in Swanbank/New Chum being more likely to have strata titles or being a part of a subdivision for further development.

Table 4-4 below summarises the median allotment size for improved property sales within Ipswich City's industrial zoned land between 2009-10 and 2019-20.

**Median Allotment Size (sqm), Improved Property – Ipswich City, 2009-10 to 2019-20**

| | Bundamba | Swanbank/ New Chum | Wulkuraka/ Karrabin | Yamanto | Ebenezer | Carole Park | Redbank | Balance |
|---|---|---|---|---|---|---|---|---|
| 2009-10 | 50,930 | - | - | - | - | 5,083 | - | 2,266 |
| 2010-11 | - | - | - | - | - | 4,270 | - | - |
| 2011-12 | 29,455 | - | - | 741 | - | - | 1,936 | - |
| 2012-13 | - | - | - | - | - | 27,200 | - | 9,093 |
| 2013-14 | - | - | - | 7,867 | - | - | - | - |
| 2014-15 | - | 45,710 | - | 14,180 | - | 5,073 | - | 3,262 |
| 2015-16 | - | - | - | 1,392 | - | 4,754 | - | 3,666 |

| | Bundamba | Swanbank/ New Chum | Wulkuraka/ Karrabin | Yamanto | Ebenezer | Carole Park | Redbank | Balance |
|---|---|---|---|---|---|---|---|---|
| 2016-17 | 122,762 | - | 27,210 | 3,670 | - | 4,539 | - | 2,621 |
| 2017-18 | 6,383 | 107,000 | 17,721 | 2,861 | - | 4,461 | - | 2,124 |
| 2018-19 | - | 146,690 | - | - | 10,000 | 7,238 | - | 3,272 |
| 2019-20 | 4,729 | 8,010 | 16,510 | 2,974 | - | 8,744 | - | 8,127 |
| **Median** | **15,375** | **107,000** | **17,721** | **2,918** | **10,000** | **4,959** | **1,936** | **3,257** |

Source: Pricefinder (2020)

### C.3.4 Median Price per Square Metre

In the past ten years, the median sales price per square metre for improved property in Ipswich City by industrial area is as follows:

- Bundamba: Median sales price of $420.54 per square metre
- Swanbank/New Chum: Median sales price of $32.99 per square metre
- Wulkuraka/Karrabin: Median sales price of $91.88 per square metre
- Yamanto: Median sales price of $204.27 per square metre
- Ebenezer: Median sales price of $46.60 per square metre
- Carole Park: Median sales price of $452.68 per square metre
- Redbank Plains: Median sales price of $301.16 per square metre
- Balance of Industrial Land: Median sales price of $379.30 per square metre.

The table below summarises the median sales price per square metre for improved property sales within Ipswich City's industrial zoned land between 2009-10 and 2019-20.

**Median Sales Price per Square Metre ($ per sqm) Improved Land – Ipswich City, 2009-10 to 2019-20**

| | Bundamba | Swanbank/ New Chum | Wulkuraka/ Karrabin | Yamanto | Ebenezer | Carole Park | Redbank | Balance |
|---|---|---|---|---|---|---|---|---|
| 2009-10 | $15.71 | - | - | - | - | $567.72 | - | $464.67 |
| 2010-11 | - | - | - | - | - | $393.98 | - | - |
| 2011-12 | $346.50 | - | - | $560.05 | - | - | $301.16 | - |
| 2012-13 | - | - | - | - | - | $772.06 | - | $227.96 |
| 2013-14 | - | - | - | $384.52 | - | - | - | - |
| 2014-15 | - | $142.20 | - | $67.88 | - | $597.51 | - | $378.60 |
| 2015-16 | - | - | - | $180.19 | - | $395.78 | - | $239.76 |
| 2016-17 | $579.82 | - | $91.88 | $152.86 | - | $447.76 | - | $380.00 |
| 2017-18 | $382.70 | $39.07 | $70.43 | $326.81 | - | $449.86 | - | $401.26 |
| 2018-19 | - | $23.49 | - | - | $46.60 | $541.49 | - | $407.94 |
| 2019-20 | $511.62 | $204.74 | $1,485.16 | $218.56 | - | $438.81 | - | $73.83 |
| **Median** | **$382.70** | **$90.63** | **$91.88** | **$218.56** | **$46.60** | **$449.86** | **$301.16** | **$379.30** |

Source: Pricefinder (2020)

### C.3.5 Sales by Lot Size

The analysis also considered improved industrial property sales volume by lot size category, which have been amalgamated for the 2009-10 to 2019-20 period. Over this period there were 116 improved industrial property sales, with sales concentrated in lots in the 2,000-4,999sqm range (44 sales) and in lots between one and five hectares (21 sales). Lots sized less than 1,000sqm and lots greater than five hectares recorded four and 16 sales, respectively.

The following table reports the improved industrial property sales by lot size category between 2009-10 and 2019-20.

**Volume of improved industrial property sales, by lot size, Ipswich City, 2009-10 to 2019-20**

| Lot Category | Bundamba | Swanbank/ New Chum | Wulkuraka/K arrabin | Yamanto | Ebenezer | Carole Park | Redbank Plains | Balance |
|---|---|---|---|---|---|---|---|---|
| <1,000sqm | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 3 |
| 1,000-1,999sqm | 1 | 0 | 0 | 2 | 0 | 1 | 1 | 11 |
| 2,000-4,999sqm | 2 | 0 | 0 | 5 | 0 | 22 | 0 | 15 |
| 5,000-9,999sqm | 1 | 1 | 0 | 1 | 0 | 12 | 0 | 4 |
| 1-5ha | 3 | 2 | 3 | 1 | 2 | 7 | 0 | 3 |
| 5ha+ | 3 | 4 | 0 | 0 | 0 | 1 | 0 | 4 |
| **Total** | **10** | **7** | **3** | **10** | **2** | **43** | **1** | **40** |

Source: Pricefinder (2020)

## C.4 Take up of Vacant land

The take up of land is considered to have occurred when a vacant parcel of land is developed, and a land use activity is commenced on the site. Between 2009-10 and 2019-20, the take up of vacant industrial land within Ipswich City amounted to 170.3 hectares or 15.5 hectares per annum. Take-up over the last ten year was largely concentrated in the Swanbank and Carole Park industrial areas. Over the last ten years, there was no clear trend in industrial land take up in Ipswich City. Industrial land take up was highest in 2018-19 compared other years analysed. The following table reports the take up of vacant industrial land within Ipswich City as well as the average take up across various time periods.

**Take up of vacant industrial land, Ipswich City, 2009-10 and 2019-20**

| Year | Take Up (ha) |
|---|---|
| 2009-10 | 31.0 |
| 2010-11 | 2.2 |
| 2011-12 | 3.7 |
| 2012-13 | - |
| 2013-14 | 21.4 |
| 2014-15 | 37.2 |
| 2015-16 | 17.8 |
| 2016-17 | 2.2 |
| 2017-18 | 6.8 |
| 2018-19 | 42.2 |
| 2019-20 | 5.8 |
| **Total** | **170.3** |
| **One- Year Average** | **5.8** |
| **Three- Year Average** | **18.3** |
| **Five-Year Average** | **15.0** |
| **Ten- Year Average** | **15.5** |

Source: Pricefinder (2020)

## C.5 Summary

From 2009-10 to 2019-20, there were an estimated 231 industrial property sales in Ipswich City, comprising of 115 vacant industrial land sales and 116 improved industrial property sales. Industrial sales activity was largely concentrated within the Carole Park, Bundamba, and Swanbank/New Chum industrial precincts.

Over this period, vacant industrial land in Ipswich City median sale price per square metre ranged from $3.72 per square metre in the Ebenezer industrial area to $241.70 per square metre in Carole Park industrial area. Median allotment size of vacant land sales was highest in Ebenezer and Swanbank/New Chum, achieving median allotment size of 393,790sqm and 171,007sqm, respectively. Whereas, improved industrial properties median sale price per square metre ranged from $46.60 per square metre in Ebenezer (although this was based on two sales) to $452.68 per square metre in Carole Park industrial area. Median industrial property allotments were highest in Swanbank/New Chum and Wulkuraka/Karrabin achieving median allotment size of 107,000sqm and 17,721sqm, respectively.

Historically, take up rates of vacant industrial land have been significant in Ipswich City, with 170.3 hectares of vacant land have taken up over the last ten years, representing an average of 15.5 hectares per annum. Noticeably, take up was highest in 2018-19 with 42.4 hectares taken up.

# Appendix D Micro-economic and Macro-economic Trends Influencing the Future of Industry

# Micro-economic and Macro-economic Trends Influencing the Future of Industry

The purpose of the industrial trends analysis is to identify existing and emerging industry trends which might have implications for land use planning of industrial and other employment areas within Ipswich City. Not all trends are likely to have explicit consequences for land use planning, but an understanding of those trends might provide useful context to policy makers. In the last five years, there has been significant interest among certain groups to identify 'megatrends' that might influence our community globally and locally. There are several megatrends reports in the public domain. While these reports typically describe different megatrends, a summary review of megatrends identified highlights some consistent themes. Through significant market research, the sections below detail macro and microeconomics trends which have been identified as influencing the future of industry and productive places.

## D.1 Macro-Economic Trends

The macroeconomic trends detailed in this section are as follows:

- **Globalisation and changes in trade policy:** how the interdependence of economies affects trading patterns and the competitiveness of industrial sectors in Australia
- **Shifts in Industry Competitive Advantage:** changes which may arise from COVID-19. For example, potential shifts to onshoring reinforcing perceptions of Australia as a safe and clean manufacturer and potential impacts on skilled migration
- **Emerging Megatrends:** a broad range of megatrends which will shape industrial workforces around the world. The most significant trends include:
    - **Changes in Human Capital Requirements:** changes to the amount of human labour required in industry and the consequences of having a higher skilled, knowledge intense workforce overall
    - **Technological Growth:** exponential growth in technological capability through the Internet of Things (IoT), industry 4.0 and eCommerce
    - **Emergence of Advanced Logistics:** the integration of technology in the supply chain and how it can impact industry
    - **Porous Boundaries:** the boundaries associated with more flexible and agile labour markets reinforcing the project based nature of advanced manufacturing
    - **Reshaping of the Workforce:** increases in female workforce participation in addition to second and third career options for an aging population having an impact on how productive places operate
    - **Increasing Knowledge Intensity:** increases in the volume of knowledge-based workers across the economic profile, including industry and the associated embedding of design in manufacturing and logistics
    - **Increasing expectations around 'soft factors':** this pertains to sustainability, organics, provenance, workplace flexibility and workforce expectations.

### D.1.1 Globalisation and Changes in Trade Policy

Globalisation and changes in trade policy can have an effect on all levels of industrial and non-industrial industries as these changes to the global marketplace can affect the price of manufacturing and distributing goods and/or services.

## Globalisation

Globalisation is the process by which business, organisations or entire countries develop international influence or begin to operate on an international scale. Globalisation has been greatly accelerated due to advancements in communication technologies which improve productivity and reduce the cost of operating internationally. For Australia, bilateral economic relationships significantly shape our economy. Within Queensland, global relationships are also significant to generating State income and sourcing manufactured products.

The table below shows how trading relationships have evolved in the space of fifteen years. China has become the most significant trading partner for both Queensland and Australia between 2004 and 2019, while fifteen years ago it was the third most significant. Other significant shifts include India, Malaysia and Taiwan for Queensland; and Thailand, India, Malaysia and Singapore for Australia.

### Most significant trading partners, Queensland and Australia-2004 and 2019

| Rank | Queensland | | Australia | |
|---|---|---|---|---|
| | **2004** | **2019** | **2004** | **2019** |
| **1** | Japan | China | Japan | China |
| **2** | United States of America | Japan | United States of America | Japan |
| **3** | China | South Korea | China (excludes SARs and Taiwan) | United States of America |
| **4** | South Korea | India | South Korea | South Korea |
| **5** | New Zealand | United States of America | New Zealand | United Kingdom |
| **6** | India | Malaysia | United Kingdom | Singapore |
| **7** | Malaysia | Taiwan | Germany | Malaysia |
| **8** | Taiwan | Thailand | Singapore | Thailand |
| **9** | Papua New Guinea | Vietnam | Malaysia | India |
| **10** | Indonesia | Papua New Guinea | Taiwan | Taiwan |

Source: Derived from ABS (various years) International Trade in Goods and Services, Australia Catalogue No. 5368.0

The emergence of trade liberalisation and integrations with developing countries such as Brazil, Russia, India, China (BRICs) and Columbia, Indonesia, Vietnam, Egypt, Turkey and South Africa (CIVETS) is a global trend which seeks to utilise high returns to labour. These represent emerging economies, where rapid economic growth is anticipated to generate demand for imports and hence result in increased significance of these groups in terms of trading relationships. Australia's trading relationships with these countries are heavily influenced by economic convergence and the Country seeks to benefit from trading arrangements with these countries as there is a continual increase of imports and exports over time.

The tables below below summarise the ranking of BRICs and CIVETSs in terms of value of merchandise trade with Queensland and Australia for 2004 and 2019. Comparing the ranking between 2004 and 2019 illustrates how these economies have become more (or less) significant in terms of their trading relationship with Queensland and Australia.

Both tables highlight which trading partners became more significant between 2004 and 2019. Notably, Queensland has experienced a more significant strengthening of trading ties with the BRIC and CIVETS economies than Australia. It is reasonable to assume a strengthening of trade relationships will continue between Queensland and the BRIC and CIVETS economies, however in the short-term trading relationships with Turkey and Egypt are likely to flounder due to geopolitical difficulties in the Middle East.

### Significance of BRICs (ranked) in terms of trading relationships with Queensland and Australia, 2004 and 2019

| | Queensland | | Australia | |
|---|---|---|---|---|
| | **2004** | **2019** | **2004** | **2019** |
| Brazil | 20 | 19 | 33 | 33 |
| Russia | 46 | 30 | 56 | 43 |
| India | 6 | 4 | 13 | 9 |
| China | 3 | 1 | 3 | 1 |

Note: Shading of cells represents a positive change in the trading relationship resulting in a lower ranking.
Source: Derived from ABS (various years) International Trade in Goods and Services, Australia Catalogue No. 5368.0

### Significance of CIVETSs (ranked) in terms of trading relationships with Queensland and Australia, 2004 and 2019

| | Queensland | | Australia | |
|---|---|---|---|---|
| | **2004** | **2019** | **2004** | **2019** |
| Colombia | 85 | 69 | 79 | 77 |
| Indonesia | 10 | 11 | 11 | 14 |
| Vietnam | 15 | 9 | 18 | 13 |
| Egypt | 61 | 61 | 37 | 56 |
| Turkey | 35 | 34 | 41 | 36 |
| South Africa | 25 | 25 | 20 | 29 |

Source: Derived from ABS (various years) International Trade in Goods and Services, Australia Catalogue No. 5368.0

Mexico is also frequently cited as a converging economy in economic development literature. While becoming a more significant trading partner with both Queensland and Australia over the last fifteen years, Mexico is pursuing the strengthening of trade relationships in the northern hemisphere and throughout South America ahead of relationships within Oceania.

While rarely mentioned in international trade literature, both Bangladesh and Poland are anticipated to experience strong growth over the medium to long term. Both have become increasingly significant in terms of trade with both Queensland and Australia over the last fifteen years and warrant ongoing monitoring.

Within the Ipswich context, there is a case to be made for focusing on building trading and brand awareness of Ipswich among the emerging economies. The emerging economies in South-East Asia including the members of ASEAN[2], who are embarking on closer economic integration, have experienced large population, strong economic growth and development of efficient infrastructure. This presents Ipswich with an opportunity to further expand on existing partnerships and enter new markets.

Queensland's main exports are coal, natural gas and beef products. These key exports typically originate from outback/rural Queensland. Therefore, creating accessible freight and logistics networks from the beginning of the supply chain to connect with ports around the country will be integral to cater for increased exports to developing economies. Similarly, China supplies Australia with more goods than any other country, accounting for 19.6% of all Queensland imports in the 2017-18 financial year. With increased trade liberalisation SEQ will need the ability to disperse imported goods efficiently from the Port of Brisbane to continue to be internationally competitive. This may have flow on effects to industrial areas in Ipswich City as Ipswich continues to act as a key link in the SEQ freight network. Additionally, the proposed intermodal terminal at Willowbank in Ipswich City would strengthen the City's importance to the distribution of goods both nationally and internationally.

[2] ASEAN Members include Indonesia, Thailand, Malaysia, Philippines, Singapore, Vietnam, Myanmar, Cambodia, Laos and Brunei.

Over time efficient logistics and freight networks will become increasingly valuable to domestic and international trading partners. Therefore, industries supporting these networks will be important to both Ipswich City and SEQ.

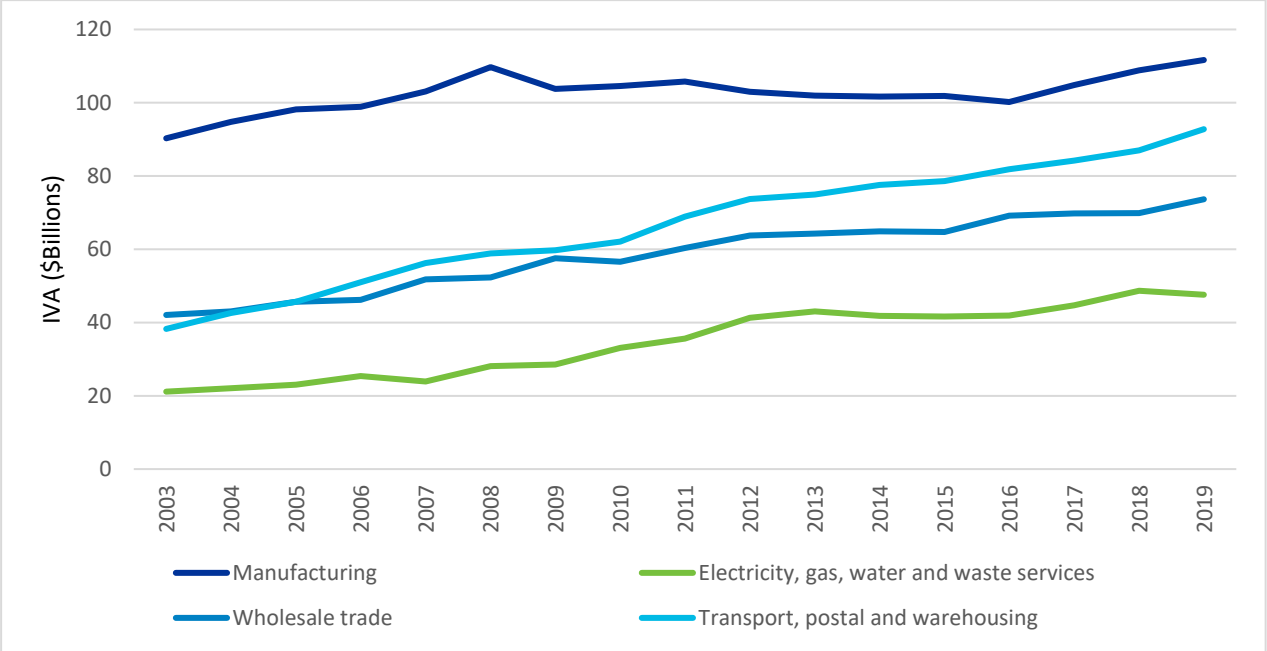
## Changes in Trade Policy

Change in trade policy can significantly impact the value and quantity of the export of Australian goods to the trade partners detailed in the preceding section. A way of measuring the impact of changes in trading conditions resulting from policy changes is to evaluate the value added to the Australian economy by industry. For this assessment the manufacturing industry is of the most interest and has been benchmarked to other industrial sectors.

The industry value added (IVA) of the Australian manufacturing sector experienced sustained growth from the early 1990s to the mid to late 2000s. Manufacturing IVA has declined in the 2008 to 2016 period but has shown signs of recovery beyond this period (refer to the figure below).

Meanwhile, electricity, gas, water and waste, services IVA, wholesale trade IVA and transport, postal and storage IVA have, by and large, maintained a positive trajectory over the last 17 years.

**Industry Value Added (IVA), Australia, 2003 to 2019**

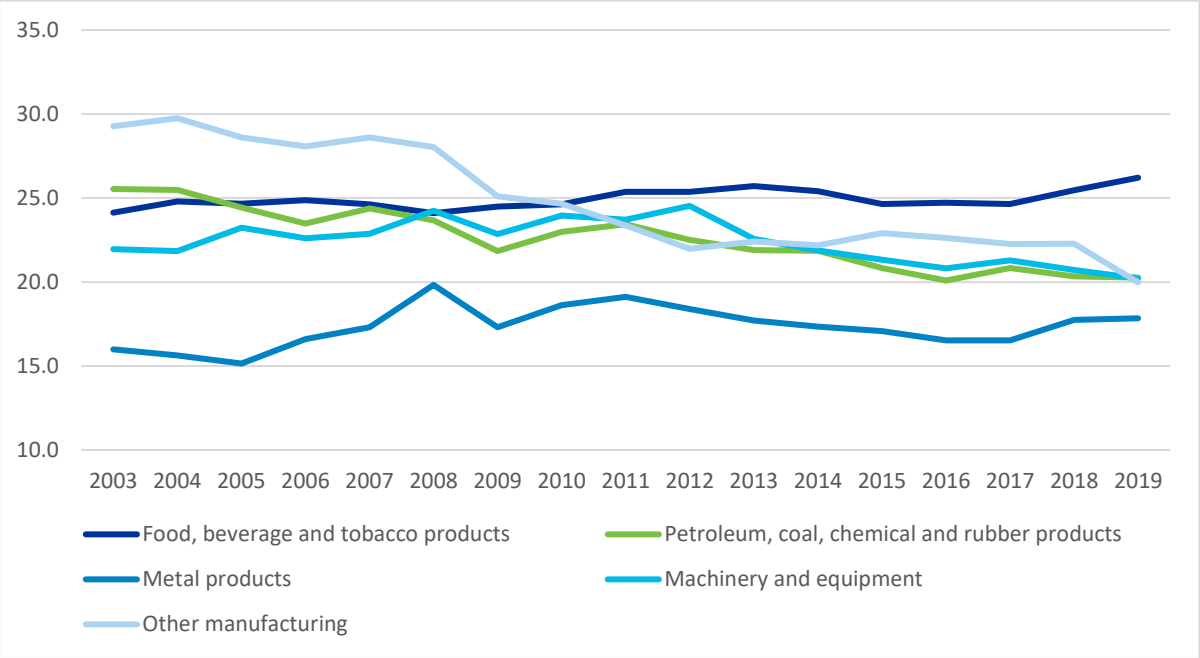



Source: ABS (2013b) Australian National Accounts: National Income, Expenditure and Product, July 2020 Catalogue No. 5206.0

While there has been a stagnation in the performance of the manufacturing sector in terms of industry gross value added over time as shown in the figure above, a decomposition of the manufacturing sector's performance by sub-sector (as shown in the figure below), indicates that slowing growth in manufacturing's performance over time can predominantly be attributed to the significant scaling back of production in the 'textile, clothing and other manufacturing' sub-sector, and to a lesser extent the 'wood and paper products manufacturing' sub-sector. The decline of these sub-sectors is mostly attributable to a lack of competitiveness and the removal of trade and tariff protections.

Whilst there has been an uplift in the industry value added for the food, beverage and tobacco products manufacturing sub-sector since 2017, growth in this sector may be subdued in 2021 due to China's trade sanctions on Australian agriculture, with not all primary producers able to find alternative markets for their produce.

**Industry value added by manufacturing sub-sector, Australia, 2003 to 2019**




Source: ABS (2013b) Australian National Accounts: National Income, Expenditure and Product, July 2020 Catalogue No. 5206.0

The manufacturing industry faced significant pressure after 2008-2009 because of appreciation in the Australian dollar as a response to rising demand for Australian resource exports. This surge in demand for Australian resources, principally iron ore and coal (predominantly coking coal), was precipitated by significant and rapid urbanisation in China, and to a lesser extent India and several smaller South-East Asia nations.

Although value added from manufacturing as at 2017-18 was higher than value added in 2007-08 in Ipswich City, the contribution of manufacturing as a proportion of all industries has declined from 18.2% in 2007-08 to 14.7% in 2017-18.

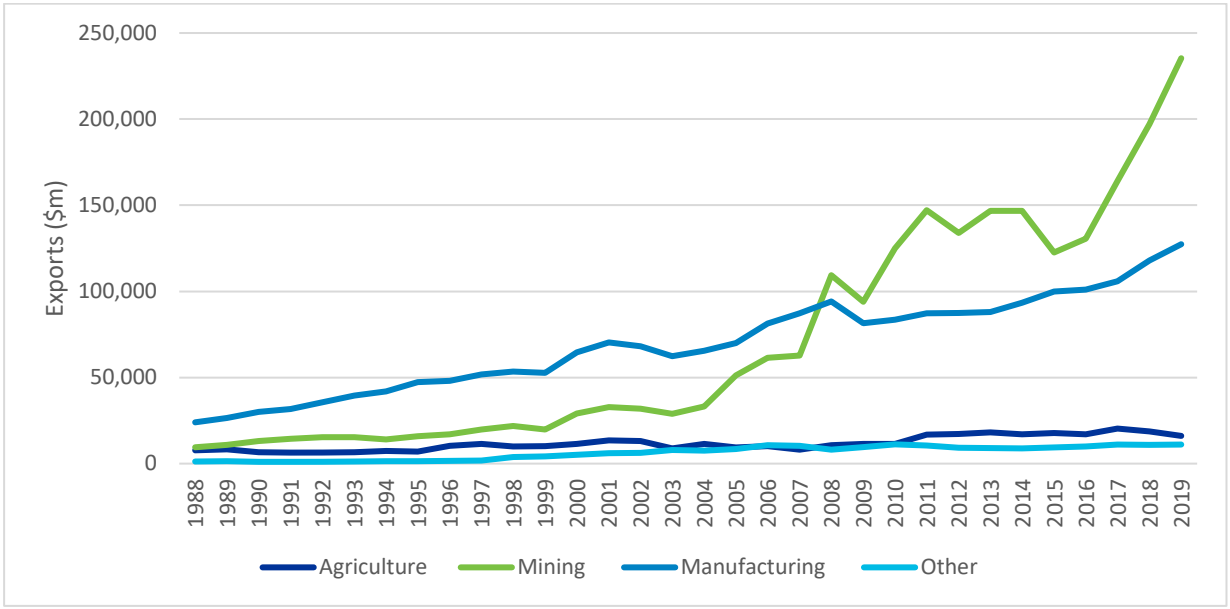
**Value Added by 1-Digit Manufacturing Sector, Ipswich City, 2007-08 to 2017-18**

| 1-Digit Sector | 2007-08 | 2008-09 | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Value Added ($m)** | | | | | | | | | | | |
| Manufacturing | 1,048.40 | 1,002.70 | 1,035.70 | 1,052.70 | 1,179.90 | 1,156.20 | 1,122.00 | 1,085.10 | 1,124.20 | 1,111.30 | 1,150.20 |
| **% of all Industries** | | | | | | | | | | | |
| Manufacturing | 18.2% | 16.8% | 17.0% | 16.6% | 17.4% | 16.7% | 15.6% | 15.0% | 15.0% | 14.5% | 14.7% |

Source: Economy ID, 2019

While manufacturing IVA in Australia has experienced a sustained decline since around 2008, the value of manufacturing exports has experienced positive growth between 2009 and 2019 (as shown in the figure below). The implication that can be drawn from this is that domestic manufactures are being increasingly replaced by imports, at a greater rate than the growth in exports.

### Australian Merchandise Exports, 1988 to 2019

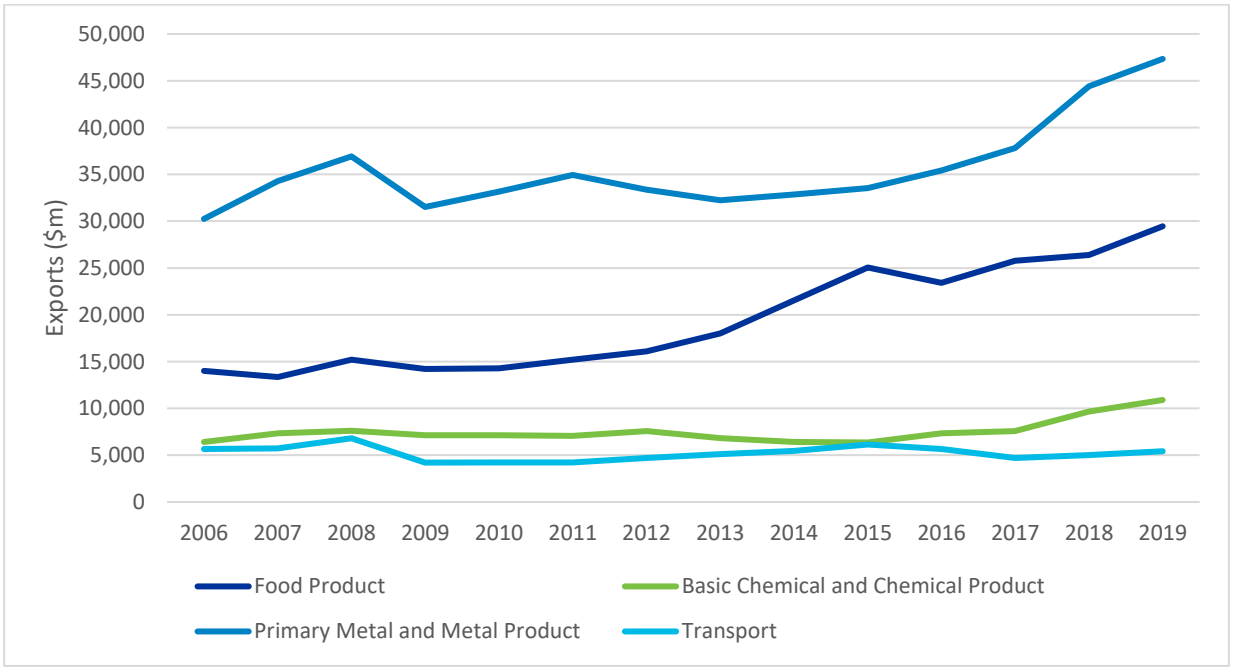



Source: ABS (2016) 5368.0 International Trade in Goods and Services, Australia

The figure below provides a breakdown of Australian manufacturing exports at the sub-sector level. While transport equipment and chemical exports have remained relatively stable over the past ten years, exports of machinery and equipment and food have shown growth. Growth in machinery and equipment exports occurred mainly between 2006 and 2009, before softening and eventually recovery. However, food exports have risen sharply over the past three to four years.

Trade exposed industries as discussed here including food, machinery and equipment manufacturing will continue to explore opportunities to access export opportunities and as such industrial areas with good access to rail and road distribution networks.

### Breakdown of Australian manufacturing exports, 2006 to 2019




Source: Derived from ABS International Trade in Goods and Services, Australia Catalogue No. 5368.0 (2016)

Locally, Ipswich is the historical manufacturing centre in SEQ (City of Ipswich, 2020). Businesses of note in the advanced manufacturing sector in Ipswich City include:

- Aquatec Maxon (equipment manufacturer)
- Capral Aluminium (metal products)
- JA Evans & Co (steel fabrication)
- Louvreclad (building materials)
- JBS Dinmore (food industry) and
- Hans Group (farm equipment).

Similarly, Ipswich City has long been a major processing centre for meat, poultry, fine foods, beverages, smallgoods, and packaged food. The city plans to establish itself as a major production and distribution centre to both national and international food markets. Business of note in the food and agribusiness sector in Ipswich City include:

- Sunny Queen Australia (Poultry)
- JBS Dinmore (Beef)
- Adam's Smallgoods (Smallgoods)
- Aussie Game Meats (Game meat) and
- Trisco Foods (Packaged food).

Food production and equipment manufacturing/fabrication are likely to continue to be a high value industry for the region. Additionally, these industrial activities are typically activities which require large labour inputs and therefore employment opportunities.

### D.1.2 Shifts in Industry Competitive Advantage

COVID-19 has had a dramatic impact on every industry in Australia. However, restrictions on retail, hospitality and travel have detrimental effect for some industries and created opportunities for others. This section highlights some of the key changes in competitive advantage resulting from COVID-19.

#### On-shoring

In recent years, there has been significant commentary in relation to the decline of manufacturing within the Queensland and Australian context, with much of the responsibility for this having been directed at the sustained strength of the Australian dollar between 2010 and 2013. However, some research suggest that COVID-19 could reshape manufacturing as companies re-examine their supply chains and restructure flows and networks to avoid over reliance on regions.

The economic shut down induced by COVID-19 pandemic has highlighted the vulnerability of Australia's supply chains and over-dependence on goods produced overseas. In the 1960s, Australia's manufacturing industry contributed to approximately 30% of GDP, however, prior to the COVID-19 pandemic, the manufacturing industry contributed to just 6% of GDP. However, the COVID-19 pandemic has seen domestic companies re-examine their supply chains, restructure flows and networks, build resilience and avoid over-dependency on particular regions (KPMG, 2020). The post-pandemic economy represents an opportunity for Australian manufacturing industry to remerge.

Since the emergence of China as global manufacturing power, Australia and many other nations have increasingly relied on supply chains out of China. However, the sudden economic shutdown caused by the global pandemic has highlighted how over-reliant Australia is on the supply chains out of China (Harcourt, 2020). With the COVID-19 virus impacting China first, Australian supply chains were disrupted significantly because of the limited access to essentials for domestic manufacturing. Among the supply chains disrupted was medical supplies, which were essential at a time of a global pandemic. The disruption in the supply chain saw domestic manufacturing businesses such as Made by

Meez (a clothing label from Carole Park) shift their manufacturing (of dresses) to provide hospital essentials (i.e. scrubs) (Richter, 2020). This illustrates Australia's manufacturing industry is responsive and ready for positive disruptions.

In response to supply chain disruptions, the Federal Government set up a taskforce focused on expanding Australia's niche manufacturing industry and returning to domestic production of supply chains. However, economists note that Australia's manufacturing industry post COVID-19 should not resemble that of the past. For the future of manufacturing in Australia to be successful, comparative advantage needs to be turned into competitive advantage which is driven by knowledge and ingenuity (Green, 2020). Competitive advantage is achieved not through low-cost production but through 'smart specialisation' in global markets and value chains, with an unrelenting focus on quality, design and innovation (Green, 2020). KPMG research finds Australia's manufacturing resurgence should focus on manufacturing efficient, high-tech goods that Australia needs to be self-sufficient, which includes essential personal protective medical goods and medical technologies (KPMG Global, 2020).

As previously detailed, Ipswich City has historically been a hub of manufacturing for SEQ. This shift towards domestic supply chains to limit impacts from global crises such as COVID-19 could provide a unique opportunity for Ipswich to ramp up manufacturing operations. Additionally, as Ipswich City continues to be a vital part of the SEQ freight network the City has the advantage of manufacturing and distributing within a single precinct.

### Perceptions of Australian Manufacturing

The new era of Australian manufacturing should be supported by clean and sustainable production methods. Accordingly, Ipswich City is working towards a sustainable industrial biotechnology and bioproducts sector (City of Ipswich, 2020). Initiatives currently being researched include developing an Ipswich-based biodiesel plant, waste diversion infrastructure and potential eco-industrial precinct (i.e. industries of the future) as per the Queensland Biofutures 10-Year Roadmap (2016) released by the Queensland Government. Notably, funding has been allocated to these industries of the future. Several businesses of note are in alignment with these future industries, including:

- NuGrow (composting)
- Chip Tyre (repurposing)
- Century Yuasa (innovation in batteries)
- Ipswich City Council (resource recovery)
- Aquatec Maxcon (waste diversion) and
- Energy creation.

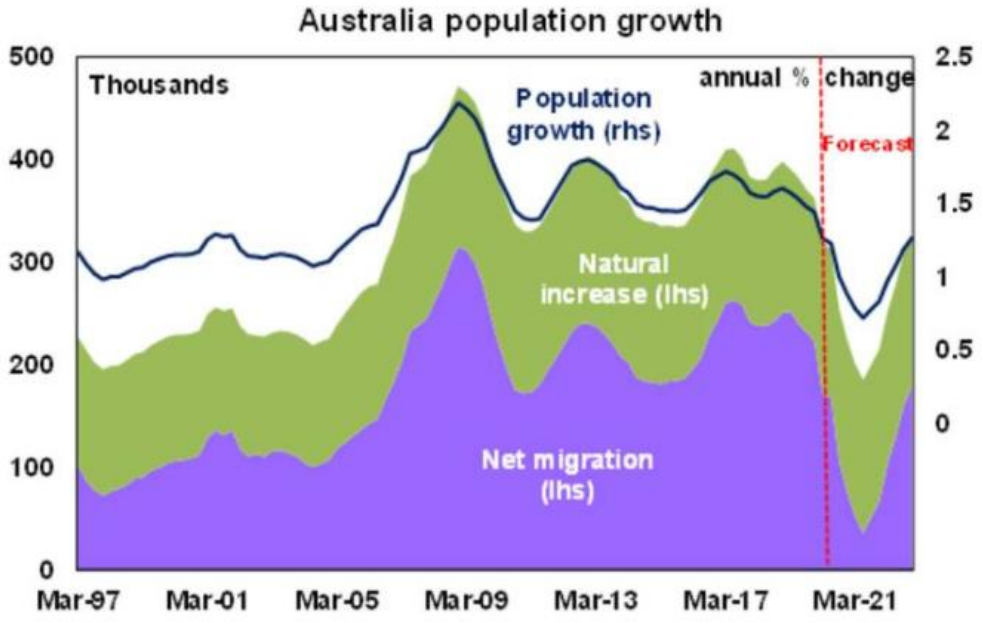
In terms of renewable energy, Ipswich City Council has recently approved a commercial scale solar farm to be built in Karrabin (Heenan, $80m solar farm approved for Ipswich, 2020). The $80 million solar farm, spanning 50 hectares of land, is expected to generate 50 megawatts of clean energy at peak production (enough to power 30,000 homes). The solar farm will allow Ipswich to grow its renewable energy sector, creating a more sustainable future for the local community. Relevantly, greater focus on recycling and upcycling of goods is also expected in the new era of domestic manufacturing (KPMG, 2020).

### Skilled Migration

Another significant shift resulting from COVID-19 has been the reduction in migration to Australia. Migration into Australia has collapsed during the COVID-19 pandemic despite the skilled labour visa remaining unaffected by the pandemic (Visa Australia, 2020). It is expected that once borders are entirely re-opened, many foreigners will choose to avoid migration amid concerns about job prospects during a recession in Australia. Migration in Australia accounts for a considerable proportion of population growth with net overseas migration representing 60.0% of Australia total growth on average (National Housing Finance and Investment Corporation, 2020). However, from March 2020 to March 2021 there is anticipated to be a significant decrease in both migration and natural growth as illustrated in

Figure 5-5 below. Additionally, analysis suggests that the overseas migration to Australia could fall by 85.0% in the 2020-21 financial year (National Housing Finance and Investment Corporation, 2020).

**Australian Population Growth 1997 to 2021 (forecast)**




Source: IMF and AMP Capital (2020)

Net overseas migration has accounted for 9.7% of population growth in Ipswich City in 2019, significantly lower than both SEQ and Queensland. This highlights that Ipswich City is less likely to be significantly impacted by COVID-19 than SEQ and Queensland.

Interestingly, more than half of population growth in the past three years in Ipswich City can be attributed to net internal migration, with these shares being higher than the SEQ and Queensland averages. The natural increase share in Ipswich City was broadly in line with SEQ in 2019, with Queensland recording a higher natural increase share.

The table below summarizes the components of population growth in Ipswich City relative to SEQ and Queensland between 2017 and 2019.

**Components of Population Growth, Ipswich City, SEQ and Queensland, 2017 to 2019**

| | Ipswich City | | | SEQ | | | Queensland | | |
|---|---|---|---|---|---|---|---|---|---|
| | 2017 | 2018 | 2019 | 2017 | 2018 | 2019 | 2017 | 2018 | 2019 |
| **Number** | | | | | | | | | |
| Natural Increase | 2,301 | 2,435 | 2,570 | 22,629 | 22,111 | 22,763 | 30,607 | 29,356 | 29,882 |
| Net Internal Migration | 3,223 | 3,957 | 5,317 | 25,671 | 30,780 | 27,837 | 17,795 | 24,698 | 22,831 |
| Net Overseas Migration | 820 | 746 | 852 | 28,629 | 23,223 | 27,169 | 34,075 | 27,741 | 32,373 |
| Population Growth | 6,344 | 7,138 | 8,739 | 76,929 | 76,114 | 77,769 | 82,477 | 81,795 | 85,086 |
| **% of Total** | | | | | | | | | |
| Natural Increase | 36.3% | 34.1% | 29.4% | 29.4% | 29.0% | 29.3% | 37.1% | 35.9% | 35.1% |
| Net Internal Migration | 50.8% | 55.4% | 60.8% | 33.4% | 40.4% | 35.8% | 21.6% | 30.2% | 26.8% |
| Net Overseas Migration | 12.9% | 10.5% | 9.7% | 37.2% | 30.5% | 34.9% | 41.3% | 33.9% | 38.0% |

| | Ipswich City | | | SEQ | | | Queensland | | |
|---|---|---|---|---|---|---|---|---|---|
| | 2017 | 2018 | 2019 | 2017 | 2018 | 2019 | 2017 | 2018 | 2019 |
| Population Growth | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% |

Source: ABS Regional Population Cat. 3218.0 (2019)

Major economic impacts resulting from a decline in migration to Australia include:

- Less skilled workers
- A decline in labour force participation rates
- Loss of younger population (i.e. persons in the working age range – 15 years and over)
- A fall in GDP growth and
- A fall in housing demand.

Migration is central to Australia's future prosperity (Migration Council Australia, 2016). Migrants are on average more highly educated than existing residents (this is particularly the case for migrants who initially enter Australia on a student visa) and as such, add more specialised skills to the Australian economy. Relevantly, migration also adds younger workers who have higher participation rates, mitigating the effects of Australia's ageing population.

At a macro-level, future GDP growth is expected to be lower due to a lack of skilled labour (stemming from a reduction in migrant intake). Forecasts prepared by the Queensland Government reveal that GSP growth is expected to be relatively flat in 2019-20 (growth of 2.50%) and 2020-21 (growth of 2.75%). These revised growth forecasts will likely trickle down to the local level (GRP will likely shrink as Ipswich City contributed 3.0% to Queensland GSP in 2017-18). Section 2.2 discusses in greater detail the historic real GRP in Ipswich City and GSP for Queensland.

Migration is also a key driver for housing construction across the country (and to a further extent, demand for industrial demand to support consumer demand for goods and services). The fall in migration attributable to COVID-19 is anticipated to result in new housing supply to exceed new housing demand by approximately 127,000 dwellings in 2021 and 68,000 dwellings in 2022, with the oversupply concentrated within Greater Sydney and Greater Melbourne, the two key entry points for overseas migrants to Australia (National Housing Finance and Investment Corporation, 2020). As outlined in Table 5-5, Ipswich City is relatively less reliant on overseas migrants than the broader region and the state and hence has not been significantly impacted by the reduction of overseas migration to Australia, with a significant uplift in net internal migration in 2019, likely attributable to the relative availability of greenfield residential opportunities.

The HomeBuilder grant, which provided owner-occupiers (including first home buyers) $25,000 to build a new home or to substantially renovate an existing home, assisted the residential construction market by encouraging the commencement of new home builds and renovations (Australian Treasury, 2020). However, this has manifested in supply chain shortages and building product delays, which has increased delays in home construction, and negatively impacting housing affordability (both in terms of median house prices and median weekly rents).

### D.1.3 Emerging Megatrends

This section details some of the emerging megatrends which are most likely to impact industrial actives at all levels Australia wide and the consequent potential impacts for Ipswich City.

#### Changes in Human Capital

Human capital constitutes the skills, knowledge and experience possessed by an individual, or by a workforce. Globally there is a shift towards higher skilled workforces as advances in technology eliminating the need for manual labour. McKinsey and Company (2017) estimated that by 2030 in approximately 60.0% of all occupations, at least one-third of the activities could be automated therefore leading to a significant shift in the amount of human capital required within certain occupations. Occupations and industries which are most susceptible to automation include physical or manual labour-intensive work such as operating machinery or preparing fast food. However, automation is anticipated

to have a lesser impact on occupation which require people management or social interactions (Mckinsey and Company, 2020).

However, this shift from manual labour to automation does not mean an overall decline in employment across manual occupations and industries but it does mean there will need to be significant reskilling and/or upskilling of the existing workforce. World Economic Forum (2018) estimated that by 2022 at least 54.0% of all employees would require reskilling or upskilling, with the following skills identified as a valuable focus:

- Analytical thinking
- Innovative thinking
- Active learning/learning strategies
- Technology design and
- Programming.

Additionally, the World Economic Forum suggests that as a result of the shift towards automation, policy-makers, regulators and educators will need to play a significant role in assisting displaced works to repurpose their skills or acquire new skills. This will require a large investment in the development of new agile learning practices through improvements to the education and training systems in addition to updating labour policies in order to reflect the changes occurring in the fourth industrial revolution.

The reskilling and upskilling of workers who are currently performing manual tasks will lead to an increasing proportion of the workforce being considered highly-skilled labour. At a business level, having highly skilled employees increases productivity, innovation and translates to a tangible competitive advantage (Expert360, 2019). In fact, McKinsley and Company (2017) found that high-performing staff are on average 400.0% more productive than average performance staff. Sustained increases in productivity allow businesses to have a higher output and allocate more resources to innovation and growth strategies.

Within a knowledge intensive precinct, the proportion of skilled labour is already significant. However, with continued upskilling of manual workers within businesses, these knowledge centric precincts will continue to become more productive and innovative over time. The same is true for industrial precincts which have historically been manual labour intensive. Moving forward, industrial precincts will need to cater for increases in skilled labour (e.g. office or commercial space and internet connectivity) whilst reducing the floor area which caters for manual workers.

Cities also benefit from a highly skilled workforce as the skills of city's population are one the strongest indicators of its economic performance (Magrini, 2019). Therefore, maintaining a highly skilled workforce increases the cities overall output and positions the city as an attractive investment location.

Ipswich City experienced a significant growth in the proportion of the workforce holding a non-school qualification (further detailed in Section 3). This trend demonstrates that the City is already signifying a shift towards a higher skilled workforce and therefore must continue to provide lower-skilled workers with opportunities to upskill. Encouraging the upskilling of employees at the City level enables precincts and businesses to remain competitive in an increasingly automated marketplace. Additionally, in the future the education and training industry will become increasingly valuable as effective and diverse education systems will become integral to facilitating the mass upskilling of the Australian labour force.

At a sectoral level, upskilling the existing workforce in manufacturing, transport and warehousing and information and technology industries, Ipswich City could diversify the industrial profile of the area and avoid a high proportion of the workforce having redundant skills as advanced manufacturing becomes increasingly prevalent.

### Technological Growth

Growth in technological capability through the Internet of Things (IoT) Industry 4.0 (or the fourth industrial revolution) and e-commerce have led to exponential improvements in productivity and innovation for businesses and individuals alike.

The IoT is a system of interrelated computing devices, mechanical and digital machines which can transfer data over a network without requiring human intervention. A report titled 'Shifting Patterns' from PWC identified that the IoT as being an integral part of technological advancements in the freight and logistics space. For freight networks, the benefits can include improved supply chain transparency/provenance, safety, efficiency, and environmental sustainability due to efficient resource planning. The interaction between the IoT and Industry 4.0 is symbiotic, as each sector pushes the other to innovate.

Industry 4.0 is the emergence of digital manufacturing (smart factories), which means smart networking, mobility, flexibility of industrial operations and their interoperability, integration with customers and suppliers and in the adoption of innovative business models. When IoT and Industry 4.0 models work concurrently the entire supply chain is accelerated. The automation involved in manufacturing because of industry 4.0 means less time between primary inputs and the fulfillment process. Throughout this process, the IoT analyses every stage, identifies, and removes inefficiencies, all without any human intervention. When planning future freight and logistic networks, integration of IoT and Industry 4.0 with the infrastructure will ensure that networks are working efficiently.

Both IoT and Industry 4.0 have aided in propelling e-commerce forward as less manual labour is required for order fulfillment. Additionally, with the Shared Economy continuing to thrive, easy to use and innovative digital platforms are altering customer expectations, customers now demand choice, provenance, personalisation, and convenience. Online shopping platforms provide consumers with choice and provide businesses with a significantly larger market than they would otherwise have access to.

These technological advances have significant impacts to every industry, however, within the context of industrial uses, the integration of these technologies in addition to the adoption of e-commerce over the past decade has lasting impacts on the freight and logistics industries. Without the integration of Industry 4.0 and IoT in warehouses or manufacturing facilities, the additional pressure of online fulfilments would add significant complexity to the supply and distribution chains. Most existing warehouses are designed for bulk storage and dispatch of stock as opposed to facilitating individual item picking as required by online fulfillment. Therefore, the design of industrial space to facilitate a range of warehousing facilities is of high importance.

An example of retailers combatting these challenges associated with increases in online purchasing is in the development of Dark Stores as an alternative to bricks and mortar retailers, with expansive store networks (e.g. supermarkets). Instead of the goods being collected from the supermarket by a small truck to fulfil online orders, the goods are loaded at 'dark stores' in industrial areas where they are distributed. Dark stores are basically a supermarket laid out purely for the purpose of online fulfillment. The dark store format relies on freight efficiencies associated with consolidation of online orders in a densely populated environment.

Ipswich City has already implemented new technologies through its Smart City Program for infrastructure use cases, where IoT is used to monitor and control public infrastructure. Some examples of IoT uses that Ipswich City hope to trail in the future include (Peter, 2017):

- Water, waste and lighting management
- Predictive and automated precinct maintenance
- Solar energy, integrated batteries and micro-grid technology
- Video analytics for Safe City and traffic management
- User engagement and urban furniture
- Edge tier, Sensor Network and public Wi-Fi capabilities and
- Data Platform and analytics.

The technology industry will only increase in value in the future, and represents an opportunity for cities with a highly skilled labour force to benefit from the design, manufacturing and the implementation of new technologies.

## Emergence of Advanced Logistics

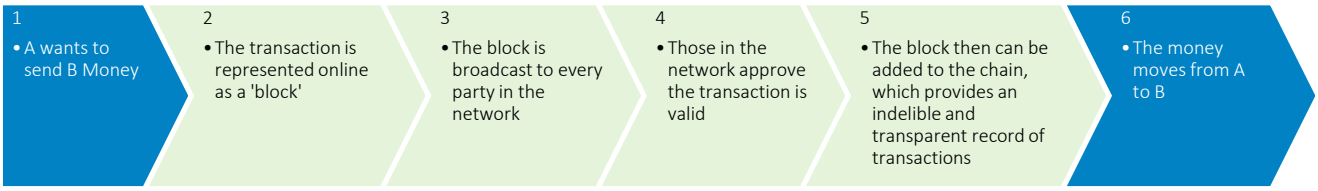
The impact of technology on industry primarily relates to the ongoing integration of plant and equipment as part of cyber-physical networks. These networks help with increasing productivity, and within the context of freight and logistics this means less manual labour and human interaction in addition to fewer stoppages in the distribution chain. This automation is a part of what is known as the Internet of Things (IoT) and Industry 4.0 as discussed in the preceding section.

Key infrastructure to integrate technology with are intermodal terminals. Intermodal terminals are the interface between different transport modes in a freight network and use automated processes to increase the efficiency of freight transfers. In SEQ, there are intermodal terminals located in Acacia Ridge, Tennyson and at the Port of Brisbane, with plans to develop other terminals in West Toowoomba and in Willowbank, Ipswich to cater for sections of inland Rail. The Port of Brisbane has partial integration with automated processes using automated shipping container cranes. However, there is further room for increased efficiencies through technology.

Through the internet of things, advanced logistics can be further propelled using Blockchain. Blockchain technology has been utilised in Australia for over a decade, however the concept and application of today's blockchain is far more advanced and has large efficiency implications for freight and logistics. Blockchain technology is based on a branch of mathematics called cryptography and generates a shared digital ledger which relies on the consensus of a global network of users to operate. The ledger cannot be added to or edited without modifying the entire chain and receiving consensus from the entire network of users. Therefore, malicious inference is almost impossible and data security is ensured.

The figure below below outlines how blockchain authenticates and protects a transaction.

### How blockchain authenticates and protects transactions




Source: Winnesota Regional Transportation Blog, 2017

A major benefit from utilising blockchain in logistics networks is the improved freight tracking. Improvements in freight tracking can reduce inefficiencies in the planning of freight movements and transfers. Freight tracking is also vital to allowing customers to be involved in the supply chain, the availability of product provenance is increasingly important to consumers and will be discussed further in Section 2.1.7. Benefits to logistics providers can also come from blockchain integration with the IoT. Providers can install capacity sensors in vehicles and containers which transmit capacity information to the blockchain and facilitate vehicle-to-vehicle communications.

A promising example of advanced integration is the Moorebank Logistics Park in Sydney. The park has committed to developing a fully automated intermodal terminal solution by 2022. The key point of automation will include automated yard crane, Rail-Mounting Gantry cranes, horizontal transportation equipment and hybrids auto shuttles and their charging stations. SEQ freight networks have an opportunity to use Moorebank as an example of increased efficiency in logistics as a result of technology integration in freight infrastructure.

With the potential Willowbank Intermodal Terminal being developed within Ipswich City, there is an opportunity for the City to position itself with advanced logistics and freight capabilities, which as previously mentioned, is anticipated to be a high value industry in the future. Ipswich City can position itself as offering large greenfield sites, buffered from residential encroachment, with connectivity both via dedicated freight rail and highway connections at a relatively affordable price point relative to other industrial locations in SEQ. These capabilities would increase productivity in the city-wide supply chain, as well as SEQ.

## Porous Boundaries

Porous boundaries, as it relates to business and technology, refers to the growth in the peer-to-peer or freelancing economy. Although this business model has not completely taken off in Australia, it is a significant part of the workforce in other countries, such as the United States. Globally, companies are opting for staffing models which are based around a small number of core staff, with other roles filled by freelance or contract workers. The CSIRO's Tomorrow's Digitally Enabled Workforce (2016) publication identifies that jobs of the future are likely to more flexible, agile, networked and connected.

Improvements in technologies, such as the internet, over the past decade have meant that global communication is increasingly simple in a business setting. This is both a product and a catalyst of globalisation which has influenced increases to the interdependence of companies and countries around the world. The interdependence of companies and countries is aided by the advancements in cloud computing which provides a low cost, secure solution to information sharing instantly. The combined benefit of these trends means that geographically diverse groups can easily and instantly collaborate, meaning that businesses can capitalise on fluid workspaces, flexible working arrangements, and co-working environments (Hajkowicz, et al., 2016).

These kinds of flexible working arrangements encourage greater collaboration and shorter lines of communication which would enable faster decision making. In the industrial context, this can result in increased outsourcing and offshoring of work to have varying specialists participate in the collaboration process, whilst reducing the overhead expenditure resulting from direct staff (Forbes, 2018).

These advances mean that employers require agile workers, whilst employees and contractors are increasingly valuing flexibility in employment agreements. An answer to these issues is increased short-term or project-based employment. Within an industrial context, this could be represented by a group of skilled contractors setting up an advanced manufacturing operation and moving on.

In the context of Ipswich City, this form of agile work represents an opportunity for more advanced manufacturing related employment, whereby employees can collaborate and provide specialist assistance whilst being in Ipswich City to other parts of Australia or globally. This means for growing cities like Ipswich, areas designated to businesses uses need to ensure high speed and reliable internet connection to facilitate connectivity between core employees and otherwise located contractors.

## Reshaping the Workforce

As with many other developed countries, Australia's population is ageing with growing life expectancies. As per 2016 ABS Census Data, the Australian population aged over 65 was projected to nearly double by 2035 to reach 19.4% of the total population and the average life expectancy for men and women is projected to reach 84.9 years, and 87.9 years, respectively (Hajkowicz, et al., 2016). An increasing proportion of elderly persons implies an increasing dependency on the workforce of Australia. The numbers of aged care services and staff will also need to expand considerably to meet the growing demand from an ageing population, therefore the aged care system is likely to need new models of care and adopt new technological solutions in order to meet the expected quantity.

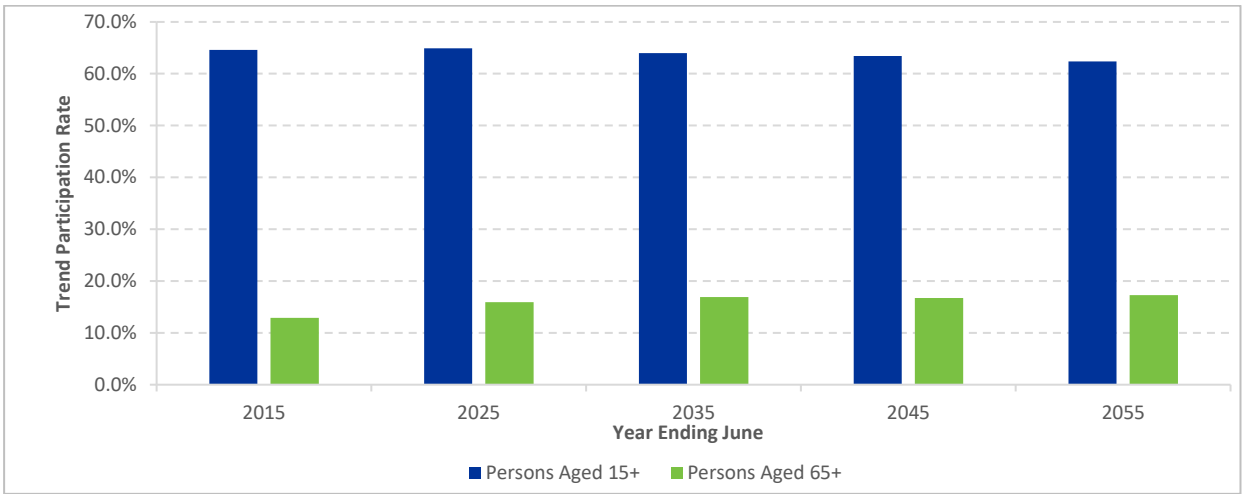
Despite Australians working for longer before retiring (it is estimated the retirement age will increase to 70 years by 2035), it is expected that there will be a significant overall decrease in the participation rate. The reasons behind this decline may pertain to:

- Jobseekers becoming discouraged
- Casualisation of work and
- The increasing potential for technological unemployment.

Nonetheless, estimates from the Intergenerational Report, 2015, outline that the participation rate will continue to rise amongst older Australians.

The figure below outlines workforce participation rate estimates by age group.

**Projected workforce participation rate by age group, 2015 to 2055**




Source: Australian Government: The Treasury (2015)

Working into older age is widely accepted as being more feasible for knowledge workers compared to manual workers who are likely to require complementary technology. Ipswich City is no exception to this trend with population projections for the area suggesting a 5.3% increase in the proportion of residents aged over 65 years between 2016 and 2041.

However, the proportion of persons aged 65 years and over in Ipswich City is anticipated to remain below the state average, with the region continuing to attract younger families, due in part to relative affordable housing opportunities.

Employers in Ipswich City will need to manage a diverse labour force of different age groups, health and social statuses and genders.

The figure below details the projected proportion of the resident population in Ipswich City aged over 65 years, benchmarked to Queensland, between 2016 and 2041.

**Proportion of the resident population aged over 65 years, 2016 to 2041**

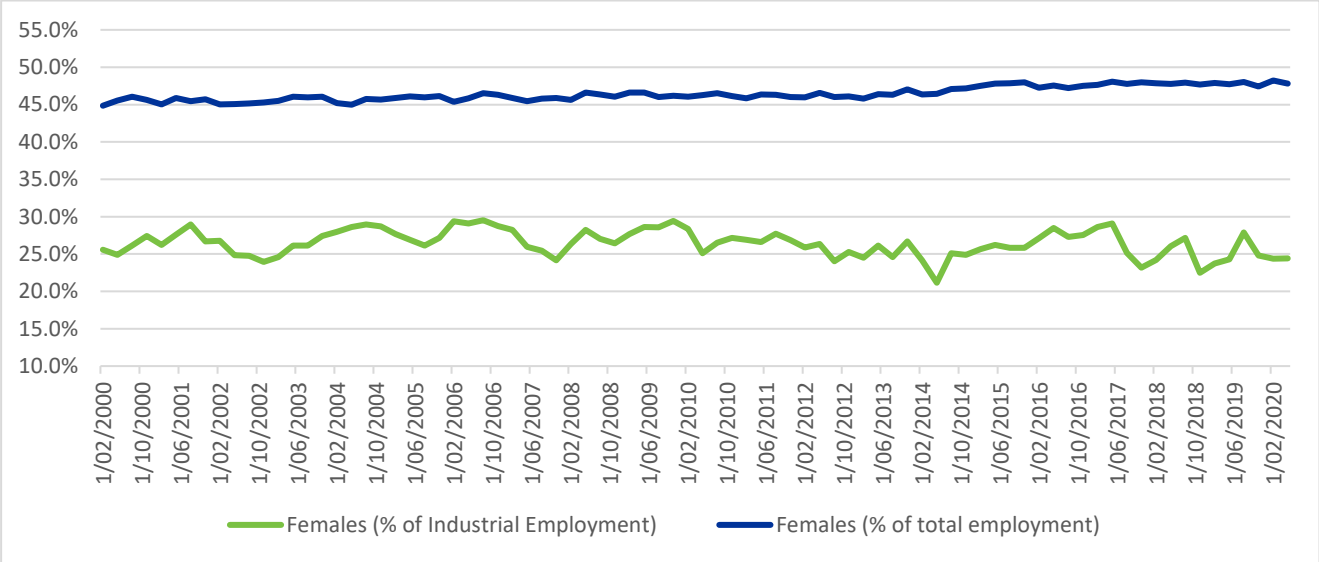



Source: QGSO Population Projections (2018)

Additionally, female participation in the workforce is continuing to grow, while male participation is on the decline, primarily due to a significant proportion of the male labour force occupying previously low skilled jobs (Hajkowicz, et al., 2016). As women continue to account for an increasing proportion of the labour market, there will be greater pressure on employers to offer flexible working arrangements to employees as more participants will need to balance family and responsibilities and work.

Within the Brisbane GCCSA (in which Ipswich City is situated), the increasing proportion of females in the work force is evident (across all industry sectors) between 2000 and 2020. The proportion of industrial employment attributable to women within the Brisbane GCCSA has been fairly volatile over the same time period, however, as of February 2020 there has been a significant reduction in the proportion of female workers in industrial industries as illustrated in yhe figure below. Despite the decreases in female industrial employment in the area, it remains necessary for employers in Ipswich to provide flexible working arrangements to continue to encourage female participation in industrial sectors.

**Female Workforce Participation – Brisbane GCCSA, 2000 to 2020**



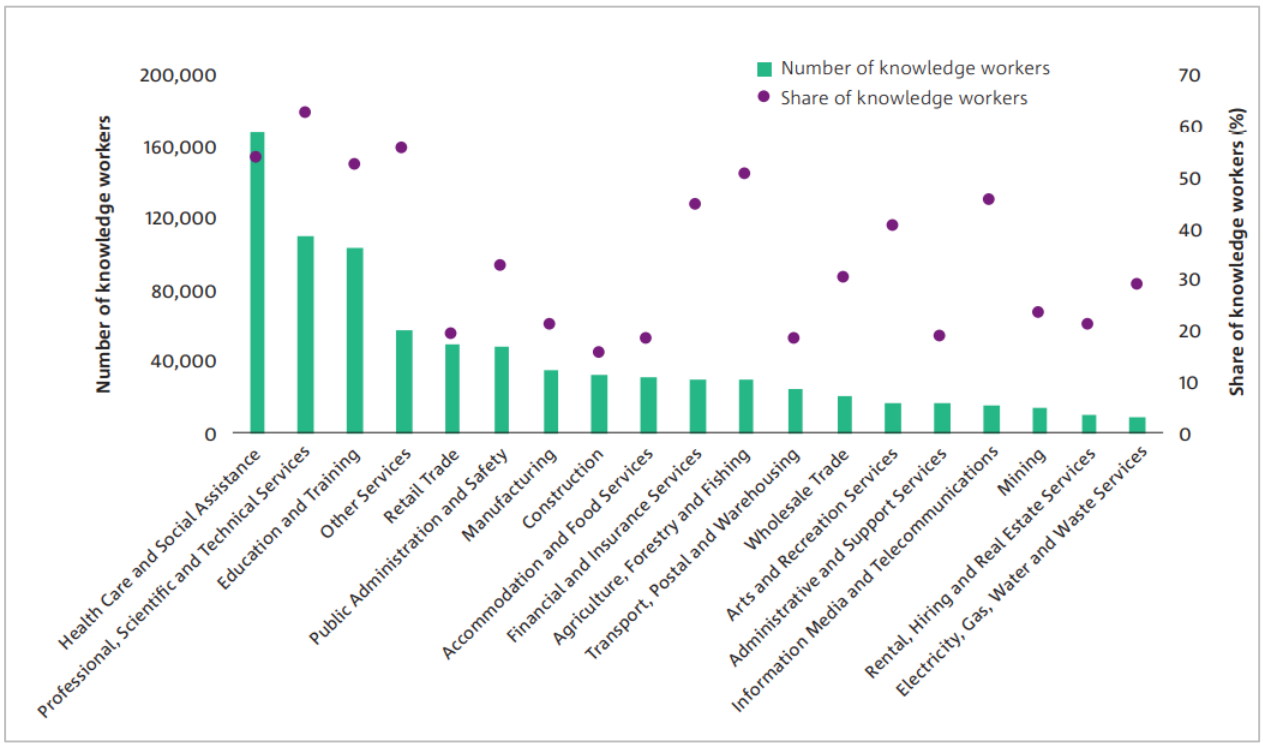

Note: this data is not available at the local government area level.
Source: ABS Labour Force Cat. 6291.0.55.003 (2020)

## Increasing Knowledge Intensity

Global economies are increasingly moving away from manufacturing and agriculture to service-based economies, with a growing demand for knowledge and information (Witt, U., & Gross, C., 2019). The shift in the economic landscape has resulted in automated systems requiring high skill levels, with low skilled jobs being moved to less developed countries. This shift has resulted in a "higher bar" being set, with many professions requiring high level skills and education for entry positions. As such, knowledge intensive jobs are expected to be the key driving force for job creation and economic growth.

A knowledge intense economy, according to the World Bank, is one where significant importance is placed on the creating, distribution and use of knowledge over capital or labour asset. A knowledge intensive economy requires workers trained in science, technology, engineering and mathematics (STEM), with the vast majority Australia's fastest-growing professions requiring training in STEM. The application of fundamental STEM developments and infrastructure influences substantial shifts in the types of services companies provide and the delivery of these services (Naughtin , Horton, & Pham, 2019). The number of knowledge workers has increased significantly over the last few decades and is expected to grow further. In 2016, Queensland had some 816,022 knowledge workers which represented just under 40.0% of the state's total workforce (see figure below). However, Queensland lagged several other states in terms of the proportion of workforce in knowledge intensive jobs.

### Number and share of knowledge workers in Queensland by Industry, 2016




Source: CSIRO New Smarts: Supporting Queensland's knowledge-intensive industries through science, research and innovation (2019)

As highlighted above, a knowledge intensive economy is an important driver of innovation in sectors such as mining, agriculture and manufacturing. A report from the office of Queensland's Chief Scientist in 2015 details how knowledge intensive services can facilitate smart manufacturing platforms that integrate information technology, metrics, modelling and simulation driven by plant sensor data to enable manufacturing to run with real-time flexibility, optimising efficiencies throughout the entire production process (Department of Science, Information Technology and Innovation, 2015). The increasing introduction of smart devices and embedded intelligence into variety of industries has resulted in increased demand for skill labourers to support and maintain new technologies (Navales, 2018).

In 2019, CSIRO identified eight emerging knowledge intensive industries that Queensland should pursue. The emerging knowledge intensive industries identified are detailed in the table below.

### Emerging Knowledge – Intensive Industries in Queensland

| Sector | Description |
|---|---|
| Sustainable Energy | Drawing upon strengths in renewables research and enabling sensors, platforms and nanotechnologies to provide sustainable, affordable and reliable energy products and services. |
| Cyber -Physical Security | Responding to the need for improved cybersecurity and leveraging research capabilities in robotics and autonomous systems to provide technical and behavioural solutions |
| Smart Mining, Exploration and Extraction | Using enabling remote technologies and deep mining research and industry expertise to enhance the knowledge intensity of the entire mining chain, from exploration to mine remediation. |
| Personalised and Preventative Healthcare | Drawing upon world-class biomedical research facilities and infrastructure, platforms, sensor technologies and 3D printing to provide customised and proactive healthcare services. |

| Sector | Description |
|---|---|
| Advanced Materials and Precision Engineering | Leveraging advances in 3D printing and automation and existing strengths in advanced manufacturing research to provide high-value, low-volume customised inputs for a range of sectors. |
| Next Generation Aerospace and Space Technologies | Capitalising on geographical strengths and aerospace businesses and research to grow niche markets in the design, development, testing and maintenance of flight vehicles and Earth observation. |
| Advanced Agriculture | Utilising deep food science expertise and enabling technologies to transition a strong and mature agriculture industry into one that produces more sustainable, secure and nutritious products. |
| Circular Commodities | Leveraging existing biotechnology research and an emerging bio futures sector to transform and reduce existing waste streams from industries and consumer markets. |

Source: CSIRO New Smarts: Supporting Queensland's knowledge-intensive industries through science, research, and innovation (2019)

With respect to industrial land uses, a significant implication of the shift towards knowledge intense workforces through the integration of Industry 4.0 and through embedding of software and design capabilities within the industrial sector and the resulting accelerated supply chain.

Embedding systems such as software and design in manufacturing and logistics is an increasing feature of a knowledge intensive economy. Embedded systems are reliant on information and communication technology and enable certain components such as actuators or sensors to perform tasks. These embedded systems are interconnected through "IoT" which are operated by workers (CEDA, 2014). Embedded systems particularly embedded design in manufacturing and logistics provides businesses with the following:

- More efficient supply network productivity and management
- Rapid innovation
- Optimal worker interaction (increased labour productivity and less manual labour)
- Worker safety
- Management of large data and
- Cost savings.

Consequently, this gives rise to higher skill requirements both in the form of specialist software or industrial designers and higher skill attainment among workers. Based on this increasing trend, the technological connectivity of industrial areas will be integral to businesses locating within a development.

Within Ipswich, over a third of the working population were employed in occupations which typically require a blue-collar workforce (technicians and trades workers, machinery operators and drivers and labourers) as further detailed in Section 3. This suggests that Ipswich City is not yet predominantly reliant on a knowledge intensive economy. However, Ipswich City will need to focus on transitioning lower skilled workers into roles which will remain relevant when the city is heavily reliant on knowledge intense sectors.

### Soft Factors

Soft factors refer to human issues, socio-economic, political, cultural and anthropological factors which can influence how cities, precincts and businesses operate. Some key soft factors which are relevant to industry in Ipswich City are:

- Provenance and sustainability and
- Workplace flexibility.

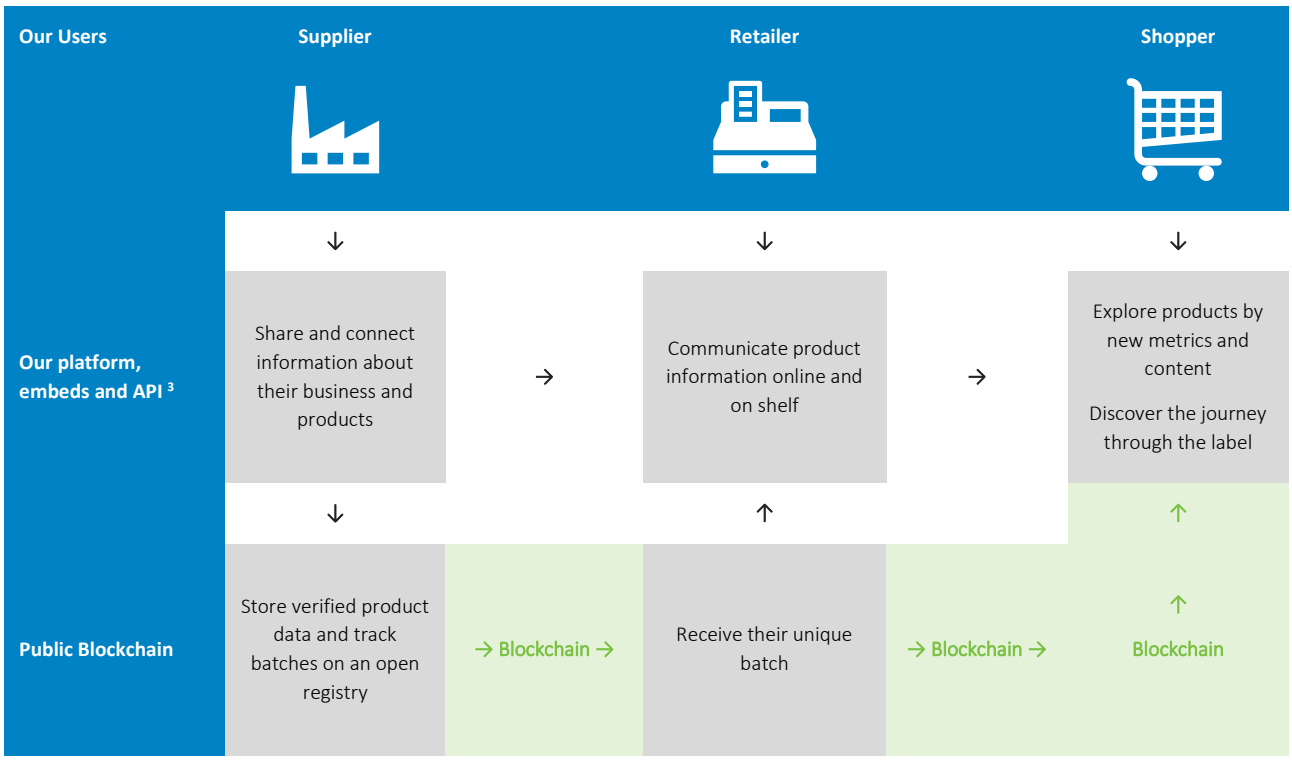
The concept of product provenance is becoming increasingly popular among consumers around the world with local food sourcing and ethical manufacturing becoming common practice. The availability of information on the internet is accessible to most consumers and ensuring that supply chains are ethical and sustainable is of growing importance to

consumers. The integration of IoT and blockchain can facilitate the involvement of customers in the individual supply chain of produce.

Adding provenance to supply chains allows consumers to make informed decisions on products and drive out 'worst practice' corporate behaviour (Medium, 2019) in order to ensure sustainable suppliers in the future. Many large clothing brands like Adidas and ASOS now publish supplier maps so customers can see their supply chain and manufacturing locations. In recent years, a commercial imperative to disclose information has evolved from being commercially sensitive (Tyler, 2018).

The figure below details how blockchain and the IoT can work to satisfy consumer provenance.

**How provenance works**




Source: Provenance.org, 2020

A megatrend which has been accelerated due to the COVID-19 pandemic and the resulting restrictions on domestic and international trade is workplace flexibility. One of the most significant changes to travel has led to the widespread adoption of work from home practices. As of the 2016 Census, approximately 4.7% of the working population of Australia worked from home, however, in 2019 (prior to COVID-19) it was estimated that 15.0% of employees had the option to work remotely (Knight, 2020).The changes to traditional work arrangements which have been imposed due to the pandemic have meant that almost a third of the Australian workforce have been working from home since the implementation of restrictions (Roy Morgan, 2020). A report published by Global Workplace Analytics (2020) indicates that as a result of the pandemic, approximately 25.0% to 30.0% of the workforce will be working from home multiple days a week by the end of 2021. The ongoing flexibility in workplace arrangements will therefore be a significant 'soft' skill of employers in the future. Additionally, this trend also benefits outer suburban locations such as Ipswich City, with persons willing to travel further distances to their place of work if a mix of in-office attendance and working from home practices represents a permanent shift in performing their role. It is imperative that technology and communication infrastructure throughout Ipswich City is of a sufficient standard to support this trend.

[3] Application Programming Interface

Employers can also benefit from the flexibility workplace arrangements by reducing the overhead costs associated with maintaining an office space to accommodate all staff members full time. There are also potential benefits to employers from employing workers for variable tasks or one-off jobs without the obligations of ongoing employment. However, employers might also face intangible costs associated with flexible staff members who lack of knowledge of and interest in company operations, or corporate memory. Knowledge, expertise, and experience are forms of intellectual capital that can also be lost.

For Ipswich City, the reputation of local and ethical product manufacturing is strong due to the City being a part of SEQ. Ipswich City can leverage this reputation to promote provenance between local producers and consumers (both within and outside of the City). Additionally, Ipswich City will need to continue to encourage local businesses to support flexibility in work arrangements, particularly in the wake of COVID-19 as employees have become comfortable with their work from home arrangements.

## D.2 Micro-Economic Trends

The microeconomic trends detailed in this section are as follows:

- **SEQ Economy:** identify any significant changes in the composition of the SEQ economy over time
- **Changes to the Role and Function of Ipswich City:** distinguish any changes in the role and function economically of Ipswich
- **Freight Networks:** changes in local, regional, state and national transport and freight networks (e.g. Inland Rail, port connections, etc)
- **Intermodal Facilities:** Impact of a future intermodal freight interchange in association with the Australian Rail Track Corporation (ARTC) Inland Rail Program in the Ebenezer Regional Industrial area and
- **Policy Influences:** identify the potential or actual policy influences which might impact on Ipswich City (e.g. Queensland Waste Strategy, Advance Queensland policy initiatives, etc).

### D.2.1 Changes to the SEQ Economy

This section details the changes to the SEQ economy overtime across the following economic indicators:

- Gross Regional Product
- Value added by industry
- Exports and Imports and
- Employment by Industry.

#### Gross Regional Product

Gross Regional Product (GRP) is a measure of net wealth generated by the economy of interest. According to National Institute of Economic and Industry Research (NIEIR), the real GRP of SEQ was estimated at $220,048 million in 2018-19, almost double the GRP recorded in 2000-01. The average annual growth rate of real GRP for SEQ was 3.6% between 2000-01 and 2018-19, with GRP decreasing by 1.5% between 2017-18 and 2018-19.

Real gross state product (GSP) of Queensland increased from $191,720 million in 2000-01 to $351,669 million in 2018-19, representing 83.0% increase in GSP over the 18 years, or average annual growth rate of 3.4%, lower than the growth rate recorded in SEQ over the same period. Between 200-01 and 2018-19, SEQ contributed over 60.0% to Queensland GSP, SEQ contribution was highest in 2012-13, contributing with 64.9% of Queensland QSP.Tthe table below summarises the estimated real GRP in SEQ and Queensland between 2000-01 and 2018-19, including year on year percentage changes in growth.

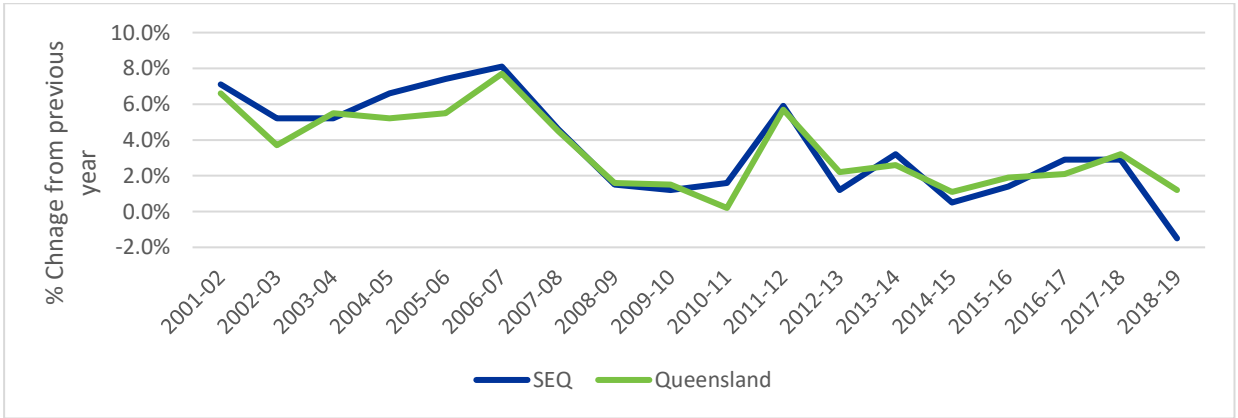
### Estimates of Real GRP/GSP ($m) in SEQ and Queensland, 2000-01 to 2018-19

| | SEQ | | Queensland | | SEQ as % of Queensland |
|---|---|---|---|---|---|
| | GRP ($) | % change from previous year | GSP ($m) | % change from previous year | |
| 2000-01 | 116,870 | - | 191,720 | - | 61.0% |
| 2001-02 | 125,182 | 7.1% | 204,365 | 6.6% | 61.3% |
| 2002-03 | 131,672 | 5.2% | 211,955 | 3.7% | 62.1% |
| 2003-04 | 138,552 | 5.2% | 223,629 | 5.5% | 62.0% |
| 2004-05 | 147,634 | 6.6% | 235,203 | 5.2% | 62.8% |
| 2005-06 | 158,501 | 7.4% | 248,152 | 5.5% | 63.9% |
| 2006-07 | 171,278 | 8.1% | 267,153 | 7.7% | 64.1% |
| 2007-08 | 179,142 | 4.6% | 279,152 | 4.5% | 64.2% |
| 2008-09 | 181,780 | 1.5% | 283,741 | 1.6% | 64.1% |
| 2009-10 | 184,003 | 1.2% | 288,049 | 1.5% | 63.9% |
| 2010-11 | 186,955 | 1.6% | 288,488 | 0.2% | 64.8% |
| 2011-12 | 198,033 | 5.9% | 304,991 | 5.7% | 64.9% |
| 2012-13 | 200,433 | 1.2% | 311,804 | 2.2% | 64.3% |
| 2013-14 | 206,911 | 3.2% | 319,968 | 2.6% | 64.7% |
| 2014-15 | 208,024 | 0.5% | 323,515 | 1.1% | 64.3% |
| 2015-16 | 210,973 | 1.4% | 329,793 | 1.9% | 64.0% |
| 2016-17 | 217,071 | 2.9% | 336,716 | 2.1% | 64.5% |
| 2017-18 | 223,301 | 2.9% | 347,393 | 3.2% | 64.3% |
| 2018-19 | 220,048 | -1.5% | 351,669 | 1.2% | 62.6% |

Source: Economy ID, 2020

Over this time, the growth in real GRP in SEQ was typically higher than real GSP growth in Queensland, however, in the most recent year, real GSP growth rate was 2.7% higher. SEQ rate of real GRP growth was particularly high in the 2004-05 to 2007-08 period, both in terms of year-on-year growth and relative to real GSP growth in Queensland. The figure below illustrates the year-on-year growth for real GRP in SEQ and real GSP growth in Queensland between 2000-01 and 2018-19.

### Annual Growth in Real GRP/GSP in SEQ and Queensland, 2001-02 to 2018-19




Source: Economy ID, 2020

## Value Added

Value added by industry demonstrates how productive each industry sector is at increasing the value of its inputs. The highest contributing sectors to value added across SEQ were as follows:

- Construction
- Manufacturing
- Financial and Insurance Services
- Health Care and Social Assistance and
- Professional, Scientific and Technical Services.

From 2000-01 to 2005-06 manufacturing was the largest industry of value added for SEQ. Between 2006-07 and 2017-18 construction surpassed manufacturing as the largest industry of value added. In the 2000-01 and 2005-06 period, construction recorded an average contribution to SEQ value added of 11.3% per annum. In the most recent year, health care and social assistance replaced construction as the largest industry of value added to SEQ, contributing with 10.1%.

Financial and insurance services was the third largest industry of value added between 2000-01 and 2018-19 in SEQ. Financial and insurance services sector contributed with 8.2% to value added in 2000-01 increasing to 9.0% in 2018-19, experiencing a peak in 2016-17 with 9.3%. Over this period, the financial and insurance service sector recorded an average contribution to SEQ value added of 8.5% per annum.

The health care and social assistance industry has also been identified as a significant contributor to SEQ's total value added. This industry contributed 10.1% to value added for SEQ in 2018-19. There was a significant increase in the contribution to total value added from health care and social assistance sector over this period, increasing from 6.9% in 2000-01 to 10.1% in 2018-19.

Professional administration and safety sector was identified as the fifth largest contributing industry to value added for SEQ. This industry contributed on average 7.5% of SEQ total value added.

The value added by industry as share for SEQ is outlined in the table below.

### Value Added by Industry, Share of SEQ Value Added, 2000-01 to 2018-19

| Industry | 2000-01 | 200 1-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Agriculture, Forestry and Fishing | 2.3% | 1.9% | 1.5% | 1.6% | 1.7% | 1.5% | 1.3% | 1.4% | 1.7% | 1.7% | 2.0% | 2.0% | 1.8% | 1.5% | 1.5% | 1.4% | 1.4% | 1.5% | 1.3% |
| Mining | 1.5% | 1.4% | 1.3% | 1.2% | 1.3% | 1.5% | 1.2% | 1.3% | 1.5% | 1.4% | 1.4% | 1.5% | 1.8% | 1.8% | 1.8% | 1.9% | 2.3% | 2.4% | 2.3% |
| Manufacturing | 11.5% | 11.9% | 11.9% | 11.5% | 11.2% | 11.1% | 11.0% | 10.7% | 9.7% | 9.6% | 9.6% | 9.4% | 9.3% | 9.0% | 8.9% | 8.4% | 8.0% | 7.8% | 7.7% |
| Electricity, Gas, Water and Waste Services | 3.9% | 4.0% | 3.9% | 3.7% | 3.5% | 3.4% | 3.6% | 3.4% | 3.7% | 3.7% | 3.8% | 3.4% | 3.3% | 3.3% | 3.5% | 3.5% | 3.5% | 3.4% | 3.3% |
| Construction | 9.9% | 10.0% | 10.9% | 10.8% | 10.9% | 10.9% | 11.3% | 11.9% | 12.3% | 11.7% | 11.4% | 12.6% | 12.2% | 12.9% | 12.0% | 11.1% | 10.9% | 10.9% | 9.8% |
| Wholesale Trade | 5.7% | 5.8% | 5.9% | 6.0% | 6.0% | 5.9% | 5.8% | 5.8% | 5.6% | 5.4% | 5.2% | 5.2% | 5.3% | 5.1% | 5.0% | 4.9% | 5.0% | 4.9% | 5.1% |
| Retail Trade | 5.9% | 5.9% | 5.9% | 6.2% | 6.2% | 6.0% | 6.0% | 6.1% | 5.8% | 5.9% | 5.9% | 5.8% | 5.8% | 5.8% | 5.8% | 5.8% | 5.6% | 5.6% | 5.8% |
| Accommodation and Food Services | 4.0% | 3.7% | 3.7% | 3.6% | 3.6% | 3.6% | 3.5% | 3.5% | 3.3% | 3.3% | 3.3% | 3.2% | 3.2% | 3.2% | 3.2% | 3.3% | 3.2% | 3.2% | 3.3% |
| Transport, Postal and Warehousing | 6.4% | 6.4% | 6.6% | 6.7% | 6.9% | 6.9% | 6.7% | 6.7% | 6.6% | 6.7% | 6.5% | 6.4% | 6.6% | 6.4% | 6.2% | 6.2% | 6.3% | 6.4% | 6.6% |
| Information Media Telecommunications | 1.9% | 1.8% | 1.9% | 1.8% | 1.8% | 1.7% | 1.8% | 1.9% | 1.9% | 1.9% | 2.0% | 1.9% | 1.9% | 1.9% | 2.1% | 2.3% | 2.2% | 2.1% | 2.1% |
| Financial and Insurance Services | 8.2% | 8.0% | 7.9% | 8.1% | 8.4% | 8.4% | 8.8% | 8.7% | 8.7% | 8.3% | 8.0% | 8.5% | 8.9% | 8.4% | 8.5% | 9.2% | 9.3% | 9.0% | 9.0% |
| Rental, Hiring and Real Estate Services | 3.2% | 3.4% | 3.7% | 3.8% | 3.8% | 4.0% | 3.9% | 3.8% | 3.7% | 3.5% | 3.4% | 3.5% | 3.7% | 4.1% | 4.1% | 4.3% | 4.1% | 4.1% | 4.0% |
| Professional, Scientific and Technical Services | 5.7% | 6.0% | 6.0% | 6.4% | 6.6% | 6.8% | 7.1% | 7.1% | 7.1% | 8.0% | 8.3% | 8.3% | 8.4% | 8.4% | 8.3% | 8.4% | 8.6% | 8.5% | 8.5% |
| Administrative and Support Services | 3.8% | 3.9% | 4.0% | 4.0% | 4.1% | 4.3% | 4.5% | 4.5% | 4.2% | 4.1% | 4.2% | 3.8% | 3.7% | 3.9% | 3.9% | 3.9% | 4.2% | 4.4% | 4.6% |
| Public Administration and Safety | 7.5% | 7.9% | 6.9% | 6.9% | 6.7% | 6.7% | 6.5% | 6.5% | 6.5% | 6.7% | 7.2% | 7.1% | 6.7% | 6.6% | 6.7% | 6.9% | 6.8% | 6.7% | 6.9% |
| Education and Training | 7.4% | 7.1% | 7.0% | 6.8% | 6.9% | 6.5% | 6.4% | 6.2% | 6.3% | 6.4% | 6.3% | 6.1% | 6.0% | 6.5% | 6.5% | 6.5% | 6.2% | 6.2% | 6.3% |
| Health Care and Social Assistance | 6.9% | 6.9% | 6.7% | 6.6% | 6.6% | 7.0% | 7.0% | 7.1% | 7.6% | 8.0% | 8.0% | 7.8% | 7.9% | 7.7% | 8.5% | 8.7% | 9.0% | 9.4% | 10.1% |
| Arts and Recreation Services | 1.1% | 1.1% | 1.1% | 1.2% | 1.2% | 1.1% | 1.2% | 1.1% | 1.1% | 1.1% | 1.1% | 1.1% | 1.0% | 1.0% | 1.0% | 1.1% | 1.0% | 1.1% | 1.1% |
| Other Services | 3.0% | 2.9% | 3.0% | 3.0% | 2.8% | 2.7% | 2.5% | 2.5% | 2.6% | 2.6% | 2.4% | 2.4% | 2.4% | 2.3% | 2.4% | 2.4% | 2.4% | 2.4% | 2.5% |
| **Total industries** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

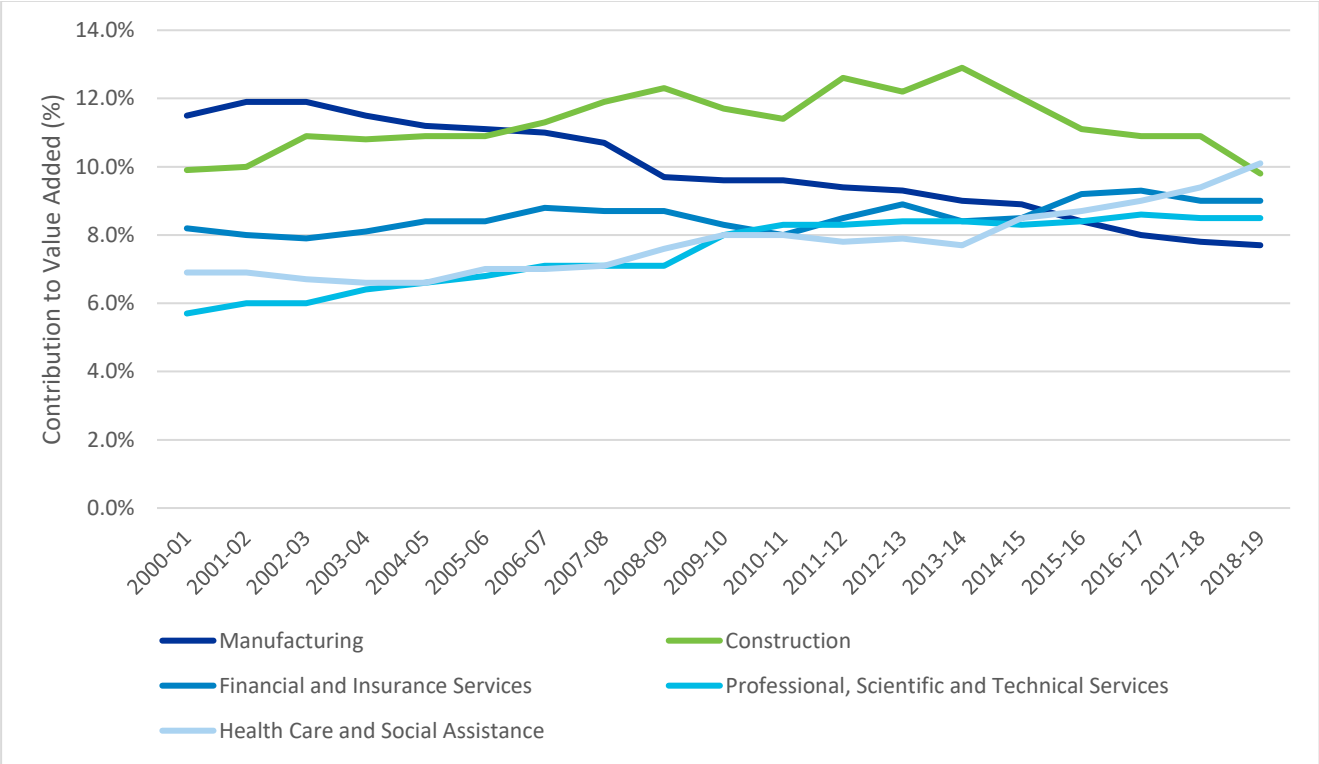
Source: Economy ID, 2020

The figure below outlines the growth in value added of the top five contributing industries in SEQ, namely:

- Construction
- Manufacturing
- Financial and Insurance Services
- Health Care and Social Assistance and
- Professional, Scientific and Technical Services.

The figure below illustrates the rapid increase in construction industry value added since 2006-07 before declining in the most recent year. The financial and insurance services, health care and social assistance and professional, scientific and technical services industries all experienced steady growth between 2000-01 to 2018-19.

**Highest contributing industries to value added in SEQ, 2000-01 to 2018-19**




Source: Economy ID, 2020

## Imports and Exports

Imports by industry are sales of goods and services from industries located outside of SEQ to resident households, businesses, and other organisations within the region. The most significant sectors in terms of import value in SEQ were:

- Manufacturing
- Financial and insurance services
- Public administration and safety
- Mining and
- Agriculture, forestry and fishing.

The value of imports per industry by industry in SEQ in the 2000-01 to 2018-19 period are outlined in the table below.

### Imports by Industry in SEQ (%), 2000-01 to 2018-19

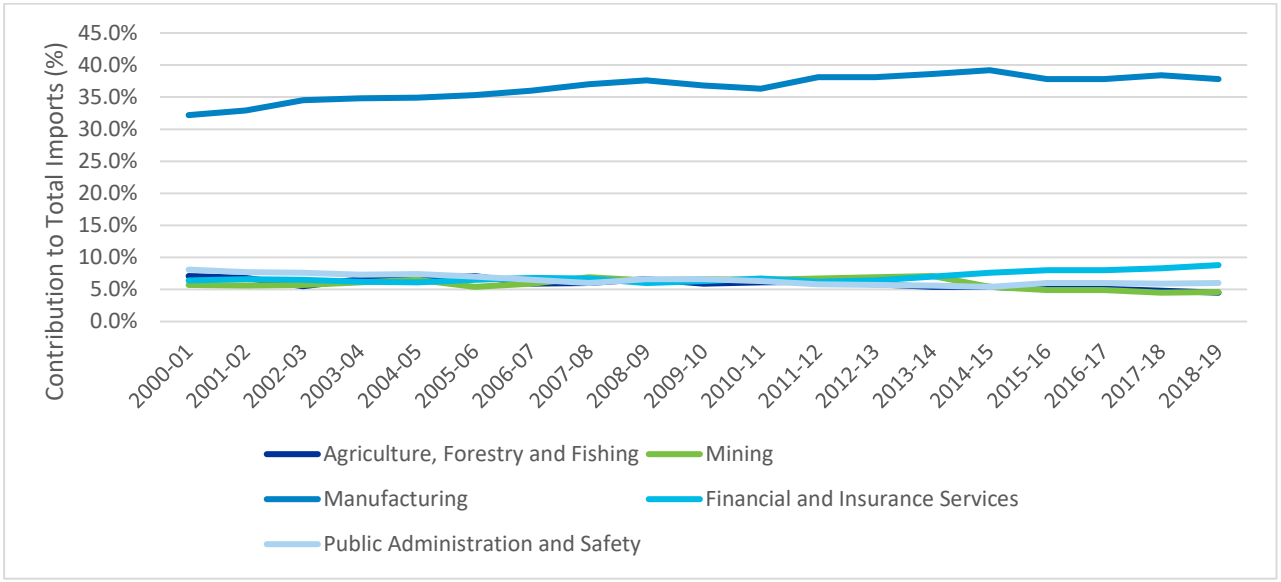
| Industry | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Agriculture, Forestry and Fishing | 7.1% | 6.8% | 5.5% | 6.6% | 6.6% | 7.1% | 5.9% | 6.0% | 6.6% | 5.9% | 6.1% | 6.2% | 5.8% | 5.4% | 5.4% | 5.1% | 5.1% | 4.8% | 7.1% |
| Mining | 5.7% | 5.6% | 5.7% | 6.1% | 6.5% | 5.4% | 5.9% | 6.9% | 6.4% | 6.6% | 6.5% | 6.7% | 6.9% | 7.1% | 5.4% | 4.9% | 4.9% | 4.5% | 5.7% |
| Manufacturing | 32.2% | 32.9% | 34.5% | 34.8% | 34.9% | 35.3% | 36.0% | 37.0% | 37.6% | 36.8% | 36.3% | 38.1% | 38.1% | 38.6% | 39.2% | 37.8% | 37.8% | 38.4% | 32.2% |
| Electricity, Gas, Water and Waste Services | 4.0% | 4.0% | 3.7% | 3.4% | 3.5% | 3.5% | 3.0% | 2.8% | 2.8% | 2.7% | 2.6% | 2.6% | 2.9% | 3.2% | 3.7% | 4.1% | 4.1% | 4.0% | 4.0% |
| Construction | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| Wholesale Trade | 3.8% | 3.5% | 3.7% | 3.4% | 3.4% | 3.3% | 3.1% | 2.7% | 2.7% | 2.8% | 2.7% | 2.9% | 2.9% | 2.9% | 2.9% | 3.0% | 3.0% | 3.1% | 3.8% |
| Retail Trade | 2.4% | 2.4% | 2.4% | 2.3% | 2.3% | 2.2% | 2.5% | 2.4% | 2.3% | 2.3% | 2.3% | 2.1% | 2.1% | 2.0% | 2.0% | 2.2% | 2.2% | 2.1% | 2.4% |
| Accommodation and Food Services | 2.8% | 2.6% | 2.8% | 3.3% | 3.4% | 3.6% | 3.5% | 3.3% | 2.8% | 2.9% | 2.9% | 2.9% | 3.3% | 3.2% | 3.3% | 3.1% | 3.1% | 3.2% | 2.8% |
| Transport, Postal and Warehousing | 6.0% | 6.0% | 6.1% | 6.2% | 5.7% | 5.6% | 6.3% | 6.1% | 5.6% | 6.2% | 6.2% | 6.0% | 5.8% | 5.2% | 5.1% | 5.0% | 5.0% | 4.9% | 6.0% |
| Information Media and Telecommunications | 3.4% | 3.3% | 3.2% | 3.3% | 3.2% | 3.3% | 3.4% | 3.4% | 3.5% | 3.8% | 3.8% | 3.7% | 3.8% | 3.6% | 3.8% | 3.5% | 3.5% | 3.7% | 3.4% |
| Financial and Insurance Services | 6.4% | 6.6% | 6.5% | 6.2% | 6.1% | 6.5% | 6.8% | 6.7% | 6.0% | 6.3% | 6.7% | 6.2% | 6.4% | 7.0% | 7.6% | 8.0% | 8.0% | 8.3% | 6.4% |
| Rental, Hiring and Real Estate Services | 0.7% | 0.6% | 0.5% | 0.6% | 0.5% | 0.5% | 0.5% | 0.5% | 0.7% | 0.6% | 0.5% | 0.5% | 0.6% | 0.5% | 0.5% | 0.5% | 0.5% | 0.5% | 0.7% |
| Professional, Scientific and Technical Services | 5.6% | 5.6% | 5.6% | 5.5% | 5.1% | 4.8% | 5.0% | 5.0% | 5.0% | 5.1% | 5.3% | 5.5% | 5.6% | 5.2% | 4.8% | 5.4% | 5.4% | 5.6% | 5.6% |
| Administrative and Support Services | 3.1% | 3.1% | 2.8% | 2.3% | 2.5% | 2.4% | 2.3% | 2.4% | 2.2% | 2.1% | 2.2% | 2.2% | 2.1% | 1.9% | 2.0% | 1.6% | 1.6% | 1.6% | 3.1% |
| Public Administration and Safety | 8.1% | 7.7% | 7.6% | 7.3% | 7.4% | 7.0% | 6.5% | 6.0% | 6.6% | 6.6% | 6.3% | 5.8% | 5.7% | 5.6% | 5.4% | 6.0% | 6.0% | 5.9% | 8.1% |
| Education and Training | 2.6% | 3.2% | 3.1% | 2.7% | 2.5% | 2.5% | 2.2% | 2.1% | 2.0% | 2.1% | 2.2% | 2.0% | 2.0% | 1.8% | 1.9% | 2.3% | 2.3% | 2.3% | 2.6% |
| Health Care and Social Assistance | 3.3% | 3.2% | 3.1% | 2.9% | 3.2% | 3.6% | 3.2% | 3.0% | 3.4% | 3.5% | 3.6% | 3.1% | 3.0% | 3.1% | 3.3% | 3.9% | 3.9% | 4.0% | 3.3% |
| Arts and Recreation Services | 1.0% | 0.9% | 0.9% | 1.1% | 1.0% | 1.0% | 1.1% | 1.0% | 1.2% | 1.2% | 1.1% | 1.1% | 1.1% | 1.1% | 1.1% | 1.1% | 1.1% | 1.1% | 1.0% |
| Other Services | 1.9% | 2.0% | 2.1% | 2.1% | 2.2% | 2.3% | 2.7% | 2.5% | 2.6% | 2.5% | 2.7% | 2.4% | 2.2% | 2.5% | 2.4% | 2.3% | 2.3% | 2.2% | 1.9% |
| **Total industries** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

Source: Economy ID, 2020

Between 2000-01 to 2018-19 the largest import value for SEQ has been the manufacturing industry. The manufacturing industry on average accounted for 36.5% of SEQ import value per annum between 2000-01 and 2018-19, accounting for 37.8% of total imports to SEQ in the most recent. Financial and insurance services is also a key contributor of imports to SEQ, increasing from in 6.4% in 2000-01 to 8.8% in 2018-19. This industry was closely followed by the agriculture, forestry and fishing and mining industries as import contribution in SEQ.

Combined, the manufacturing, financial and insurance services, agriculture, forestry and fishing and mining industries accounted for 55.7% of all imports to the SEQ in 2018-19 and are therefore important contributors to the economy of SEQ. The import of health care and social assistance is also significant, accounting for 6.0% of SEQ imports in 2018-19. The highest industries which contributed to SEQ imports between 2000-01 to 2018-19 is illustrated in the figure below.

**Highest Import Industries (%), SEQ, 2000-01 to 2018-19**




Source: Economy ID, 2020

The value of exports from SEQ has increased significantly between 2000-01 and 2018-19, with the most significant sectors in terms of export value in SEQ as follows

- Manufacturing
- Transport, postal and warehousing
- Public administration and safety
- Wholesale trade and
- Retail trade.

The largest contributing export industry within SEQ over this period is manufacturing. Between 2001-01 and 2018-19, manufacturing exports on average accounted for 62.5% of SEQ's total exports. The manufacturing industry contributed 18.4% to SEQ exports in 2018-19. Manufacturing was also the largest import industry. Transport, postal and warehousing industries are also a significant contributor to SEQ exports. This industry's contribution to total export value increased from 11.4% in 2001-01 to $13.0% in 2018-19 and on average accounted for 12.4% SEQ exports per annum. Interestingly, whilst the public administration and safety industry was the third largest export contributor in 2018-19, this sector experienced a declined from the peak experienced 2010-11, contributing with 8.3% of total SEQ export value. Wholesale trade has also been a key contributor to exports, accounting for 5.8% of all SEQ exports in 2018-19. A similar trend is prevalent in the retail trade sector, which was also identified as a major contributor to SEQ exports, contributing on average 5.2% of total exports between 2000-01 and 2018-19. The value of exports by industry share in SEQ are outlined in the table below.

### Imports by Industry in SEQ (%), 2000-01 to 2018-19

| Industry | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Agriculture, Forestry and Fishing | 4.5% | 3.4% | 3.1% | 3.0% | 2.9% | 2.2% | 2.1% | 2.1% | 2.4% | 2.5% | 3.0% | 3.2% | 2.5% | 2.1% | 2.0% | 2.0% | 2.2% | 2.2% | 1.8% |
| Mining | 2.8% | 2.8% | 2.9% | 2.4% | 2.5% | 3.0% | 2.4% | 2.6% | 2.9% | 3.0% | 3.1% | 3.2% | 3.6% | 3.4% | 4.0% | 5.5% | 7.3% | 7.7% | 7.2% |
| Manufacturing | 27.5% | 29.7% | 29.2% | 28.5% | 28.2% | 29.1% | 29.9% | 27.2% | 24.7% | 25.0% | 26.2% | 28.5% | 28.0% | 29.3% | 29.7% | 25.3% | 20.4% | 18.8% | 18.4% |
| Electricity, Gas, Water and Waste Services | 3.5% | 3.8% | 4.0% | 3.6% | 3.2% | 3.2% | 3.8% | 3.7% | 4.3% | 4.4% | 4.4% | 3.3% | 3.0% | 3.1% | 3.1% | 3.6% | 3.8% | 3.8% | 3.5% |
| Construction | 0.4% | 0.3% | 0.3% | 0.3% | 0.2% | 0.3% | 0.3% | 0.3% | 0.3% | 0.2% | 0.2% | 0.3% | 0.3% | 0.3% | 0.2% | 0.2% | 0.2% | 0.2% | 0.2% |
| Wholesale Trade | 5.3% | 5.7% | 5.8% | 6.0% | 5.8% | 5.7% | 5.8% | 6.1% | 6.3% | 6.1% | 5.6% | 5.2% | 5.7% | 5.6% | 5.5% | 5.3% | 5.2% | 5.3% | 5.8% |
| Retail Trade | 5.0% | 5.1% | 5.3% | 5.8% | 6.0% | 6.7% | 5.2% | 5.3% | 5.1% | 5.0% | 5.1% | 4.8% | 4.8% | 4.8% | 4.8% | 4.9% | 5.1% | 5.1% | 5.5% |
| Accommodation and Food Services | 5.0% | 5.0% | 4.7% | 4.0% | 3.9% | 3.6% | 4.0% | 4.1% | 4.0% | 3.8% | 3.3% | 3.3% | 3.7% | 3.6% | 3.1% | 3.3% | 3.1% | 3.2% | 3.3% |
| Transport, Postal and Warehousing | 11.4% | 11.1% | 11.8% | 12.1% | 12.0% | 11.6% | 11.7% | 13.7% | 13.4% | 13.6% | 13.0% | 13.0% | 13.5% | 12.6% | 11.3% | 11.5% | 12.1% | 12.7% | 13.0% |
| Information Media and Telecommunications | 2.5% | 1.9% | 2.0% | 1.7% | 1.6% | 1.4% | 1.2% | 1.0% | 1.2% | 1.4% | 1.3% | 0.9% | 1.0% | 1.1% | 1.4% | 1.5% | 1.3% | 1.3% | 1.2% |
| Financial and Insurance Services | 5.0% | 4.5% | 4.4% | 4.7% | 5.0% | 4.7% | 4.2% | 3.8% | 4.3% | 3.6% | 3.6% | 4.4% | 4.7% | 4.5% | 4.7% | 5.6% | 6.2% | 5.7% | 5.9% |
| Rental, Hiring and Real Estate Services | 0.9% | 0.9% | 0.9% | 0.9% | 1.2% | 1.4% | 1.6% | 1.3% | 0.8% | 0.8% | 0.9% | 1.2% | 1.3% | 1.3% | 1.4% | 1.0% | 0.9% | 1.0% | 0.9% |
| Professional, Scientific and Technical Services | 2.1% | 2.7% | 3.1% | 3.7% | 4.1% | 4.2% | 5.1% | 5.7% | 6.5% | 6.3% | 6.2% | 6.1% | 6.1% | 6.2% | 6.2% | 6.6% | 6.3% | 6.1% | 5.8% |
| Administrative and Support Services | 0.8% | 0.9% | 1.0% | 1.0% | 1.3% | 1.4% | 1.8% | 2.0% | 2.1% | 1.9% | 2.0% | 1.3% | 1.3% | 1.4% | 1.2% | 1.3% | 2.5% | 3.0% | 3.1% |
| Public Administration and Safety | 8.2% | 9.1% | 7.4% | 7.5% | 7.5% | 7.5% | 6.9% | 7.3% | 7.0% | 7.8% | 8.3% | 8.2% | 7.6% | 7.4% | 7.1% | 7.1% | 7.5% | 7.4% | 7.3% |
| Education and Training | 6.6% | 4.2% | 4.5% | 4.5% | 4.7% | 4.3% | 4.4% | 4.4% | 4.5% | 4.6% | 4.2% | 3.9% | 3.8% | 4.7% | 4.8% | 5.0% | 5.1% | 5.2% | 5.2% |
| Health Care and Social Assistance | 3.3% | 3.7% | 3.9% | 4.1% | 4.3% | 4.8% | 4.7% | 4.7% | 5.6% | 5.7% | 5.4% | 5.0% | 4.9% | 4.5% | 5.5% | 6.1% | 6.7% | 7.3% | 7.7% |
| Arts and Recreation Services | 2.6% | 2.6% | 2.9% | 3.5% | 2.9% | 2.7% | 2.9% | 2.4% | 2.5% | 2.3% | 2.2% | 2.2% | 2.5% | 2.4% | 2.3% | 2.3% | 2.1% | 2.3% | 2.2% |
| Other Services | 2.8% | 2.7% | 2.8% | 2.7% | 2.5% | 2.4% | 1.9% | 2.0% | 2.0% | 1.8% | 1.9% | 2.0% | 1.7% | 1.7% | 1.7% | 1.8% | 1.9% | 1.9% | 1.9% |
| **Total industries** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

Source: Economy ID, 2020

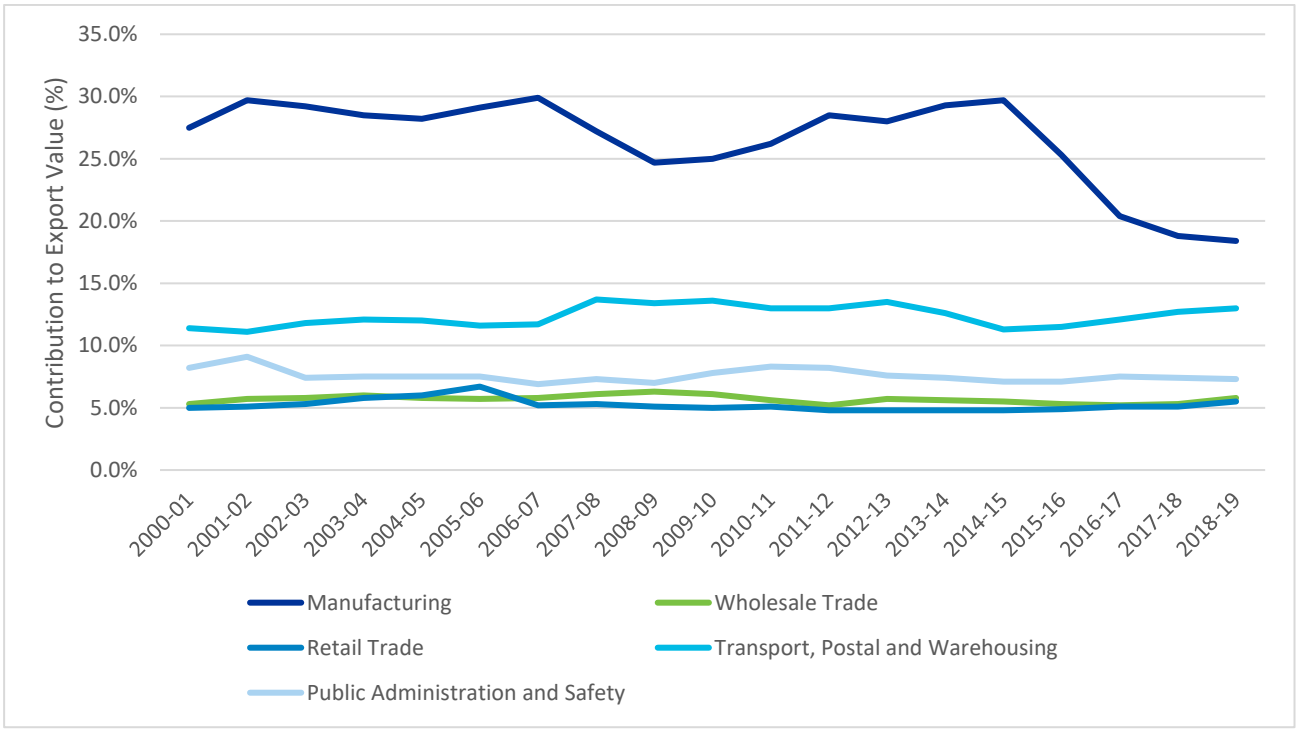
As identified in the preceding sections, the highest export industries in SEQ were:

- Manufacturing
- Transport, postal and warehousing
- Public administration and safety
- Wholesale trade and
- Retail trade.

These sectors contributed an estimated 57.4% of SEQ export value in 2000-01, decreasing to 50.0% in 2018-19.

Figure 5-15 below illustrates the highest export industries identified to be the largest contributors to exports from SEQ.

**Highest Export Industries (%), SEQ, 2000-01 to 2018-19**




Source: Economy ID, 2020

## Employment by Industry

Over the last two Censuses, the three most significant industries of employment within SEQ were:

- Health Care and Social Assistance: 12.5% of employment in 2011 and13.8% of employment in 2016
- Retail Trade: 11% of employment in 2011 and 10.5% of employment in 2016 and
- Construction: 9.0% of employment in 2011 and 9.8% of employment in 2016.

The table below details the employment by industry at the two digit ANZSIC level for SEQ between 2011 and 2016.

**Change in Industry of Employment, SEQ, 2011 - 2016**

| | 2011 | 2016 | % Change(2011-16) |
|---|---|---|---|
| Agriculture, Forestry and Fishing | 0.9% | 1.1% | 0.2% |
| Mining | 1.0% | 0.8% | -0.1% |
| Manufacturing | 9.0% | 6.5% | -2.5% |
| Electricity, Gas, Water and Waste Services | 1.1% | 1.0% | -0.1% |
| Construction | 9.0% | 9.8% | 0.7% |
| Wholesale Trade | 4.1% | 2.9% | -1.1% |
| Retail Trade | 11.0% | 10.5% | -0.5% |
| Accommodation and Food Services | 7.1% | 7.7% | 0.6% |
| Transport, Postal and Warehousing | 5.4% | 5.3% | 0.0% |
| Information Media and Telecommunications | 1.5% | 1.5% | 0.0% |
| Financial and Insurance Services | 3.3% | 3.2% | -0.1% |
| Rental, Hiring and Real Estate Services | 2.0% | 2.3% | 0.3% |
| Professional, Scientific and Technical Services | 8.0% | 7.7% | -0.3% |
| Administrative and Support Services | 3.5% | 3.9% | 0.4% |
| Public Administration and Safety | 6.9% | 6.6% | -0.3% |
| Education and Training | 8.2% | 9.5% | 1.3% |
| Health Care and Social Assistance | 12.5% | 13.8% | 1.3% |
| Arts and Recreation Services | 1.7% | 1.9% | 0.2% |
| Other Services | 3.9% | 4.0% | 0.1% |
| **Total** | **1,356,670** | **1,484,995** | **1.8%** |

Source: Remplan (2020)

## D.2.2 Changes to the Role and Function of Ipswich City

This section details the changes in the role and function economically of Ipswich City, focusing on the changes overtime in the following economic indicators:

- Gross Regional Product
- Value added by industry
- Exports and Imports and
- Employment by Industry.

### Gross Regional Product

According to data published by Economy ID and modelled by National Institute of Economic and Industry Research (NIEIR), the real GRP of Ipswich City was estimated at $9,767 million in 2018-19, over double the GRP recorded in 2000-01. The average annual growth rate of real GRP for Ipswich City was 4.5% between 2000-01 and 2018-19, with the largest annual growth occurring in 2006-07 (10.3% increase). However, between 2017-18 and 2018-19, GRP declined by 2.0%.

Real gross state product (GSP) in Queensland increased from $191,720 million in 2000-01 to $351,669 million in 2018-19, representing 83% increase in GSP over 18 years, or average annual growth rate of 3.4%, lower than the growth

rate recorded in Ipswich City over the same period. In 2017-18, Ipswich City contributed with 2.9% to Queensland GSP.

The table below summarises the estimated real GRP in Ipswich City and Queensland between 2000-01 and 2018-19, including year on year percentage changes in growth.

**Estimates of Real GRP/GSP ($m) in Ipswich City and Queensland, 2000-01 to 2018-19**

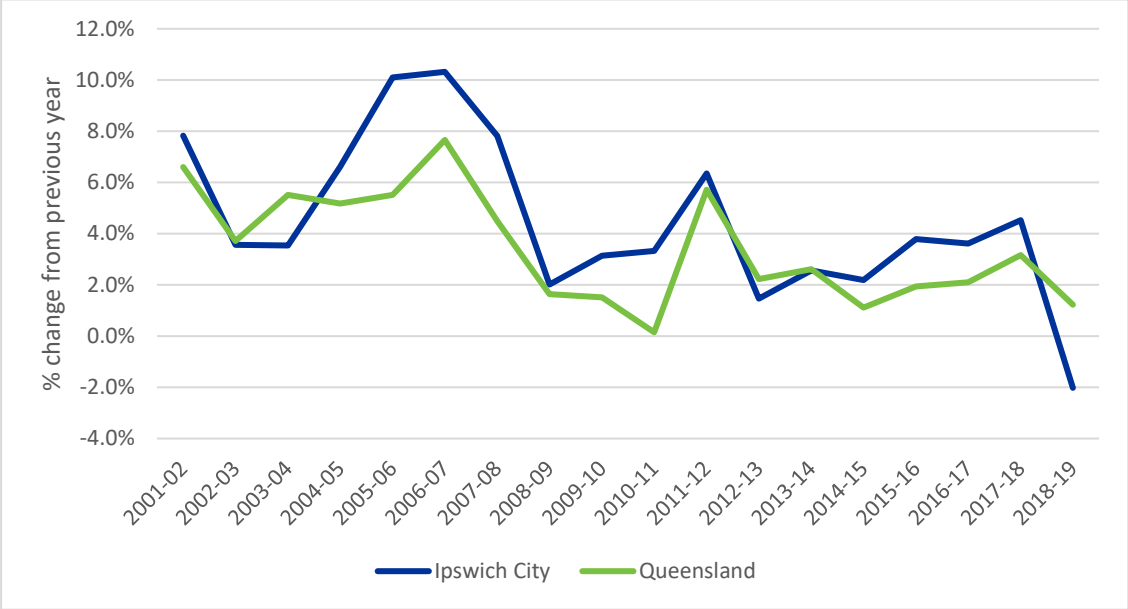
| | Ipswich City | | Queensland | | Ipswich City as % of Queensland |
|---|---|---|---|---|---|
| | **GRP ($m)** | **% change from previous year** | **GSP ($m)** | **% change from previous year** | |
| 2000-01 | 4,467 | - | 191,720 | - | 2.3% |
| 2001-02 | 4,817 | 7.8% | 204,365 | 6.6% | 2.4% |
| 2002-03 | 4,989 | 3.6% | 211,955 | 3.7% | 2.4% |
| 2003-04 | 5,165 | 3.5% | 223,629 | 5.5% | 2.3% |
| 2004-05 | 5,507 | 6.6% | 235,203 | 5.2% | 2.3% |
| 2005-06 | 6,064 | 10.1% | 248,152 | 5.5% | 2.4% |
| 2006-07 | 6,689 | 10.3% | 267,153 | 7.7% | 2.5% |
| 2007-08 | 7,212 | 7.8% | 279,152 | 4.5% | 2.6% |
| 2008-09 | 7,357 | 2.0% | 283,741 | 1.6% | 2.6% |
| 2009-10 | 7,588 | 3.1% | 288,049 | 1.5% | 2.6% |
| 2010-11 | 7,841 | 3.3% | 288,488 | 0.2% | 2.7% |
| 2011-12 | 8,339 | 6.4% | 304,991 | 5.7% | 2.7% |
| 2012-13 | 8,462 | 1.5% | 311,804 | 2.2% | 2.7% |
| 2013-14 | 8,678 | 2.6% | 319,968 | 2.6% | 2.7% |
| 2014-15 | 8,868 | 2.2% | 323,515 | 1.1% | 2.7% |
| 2015-16 | 9,204 | 3.8% | 329,793 | 1.9% | 2.8% |
| 2016-17 | 9,536 | 3.6% | 336,716 | 2.1% | 2.8% |
| 2017-18 | 9,968 | 4.5% | 347,393 | 3.2% | 2.9% |
| 2018-19 | 9,767 | -2.0% | 351,669 | 1.2% | 2.8% |

Source: Economy ID, 2020

Over the past 18 years, the growth in real GRP in Ipswich City typically exceeded real GSP growth in Queensland, except for 2003-04, 2012-13, 2013-14 and 2018-19. Ipswich City's rate of real GRP growth was particularly high in the 2005-06 to 2007-08 period, both in terms of year-on-year growth and growth relative to Queensland.

The figure below illustrates the year-on-year growth for real GRP in Ipswich City and real GSP growth in Queensland between 2000-01 and 2017-18.

**Annual Growth in Real GRP/GSP in Ipswich City and Queensland, 2001-02 to 2018-19**




Source: Economy ID, 2020

## Value Added

Value added by industry is an indicator of business productivity in Ipswich City. It demonstrates how productive each industry sector is at increasing the value of its inputs. Total value added in Ipswich City increased from $3,738.3 million in 2000-01 to $8,128.8 million in 2017-18, or by 4.5% per annum. Year on year growth in value added was highest in Ipswich City in the 2004-05 to 2007-08 period, with growth averaging 8.2% per annum. The sectors which made the most significant contributions to value added in Ipswich City were manufacturing, public administration and safety, construction, health care and social assistance, and education and training.

From 2000-01 to 2007-08 manufacturing was the largest industry of value added for Ipswich City. Between 2008-09 and 2017-18 manufacturing was replaced by construction as the largest industry of value added. Over this period, the manufacturing and construction sectors recorded an average contribution to Ipswich City value added of 16.8% and 14.6% per annum, respectively. In the most recent year, manufacturing was the largest industry of value added, with value add of $1,189.1 million. This is likely a result of the multiple advanced manufacturing facilities in Ipswich, including the manufacturing of trailers and livestock equipment, construction materials, aluminium products, and water/wastewater technologies.

Following manufacturing and construction, public administration and safety (which includes the defence sector) was the third largest industry of value added over this period in Ipswich City. Public administration and safety sector contributed $622.4 million in 2000-01 but decreased to $845.8 million in 2018-19, experiencing a peak in 2017-18 with $1,004.9 million. Over this period, the public administration and safety sector recorded an average contribution to Ipswich City value added of 12.4% per annum.

The health care and social assistance industry have also been identified as a significant contributor to Ipswich City's total value added. This industry contributed $811.3 million or 8.2% to value added for Ipswich in 2018-19. There was a significant increase in value added from health care and social assistance sector in 2014-15, with an average annual growth rate of 7.4% between 2014-15 and 2018-19. This increase can be largely attributed to the opening of Mater Private Hospital in Springfield in October 2015.

The fifth largest contributing industry to value added for Ipswich City is education and training. This industry contributed an average of $440.3 million per annum to value added and accounted for 7.3% of Ipswich City total value added. The value added by industry for Ipswich City is outlined in the table below.

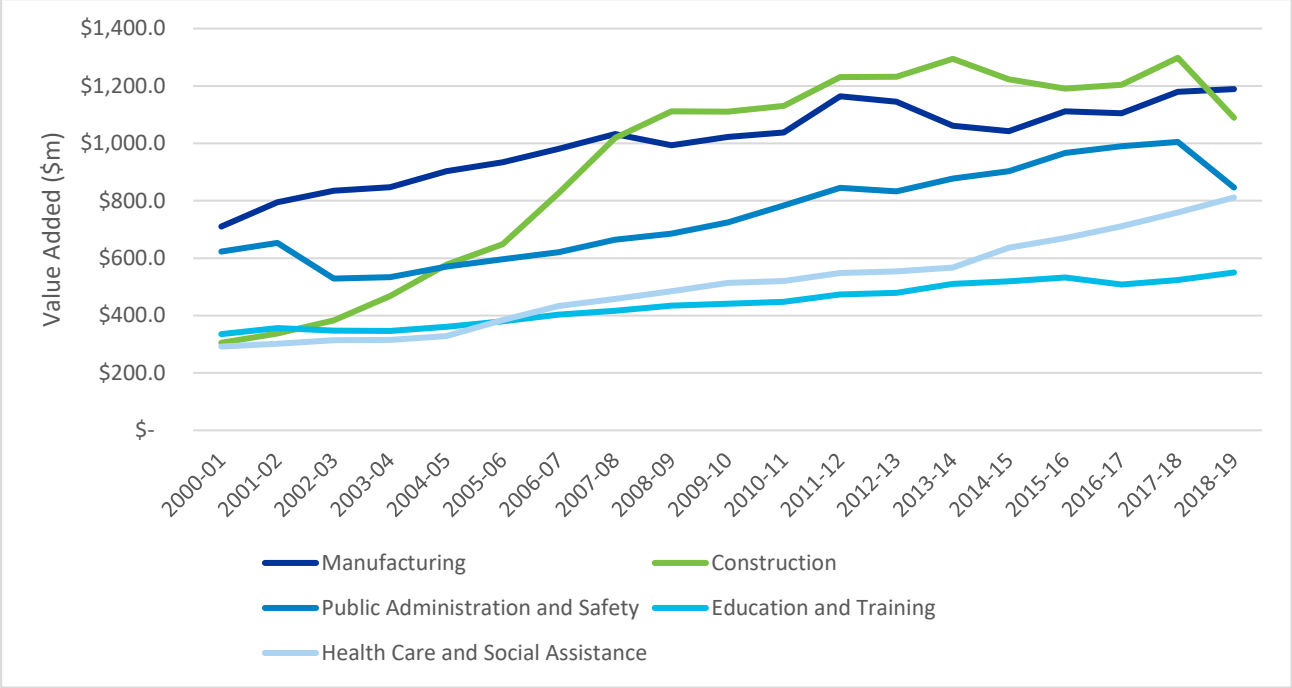
### Value Added by Industry, Ipswich City ($m), 2000-01 to 2018-19

| Industry | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Agriculture, Forestry and Fishing | 61.0 | 60.9 | 55.4 | 56.8 | 61.1 | 63.0 | 62.7 | 64.0 | 68.6 | 69.3 | 67.9 | 72.1 | 80.2 | 84.3 | 91.4 | 90.9 | 91.0 | 98.5 | 100.0 |
| Mining | 51.9 | 55.5 | 51.6 | 55.4 | 60.3 | 57.6 | 47.2 | 53.7 | 59.7 | 62.9 | 73.3 | 118.5 | 172.9 | 144.5 | 140.9 | 132.4 | 128.4 | 124.9 | 128.2 |
| Manufacturing | 710.1 | 794.2 | 834.8 | 847.1 | 903.2 | 933.9 | 980.6 | 1,032.6 | 993.5 | 1,022.3 | 1,038.1 | 1,163.5 | 1,145.3 | 1,061.7 | 1,042.1 | 1,111.4 | 1,105.2 | 1,179.4 | 1,189.1 |
| Electricity, Gas, Water and Waste Services | 192.2 | 210.0 | 223.6 | 220.7 | 214.0 | 234.7 | 274.9 | 265.5 | 269.7 | 267.3 | 268.7 | 255.1 | 265.4 | 297.7 | 338.1 | 364.3 | 398.3 | 391.6 | 362.9 |
| Construction | 305.1 | 337.8 | 382.7 | 468.4 | 576.8 | 649.0 | 826.6 | 1,018.6 | 1,111.2 | 1,110.7 | 1,130.3 | 1,231.3 | 1,231.8 | 1,294.5 | 1,223.6 | 1,190.7 | 1,203.9 | 1,298.2 | 1,088.7 |
| Wholesale Trade | 148.3 | 167.7 | 180.3 | 189.3 | 194.5 | 207.5 | 208.5 | 223.6 | 221.9 | 222.0 | 220.9 | 241.1 | 257.5 | 257.9 | 259.4 | 270.9 | 303.5 | 299.1 | 292.2 |
| Retail Trade | 191.6 | 205.2 | 218.3 | 241.6 | 259.8 | 281.0 | 310.3 | 339.8 | 336.0 | 357.3 | 381.4 | 411.0 | 415.9 | 434.4 | 452.9 | 465.0 | 484.5 | 554.6 | 558.6 |
| Accommodation and Food Services | 92.1 | 94.0 | 100.2 | 103.0 | 111.4 | 126.4 | 133.3 | 144.6 | 143.3 | 151.9 | 163.6 | 173.6 | 171.1 | 180.2 | 184.8 | 191.0 | 194.0 | 201.4 | 220.6 |
| Transport, Postal and Warehousing | 171.6 | 201.4 | 243.4 | 273.3 | 303.2 | 308.7 | 282.8 | 311.0 | 318.1 | 311.3 | 313.0 | 321.8 | 335.0 | 325.5 | 332.3 | 350.6 | 401.7 | 445.4 | 454.5 |
| Information Media and Telecommunications | 32.3 | 33.7 | 36.3 | 32.9 | 37.6 | 40.8 | 42.2 | 46.6 | 42.6 | 41.6 | 40.7 | 40.2 | 41.4 | 45.8 | 50.1 | 54.3 | 57.1 | 55.5 | 73.5 |
| Financial and Insurance Services | 164.2 | 176.7 | 184.1 | 194.3 | 209.2 | 231.2 | 271.0 | 280.9 | 288.2 | 289.8 | 299.9 | 340.1 | 367.4 | 372.7 | 398.0 | 457.9 | 501.1 | 530.6 | 525.2 |
| Rental, Hiring and Real Estate Services | 73.3 | 82.6 | 91.3 | 97.9 | 105.9 | 123.1 | 130.9 | 130.4 | 129.8 | 138.1 | 155.8 | 145.8 | 156.4 | 176.4 | 177.4 | 192.2 | 197.7 | 186.3 | 184.5 |
| Professional, Scientific and Technical Services | 97.5 | 114.0 | 125.1 | 142.4 | 150.9 | 167.6 | 187.7 | 195.7 | 193.2 | 214.8 | 221.2 | 236.0 | 243.0 | 251.0 | 253.5 | 271.8 | 298.2 | 302.9 | 301.0 |
| Administrative and Support Services | 94.3 | 109.3 | 111.4 | 107.1 | 115.3 | 130.1 | 135.7 | 148.6 | 158.1 | 174.4 | 176.0 | 165.0 | 160.5 | 172.4 | 176.3 | 177.2 | 196.2 | 200.2 | 229.3 |
| Public Administration and Safety | 622.4 | 653.5 | 528.8 | 533.2 | 570.2 | 595.7 | 621.1 | 663.8 | 685.0 | 725.0 | 783.7 | 845.0 | 832.7 | 876.9 | 902.9 | 966.4 | 989.9 | 1,004.9 | 845.8 |
| Education and Training | 335.2 | 355.8 | 347.0 | 346.8 | 361.2 | 380.1 | 403.0 | 416.7 | 434.6 | 441.6 | 448.0 | 473.6 | 479.5 | 509.9 | 519.0 | 533.0 | 507.5 | 523.7 | 550.1 |
| Health Care and Social Assistance | 291.8 | 301.7 | 313.9 | 315.3 | 328.4 | 384.6 | 433.4 | 457.7 | 485.0 | 513.4 | 520.0 | 548.3 | 553.8 | 567.2 | 636.0 | 669.4 | 711.0 | 758.8 | 811.3 |
| Arts and Recreation Services | 21.4 | 22.6 | 22.8 | 20.4 | 31.4 | 36.3 | 37.1 | 40.1 | 34.1 | 28.5 | 30.5 | 28.5 | 31.0 | 31.2 | 31.0 | 29.8 | 30.0 | 39.3 | 51.4 |
| Other Services | 81.8 | 87.0 | 96.6 | 93.5 | 92.2 | 99.2 | 100.4 | 107.5 | 119.1 | 125.8 | 118.8 | 133.1 | 135.9 | 140.0 | 143.2 | 136.9 | 139.9 | 147.6 | 161.9 |
| **Total industries** | **3,738.3** | **4,063.6** | **4,147.4** | **4,339.3** | **4,686.8** | **5,050.4** | **5,489.3** | **5,941.2** | **6,091.5** | **6,267.9** | **6,451.9** | **6,943.4** | **7,076.7** | **7,224.4** | **7,352.6** | **7,656.2** | **7,939.1** | **8,342.7** | **8,128.8** |

Source: Economy ID, 2020

The figure below outlines the growth in value added of the highest contributing industries in Ipswich City, namely, manufacturing, public administration and safety, construction, health care and social assistance and education and training. Combined, these five industries accounted for $4,485.0 million of value added or 55.2% of the total value added recorded in Ipswich City in the 2018-19 financial year. The figure also illustrates the rapid increase in construction industry value added over this period. The manufacturing, public administration and safety, health care and social assistance and education and training industries all experienced steady growth and remained in the top performing industries in Ipswich City from 2000-01 to 2018-19.

**Highest contributing industries to value added in Ipswich City, 2000-01 to 2018-19**




Source: Economy ID, 2020

## Imports and Exports

Imports by industry are sales of goods and services from industries located outside the Ipswich City to resident households, businesses, and other organisations within the area.

The total value of imports in Ipswich City was $3,578.8 million in 2000-01 and increased to $9,474.6 million in 2018-19, representing an average annual growth rate of 5.7% per annum. The highest sectors contributing to the value of total imports in Ipswich City were manufacturing, financial and insurance services, health care and social assistance, professional, scientific and technical services and agriculture, forestry and fishing.

The value of imports by industry in Ipswich City in the 2000-01 to 2018-19 period are outlined in the table below.

### Imports by Industry in Ipswich City ($m), 2000-01 to 2018-19

| Industry | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Agriculture, Forestry and Fishing | 417.4 | 434.5 | 379.0 | 465.6 | 535.2 | 615.3 | 531.8 | 599.5 | 675.8 | 628.9 | 683.3 | 758.7 | 728.0 | 676.1 | 701.6 | 699.0 | 664.1 | 670.6 | 630.6 |
| Mining | 280.2 | 290.4 | 324.2 | 312.8 | 398.9 | 211.2 | 324.9 | 602.2 | 522.5 | 455.0 | 472.3 | 548.8 | 596.4 | 614.9 | 497.2 | 489.9 | 413.5 | 403.4 | 370.4 |
| Manufacturing | 1,158.3 | 1,233.6 | 1,361.7 | 1,444.0 | 1,576.0 | 1,718.3 | 1,826.4 | 2,026.3 | 2,064.3 | 2,050.2 | 2,262.6 | 2,621.4 | 2,644.8 | 2,586.3 | 2,617.3 | 2,809.9 | 2,916.1 | 3,123.3 | 3,016.7 |
| Electricity, Gas, Water and Waste Services | 63.4 | 70.2 | 86.9 | 72.8 | 72.5 | 82.2 | 84.3 | 86.3 | 92.8 | 94.4 | 97.5 | 127.4 | 145.3 | 135.9 | 136.4 | 158.4 | 152.9 | 167.6 | 186.2 |
| Construction | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Wholesale Trade | 145.1 | 161.5 | 191.5 | 191.5 | 212.5 | 268.8 | 293.8 | 284.9 | 275.8 | 295.1 | 308.1 | 352.7 | 362.3 | 337.8 | 327.2 | 322.6 | 359.1 | 386.6 | 356.1 |
| Retail Trade | 23.5 | 29.0 | 86.7 | 75.0 | 62.1 | 106.5 | 132.1 | 130.1 | 105.5 | 114.9 | 115.8 | 102.7 | 110.4 | 108.6 | 109.9 | 88.1 | 108.5 | 82.1 | 107.6 |
| Accommodation and Food Services | 174.9 | 166.4 | 241.5 | 226.1 | 133.1 | 144.0 | 136.9 | 150.4 | 131.0 | 116.8 | 119.3 | 138.5 | 142.7 | 129.8 | 151.2 | 135.9 | 175.6 | 164.7 | 138.2 |
| Transport, Postal and Warehousing | 234.2 | 282.3 | 327.3 | 342.6 | 337.5 | 345.5 | 443.1 | 485.0 | 457.3 | 487.1 | 523.9 | 592.4 | 570.6 | 513.4 | 481.2 | 469.1 | 470.4 | 445.5 | 395.7 |
| Information Media and Telecommunications | 100.3 | 135.2 | 160.1 | 174.5 | 184.3 | 245.0 | 269.3 | 277.1 | 270.9 | 303.2 | 326.0 | 348.8 | 355.6 | 364.0 | 391.8 | 385.9 | 384.1 | 414.1 | 408.2 |
| Financial and Insurance Services | 198.7 | 243.9 | 357.3 | 380.0 | 382.5 | 586.5 | 640.8 | 685.0 | 624.5 | 693.9 | 736.1 | 710.0 | 765.1 | 819.3 | 884.4 | 901.6 | 998.9 | 1,048.8 | 1,114.5 |
| Rental, Hiring and Real Estate Services | 14.7 | 15.0 | 14.8 | 17.0 | 15.1 | 17.0 | 20.1 | 22.8 | 34.9 | 30.5 | 26.3 | 29.6 | 30.1 | 27.5 | 25.6 | 34.7 | 49.8 | 46.5 | 53.2 |
| Professional, Scientific and Technical Services | 278.4 | 294.6 | 284.3 | 286.2 | 312.9 | 326.8 | 358.1 | 408.6 | 433.2 | 475.0 | 543.5 | 625.6 | 640.3 | 601.0 | 558.2 | 561.3 | 609.8 | 654.6 | 664.1 |
| Administrative and Support Services | 84.3 | 87.5 | 89.2 | 98.0 | 113.2 | 136.8 | 169.6 | 187.3 | 160.8 | 147.2 | 151.2 | 182.0 | 175.8 | 171.3 | 180.9 | 182.8 | 166.0 | 181.4 | 163.0 |
| Public Administration and Safety | 199.4 | 182.4 | 205.8 | 209.5 | 233.6 | 236.5 | 259.0 | 271.0 | 323.2 | 334.0 | 356.6 | 371.2 | 404.1 | 410.7 | 391.5 | 405.6 | 445.1 | 472.0 | 511.3 |
| Education and Training | 56.3 | 85.9 | 133.9 | 150.7 | 174.9 | 198.3 | 154.0 | 145.4 | 142.1 | 165.6 | 185.3 | 198.5 | 215.9 | 242.3 | 275.6 | 298.5 | 357.7 | 342.5 | 315.7 |
| Health Care and Social Assistance | 36.8 | 43.1 | 107.5 | 124.7 | 156.4 | 306.6 | 320.9 | 330.4 | 311.1 | 348.0 | 387.1 | 377.8 | 434.9 | 474.4 | 489.8 | 499.9 | 592.0 | 666.1 | 768.7 |
| Arts and Recreation Services | 38.8 | 40.9 | 69.4 | 102.3 | 95.2 | 141.0 | 173.7 | 170.4 | 182.9 | 202.1 | 196.2 | 209.8 | 207.4 | 237.7 | 251.7 | 243.9 | 263.8 | 259.6 | 250.5 |
| Other Services | 74.2 | 67.3 | 64.0 | 56.6 | 41.5 | 48.9 | 76.0 | 74.3 | 45.8 | 37.5 | 29.1 | 26.7 | 25.0 | 31.3 | 26.3 | 24.7 | 24.1 | 24.0 | 23.9 |
| **Total industries** | **3,578.8** | **3,863.6** | **4,485.1** | **4,730.0** | **5,037.4** | **5,735.1** | **6,214.7** | **6,937.1** | **6,854.4** | **6,979.5** | **7,520.3** | **8,322.6** | **8,554.7** | **8,482.2** | **8,497.9** | **8,711.6** | **9,151.6** | **9,553.4** | **9,474.6** |

Source: Economy ID, 2020

Between 2000-01 to 2018-19 the largest import value for Ipswich City has consistently been the manufacturing industry. The manufacturing industry experienced an average annual growth rate of 5.6% per annum between 2000-01 and 2018-19, accounting for 32.4% of total imports to Ipswich City in 2018-19. As outlined in in the preceding sections, there is a wide range of goods manufactured within the Ipswich City, so it is possible these imports may be for intermediate goods in the manufacturing supply chain.

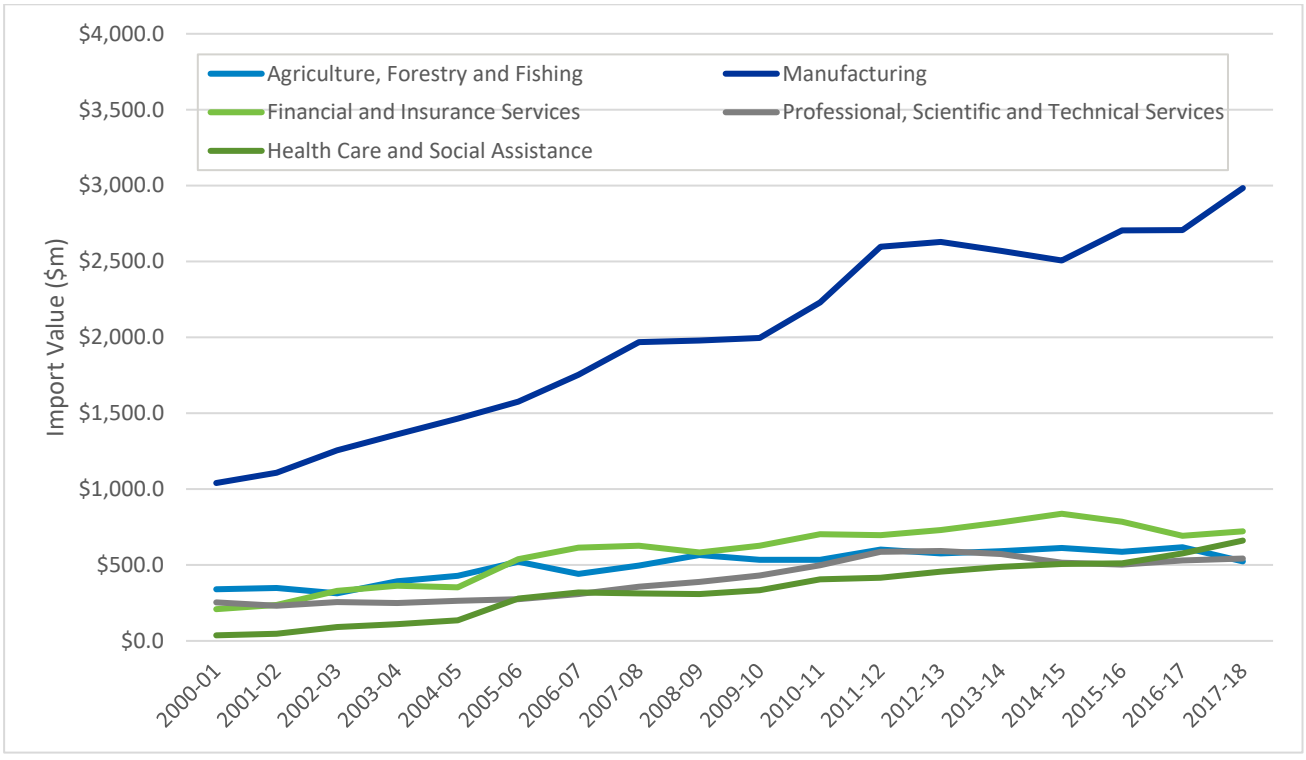
Financial and insurance services is also a key contributor of imports to Ipswich City, increasing from $198.7 million in 2000-01 to $1,114.5 million in 2018-19. This industry is closely followed by the agriculture, forestry and fishing industry in contribution to imports for the City. Whilst this sector experienced marginally slower growth of over the last 18 years, the import value remains high and totals $630.6 million in 2018-19.

Combined, the manufacturing, financial and insurance services and the agriculture, forestry and fishing industries accounted for 50.3% of all imports to the City in 2018-19 and are therefore important to understanding the economy of Ipswich City.

Additionally, the import of health care and social assistance is also significant, accounting for 8.1% of Ipswich City imports. Another notable industry is the imports of professional scientific and technical services, which accounted for $664.1 million in imports in 2018-19. It is anticipated the import of these services is related to the delivery of the Springfield Hospital and surrounding health precinct.

The highest industries which contributed to imports to Ipswich City between 2000-01 to 2018-19 is illustrated in the figure below.

**Highest Import Industries ($m), Ipswich City, 2000-01 to 2018-19**




Source: Economy ID, 2020

The value of exports from Ipswich City is estimated to have increased from $3,724.2 million in 2000-01 to $4,941.9 million in 2018-19, representing an average annual growth rate of 1.8%. Year on year growth in the value of exports was highest in 2004-05 (12.5% growth) and 2011-12 (16.3% growth).

The most significant sectors in terms of export value in Ipswich City were

- Manufacturing

- Transport, postal and warehousing
- Financial and insurance services
- Public administration and safety
- Mining and
- Electricity, gas, water and waste,

The most notable export industry within Ipswich City is manufacturing. Between 2001-01 and 2018-19, manufacturing exports from Ipswich City account for an average of 49.7% of Ipswich City's total exports. The manufacturing industry contributed $2,285.7 million to exports from Ipswich City in 2018-19. Manufacturing was also the largest import industry for Ipswich City. It is likely that manufacturing inputs are being imported to Ipswich City and exported as a final product for consumption.

Transport, postal and warehousing industry is also a substantial contributor to exports in Ipswich City. This industry has more than doubled in export value from $139.2 million in 2001-01 to $456.0 million in 2018-19 and has an average contribution to Ipswich City exports of 6.8% per annum.

Interestingly, whilst the public administration and safety industry was the second largest export sector in 2018-19, , this sector experienced a declined from the peak experienced in 2017-18 with export value of $1,149.0 million.

Mining industries are also a key contributor to exports, accounting for $323.9million or 6.6% of all Ipswich City exports in 2018-19. A similar trend is prevalent in the electricity, gas, water and waste services industries, which are also identified to be a major contributor to exports for Ipswich City, contributing $2,464.5 million between 2000-01 and 2018-19.

The value of exports by industry in Ipswich City are outlined in the table below.

### Exports by Industry in Ipswich City ($m), 2000-01 to 2018-19

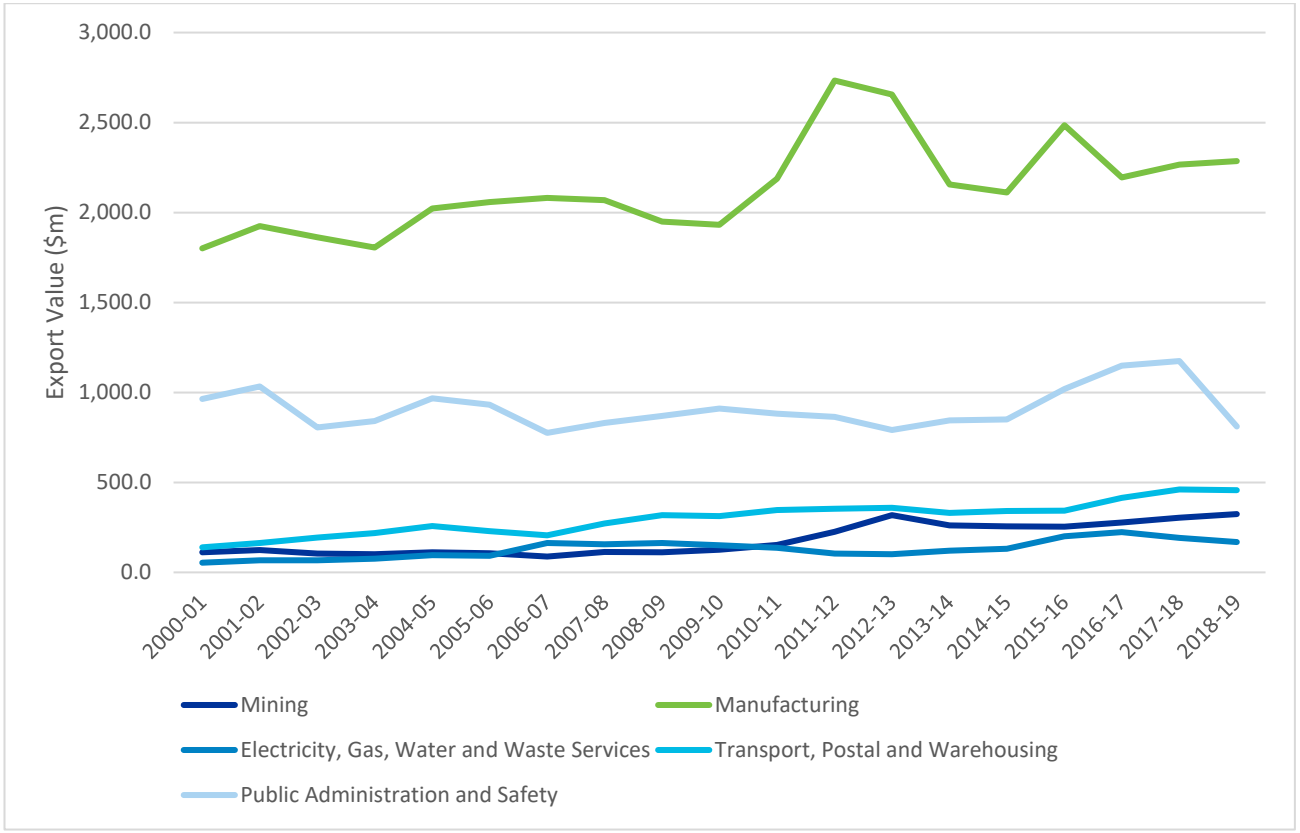
| Industry | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Agriculture, Forestry and Fishing | 37.9 | 34.7 | 32.2 | 29.1 | 31.7 | 31.4 | 33.2 | 27.1 | 25.0 | 25.4 | 27.3 | 34.1 | 39.8 | 40.9 | 42.7 | 46.8 | 48.9 | 51.3 | 48.1 |
| Mining | 112.3 | 124.0 | 104.9 | 101.4 | 111.9 | 105.5 | 87.8 | 113.8 | 111.4 | 125.7 | 152.9 | 226.0 | 317.7 | 261.2 | 256.3 | 254.6 | 277.0 | 303.2 | 323.9 |
| Manufacturing | 1,800.6 | 1,924.9 | 1,861.8 | 1,804.5 | 2,021.7 | 2,057.8 | 2,080.3 | 2,068.7 | 1,948.7 | 1,931.7 | 2,187.6 | 2,733.4 | 2,655.0 | 2,154.9 | 2,110.4 | 2,484.7 | 2,195.4 | 2,265.7 | 2,285.7 |
| Electricity, Gas, Water and Waste Services | 53.8 | 67.4 | 67.7 | 76.1 | 96.3 | 92.2 | 163.7 | 155.4 | 162.6 | 150.6 | 136.7 | 105.2 | 101.0 | 121.1 | 130.6 | 200.5 | 223.7 | 192.1 | 167.8 |
| Construction | 8.4 | 7.0 | 7.2 | 7.4 | 8.7 | 10.7 | 15.1 | 16.9 | 17.8 | 15.3 | 16.0 | 16.7 | 16.7 | 16.8 | 15.6 | 14.8 | 16.4 | 17.4 | 16.4 |
| Wholesale Trade | 84.3 | 96.4 | 80.1 | 88.5 | 77.7 | 79.6 | 85.4 | 85.9 | 82.2 | 81.4 | 82.2 | 93.6 | 115.0 | 109.5 | 107.5 | 115.3 | 142.2 | 137.4 | 126.4 |
| Retail Trade | 85.1 | 69.2 | 53.6 | 62.2 | 76.6 | 106.4 | 80.8 | 81.3 | 77.5 | 76.7 | 83.9 | 106.8 | 84.7 | 91.1 | 93.3 | 98.8 | 96.4 | 144.5 | 153.0 |
| Accommodation and Food Services | 33.7 | 34.9 | 37.3 | 37.9 | 50.3 | 43.3 | 46.8 | 61.3 | 90.9 | 98.3 | 95.6 | 114.8 | 99.4 | 81.3 | 54.2 | 60.1 | 58.8 | 59.4 | 87.2 |
| Transport, Postal and Warehousing | 139.2 | 162.3 | 192.9 | 218.3 | 257.7 | 228.4 | 205.8 | 271.7 | 317.2 | 313.3 | 346.0 | 354.3 | 359.1 | 331.2 | 341.5 | 343.4 | 413.8 | 460.7 | 456.0 |
| Information Media and Telecommunications | 14.5 | 11.8 | 12.2 | 10.1 | 9.9 | 11.1 | 12.4 | 11.6 | 10.3 | 9.4 | 8.6 | 8.4 | 9.3 | 10.1 | 11.0 | 12.1 | 14.5 | 15.2 | 18.9 |
| Financial and Insurance Services | 19.0 | 18.2 | 18.5 | 18.9 | 20.5 | 24.9 | 30.4 | 28.0 | 26.4 | 25.4 | 27.1 | 32.5 | 36.7 | 38.2 | 40.9 | 46.2 | 49.7 | 53.3 | 53.5 |
| Rental, Hiring and Real Estate Services | 15.1 | 14.8 | 15.3 | 16.3 | 20.6 | 27.1 | 32.9 | 27.8 | 19.7 | 19.7 | 30.4 | 32.0 | 27.2 | 29.4 | 34.5 | 22.2 | 21.0 | 20.0 | 19.2 |
| Professional, Scientific and Technical Services | 17.8 | 20.6 | 22.8 | 25.2 | 26.9 | 30.9 | 37.5 | 41.8 | 44.2 | 40.4 | 40.5 | 43.5 | 44.4 | 45.3 | 46.5 | 49.6 | 52.0 | 52.3 | 52.7 |
| Administrative and Support Services | 10.4 | 12.0 | 15.6 | 19.2 | 13.9 | 14.0 | 14.7 | 17.8 | 43.7 | 63.0 | 28.7 | 18.4 | 19.0 | 23.9 | 30.8 | 25.9 | 40.6 | 38.7 | 53.8 |
| Public Administration and Safety | 964.3 | 1,032.8 | 805.3 | 840.8 | 967.7 | 932.1 | 775.1 | 829.8 | 869.6 | 910.1 | 882.8 | 863.5 | 791.7 | 844.2 | 849.5 | 1,018.9 | 1,149.0 | 1,174.5 | 810.2 |
| Education and Training | 169.2 | 93.9 | 70.2 | 63.0 | 76.0 | 85.9 | 88.9 | 97.6 | 105.6 | 94.5 | 81.6 | 100.7 | 102.6 | 120.1 | 109.8 | 108.6 | 79.8 | 85.8 | 91.5 |
| Health Care and Social Assistance | 107.3 | 91.3 | 71.2 | 54.5 | 45.9 | 44.6 | 69.1 | 76.0 | 81.1 | 72.6 | 63.6 | 74.2 | 66.9 | 46.0 | 55.9 | 59.3 | 60.7 | 62.1 | 62.6 |
| Arts and Recreation Services | 26.4 | 17.6 | 9.6 | 6.3 | 8.3 | 9.5 | 10.0 | 10.2 | 8.5 | 7.0 | 7.3 | 6.5 | 7.6 | 7.6 | 7.6 | 7.4 | 7.2 | 9.2 | 12.0 |
| Other Services | 24.9 | 29.1 | 32.1 | 21.6 | 18.2 | 19.6 | 17.2 | 21.8 | 23.6 | 29.7 | 20.3 | 57.5 | 69.1 | 72.4 | 71.1 | 68.8 | 67.8 | 78.9 | 102.9 |
| **Total industries** | **3,724.2** | **3,862.7** | **3,510.6** | **3,501.0** | **3,940.3** | **3,955.0** | **3,887.1** | **4,044.5** | **4,066.2** | **4,090.1** | **4,318.9** | **5,022.0** | **4,963.1** | **4,445.2** | **4,409.6** | **5,038.3** | **5,014.8** | **5,221.8** | **4,941.9** |

Source: Economy ID, 2020

As previously identified, the highest export industries in Ipswich City were manufacturing, public administration and safety, transport, postal and warehousing, electricity, gas, water and waste services and the mining industry. The value of exports from these sectors was estimated at $3,070.2million in 2000-01, increasing to 4,043.6 million in 2018-19. These sectors contributed an estimated 81.8% to the value of total exports in 2018-19.

The Figure below illustrates the top five industries identified to be the largest contributors to exports from Ipswich City.

**Highest Export Industries ($m), Ipswich City, 2000-01 to 2018-19**




Source: Economy ID, 2020

## Employment by Industry

Working population employment by industry trends were investigated at the two-digit ANZSIC level for Ipswich City as of the 2011 and 2016 Censuses to provide an overview of the key industries of employment within Ipswich City.

Over the last two Censuses, the three most significant industries of employment within Ipswich City were:

- Preschool and Education: 8.4% of employment in 2011 and 9.2% of employment in 2016
- Other Store-Based Retailing: 5.9% of employment in 2011 and 5.5% of employment in 2016 and
- Food and Beverage Services: 5.6% of employment in 2011 and 6.2% of employment in 2016.

Section 6 provides a breakdown of the historic and projected employment by industry trends in Ipswich City and each SA2.

### D.2.3 Changes to Freight Networks

The SEQ Strategic Freight Network includes:

- Port of Brisbane, including terminal facilities, shipping channel and Port of Brisbane Motorway
- A network of airports connecting SEQ to regions throughout Australia and the rest of the world, including major airports such as Brisbane Airport, Gold Coast Airport, Sunshine Coast Airport, Archerfield Airport and the region's newest airport Toowoomba Wellcamp Airport
- Transport and logistics hubs including:
  - North East corridor (areas adjacent to or readily accessible from the Gateway Motorway including Australia TradeCoast, Eagle Farm, Hendra, Nudgee, Northgate, Geebung, Virginia and Zillmere)
  - South Western corridor (areas adjacent to or readily accessible from the Ipswich Motorway including Acacia Ridge, Acacia Ridge Rail Terminal (ARRT), Archerfield, Rocklea, Darra, Wacol, Richlands, Carole Park, Riverview, Dinmore, Redbank and Amberley with a subsidiary hub located along the Logan Motorway including Browns Plains and Parkinson/Larapinta)
  - Southern and Gold Coast corridor (areas adjacent to or readily accessible from the Pacific Motorway between Beenleigh and Nerang including Staplyton, Yatala, Coomera, Oxenford and Gaven and along Southport-Nerang Road at Molendinar, Ernest and Ashmore) and
  - Sunshine Coast corridor (areas adjacent to or readily accessible from Maroochydore Road and the Bruce Highway at Buderim, Kunda Park, Forest Glen, Woombye, Nambour and Yandina)
    - Major rail connections including:
  - Dual gauge rail link from the ARRT to the Port of Brisbane
  - Standard gauge railway linking the ARRT to the National Interstate Rail Network and interstate ports (including Sydney, Melbourne and Fremantle)
  - Narrow gauge rail network, connecting SEQ to regions throughout Queensland
    - Major road connections including:
  - Major highways (including Warrego, Cunningham, Brisbane Valley, D'Aguilar Sunshine, Pacific and Bruce Highways)
  - Major urban and motorway corridors including Brisbane Urban Corridor and Ipswich, Logan, Gateway and Pacific Motorways
  - Arterial road linkages between Acacia Ridge and motorways (including Ipswich Motorway and Logan Motorway) and the Brisbane Urban Corridor
  - Maroochydore Road connecting the Bruce Highway and Sunshine Motorway and
  - Southport Nerang Road.

Ipswich City has high volumes of freight passing through either destined for or returning from the Port of Brisbane (the primary regional export port) or the major Regular Public Transport (RPT) airports in SEQ. SEQ is anticipated to be impacted by Inland Rail and other major freight and logistics investments that will enable the movement of interstate and intrastate freight.

The major regional intermodal terminals in operation or proposed are Brisbane Multimodal Terminals (BMT), SCT Intermodal Terminal, Acacia Ridge Rail Terminal, Ebenezer Intermodal Terminal (proposed), InterlinkSQ Toowoomba (proposed) and Charlton Wellcamp Enterprise Area (CWEA) intermodal terminal (proposed).

Regional intermodal terminals often orientate towards the transport of freight in which the area has a significant export. For example, the proposed Toowoomba based terminals (InterlinkSQ and the CWEA Terminal) are therefore more likely to orientate towards the transport of bulk agricultural commodities such as cotton, beef and grain. However, terminals located in proximity to the Brisbane Metropolitan Area (such as the proposed Ebenezer Intermodal Terminal in Ipswich) are likely to facilitate the transport of containerised freight throughout the region.

Agricultural production from the Darling Downs – Maranoa, Toowoomba and Wide Bay SA4s is likely destined for the Rocklea markets in Brisbane, transported via the Cunningham Highway, Warrego Highway or the Ipswich Motorway. These markets are the largest fresh produce markets in SEQ and facilitate more than $1.3 billion in produce sales every year.

SEQ also contains two of the largest beef processing and manufacturing companies in Australia. The first is Teys whose SEQ abattoir is in Beenleigh, within Logan City LGA. It was estimated that Teys account for 21% of Queensland beef processing and capacity in 2018. This facility is directly connected to existing freight networks in Toowoomba via the Logan Motorway.

The second producer is Beef City in Dinmore, within Ipswich City. Beef City is owned and operated JBS Australia, JBS has been estimated to account for 33.6% of Queensland's total beef processing capacity. Both producers cause impacts for freight networks in SEQ as cattle need to be bought into Ipswich in order to reach the processing plants, and then requires the freight network to transport the final product for domestic distribution or for exports.

SEQ and Ipswich are used as a thoroughfare for exporting mined products from the Surat Basin to the Port of Brisbane for further distribution. Therefore, despite the exhausted resource deposits in SEQ there remains to be significant implications for freight networks as a result of natural resource extraction and exportation.

### D.2.4 Impact of Future Intermodal Facilities

Australia's population is anticipated to grow significantly over the next 40 years, with demand for freight forecasted to increase sharply. The existing road and rail freight network connecting the east coast of Australia are increasingly becoming congested and are expected to experience increased pressure over the next 40 years. Inland Rail is aims to facilitate the increasing demand for freight goods through eastern Australia. Inland Rail is the largest freight rail infrastructure project in Australia and aims to benefit Australians living in cities and regions[4]. Building Inland Rail will reduce costs, create jobs, take trucks off roads and make businesses and producers more competitive. Inland Rail is a 1,700km freight line between Melbourne and Brisbane, making it the largest freight rail infrastructure project in Australia[5]. Early works commenced in 2017 and, based on the 10-year delivery schedule developed in 2015, components of Inland Rail are anticipated to be in operation by 2025.

The Australian Government through the Australian Rail Track Corporation (ARTC) is delivering Inland Rail in partnership with the private sector. The dedicated freight network will transform the way goods are moved between Brisbane and Melbourne, and between the eastern states, support Australia's four richest farming regions and provide supply chain benefits and substantial cost savings for producers.

The development of Inland Rail has the potential to positively impact the national freight logistics market by:

- Facilitating a mode shift from road to rail for containerised freight along the Melbourne to Brisbane interstate freight corridor
- Facilitating a redirection of containerised freight destined to Australia away from Port of Melbourne (currently Australia's largest container port) to Port of Brisbane and
- Stimulating freight demand from sectors that are major consumers of freight because of a reduction in freight costs.

Figure 5-20 below shows the planned inland rail route servicing the East Coast of Australia.

[4] Australian Rail Track Corporation (2020), Frequently Asked Questions, accessed at https://inlandrail.artc.com.au/faqs, on 24 March 2020

[5] Australian Rail Track Corporation (2020), FAQs, accessed at https://inlandrail.artc.com.au/faqs/widgets/169777/faqs#question25974, on 24 March 2020

## Inland Rail Route, 2020




Source: ARTC (2020)

Intermodal facilities are an important element to fully realising the benefits of Inland Rail and maximising productivity in Australia's freight network. Intermodal facilities play a critical role in facilitating the consolidation, storage, and transfer of freight between rail and road, whether it be at the beginning or at the end of the rail journey. In Brisbane, the ARTC has considered the possibility of an intermodal terminal operation in the Ebenezer Industrial Area in addition to the existing Acacia Ridge Terminal

The proposed Ebenezer Intermodal Facility is located in close proximity to the Calvert to Kagaru section of the Inland Rail track. The proposed intermodal facility is anticipated to have the following benefits:

- Increased industrial employment (this could in turn increase employment retention within the broader Ipswich City) and
- Increased distribution, network capacity and competitiveness in SEQ.

Figure below details the Calvert to Kagaru track portion of Inland Rail, including its location relative to Ebenezer.

**IInland Rail – Calvert to Kagaru Map**



Source: ARTC (2020)

## D.2.5 Potential Policy Influences

This section provides an overview of the relevant policies that might potentially impact Ipswich City, policy initiatives include:

- Waste Management and Resource Recovery Strategy
- Advance Queensland Initiatives.

### Waste Management and Resource Recovery Strategy

The Waste Management and Resource Recovery Strategy details a plan for the more efficient management of waste in Queensland. The strategy aims to highlight benefits in terms of economic growth and job creation obtained through the recovery of more materials and value gained through the recovery of materials.

In the most recent year of data availability, 2017-18, Queensland produced approximately 11 million tonnes of waste, with waste generated significantly outpacing population growth over the last decade. In 2017-18, approximately 4.9 million tonnes of waste were recovered, representing around 45% of total waste generated. Over the past decade, recycling rates across Queensland has remained steady whilst the volume of waste generated has increased. Further, the cost of clean-up has largely been incurred by Local Governments. It is anticipated the next 10 years will bring major changes in the way waste is managed, providing opportunities for growth in employment and expansion.

The Waste Management and Resource Recovery Strategy aims to achieve the following strategic outcomes:

- Reducing the impact of waste on the environment
- Transitioning to a circular economy for waste and
- Building economic opportunity.

The strategy provides an opportunity for Local Governments to work with Queensland Government to review and plan infrastructure to deliver optimal waste recycling and recovery.

Accordingly, the Waste Management and Resource Recovery Strategy has the potential to significantly influence Ipswich City, particularly for industrial land demand. The potential impacts can be characterised in terms of job creation and diversifying the Ipswich City economy. The proposed Swanbank Clean Energy and Resource Recovery Precinct and New Chum Landfill Site demonstrate the potential impact of this policy initiative on Ipswich City.

### Advance Queensland Initiative

The Advance Queensland Initiative is a Queensland Government program that aims to build Queensland's innovation economy in the aim of economic growth and job creation. The initiative includes $755 million investment to support programs and activities that will drive innovation across the state. The Advance Queensland Initiative priorities include:

- Build on Queensland's Strength: create jobs through innovation in Queensland's traditional strengths such as agriculture, manufacturing, resources and tourism, and encourage new industries based the state's assets, like biofutures
- Back Queensland's Regions to Compete Globally: State Government to work with regions to grow their unique competitive advantage to build industries and create jobs

- Scaling up Local Solutions for New Markets: State Government to work with regions to scale up entrepreneurs, startups, small-to-medium enterprises (SMEs) and businesses by helping them commercialise ideas, linking them to investors and making global connections and
- Investment in Science and Technology: Utilising science and technology to commercialise research and solve the challenges facing Queensland and the world including climate change, protecting the Great Barrier Reef, and energy and water sustainability.

Ipswich City has been significantly supported by the Advance Queensland Initiative, with over 160 grant recipients located in Ipswich City. Through the Advanced Queensland Initiative, several industries have either relocated or plan to locate to Ipswich City, including Rheinmetall Defence Australia.

## D.3 Macro and Micro Trends Implications

The macro-economic trends detailed in Section 5.1 indicate that there are a variety of international factors which will have implications for the future of industrial activity in Ipswich City. Globalisation and changes in trade policy will result in an increased volume of imports and exports requiring distribution throughout Australia. Ipswich has significant existing and proposed logistics and freight network infrastructure which seeks to further the efficiency of the regional and state-wide freight network, in turn furthering SEQ as a valuable trading partner. The transport, warehousing and postal services industry is anticipated to be a high-value industry and a significant source of employment in Ipswich and SEQ more broadly.

Additionally, the COVID-19 pandemic has proven the interdependence between Australia and the country's primary trading partners such as China and India. Due to the restrictions in place across the world to manage the pandemic many goods typically imported by Australia's trading partners were in short supply, leaving businesses and consumers without products. This pressure on imports is anticipated to lead to a resurgence in domestic manufacturing, particularly in necessary goods as opposed to discretionary goods.

Additionally, Queensland's richness in natural resources also provide opportunities for the sustainable energies industry to support future industrial activity in Ipswich City and broader SEQ.

Emerging megatrends in industrial activity include lower labour to capital ratios, changes in demographics, knowledge intensity and workplace flexibility. However, a common theme among these industry trends is that each of these trends is dependent on technological advancement. Technology is required to reduced human capital requirements, increase workplace flexibility, upskill significant proportions of the workforce or increase knowledge intensity in industrial activities. Therefore, the professional, scientific, and technical services industries will be a driving factor in the future as the emerging megatrends discussed in this Section continue to permeate Australian industry, Finally, it is expected that the existing high value industry within Ipswich City will continue to contribute to the regions value and employment into the future (Section 5.2). Based on the emerging megatrends, the following industries are expected to be significant driving factors to both the SEQ and Ipswich City economies in the future:

- Transport, postal and warehousing
- Manufacturing
- Sustainable energy
- Education and training
- Professional, scientific and technology services
- Public administration and safety
- Construction and
- Health care and social assistance.

# Appendix E Labour Force Considerations

# Labour Force Considerations

This section of the report provides an overview of employment projections and labour force characteristics of Ipswich City Council and the SA2s. This section is structured as follows:

- **Employment projections**: this section provides an overview of QGSO employment projections and employment retention for Ipswich City Council
- **Resident workforce characteristics**: this section details the characteristics of the resident workforce including industry of employment, education levels (total workforce and industrial workforce), occupation (total workforce and industrial workforce) and journey to work characteristics of industrial workforce. This analysis was undertaken at the LGA and SA2 level
- **Place of work characteristics:** this section details the characteristics of the employment by place of work including industry of employment, education levels (total workforce and industrial workforce), occupation (total workforce and industrial workforce) and journey to work characteristics of industrial workers. This analysis was undertaken at the LGA and SA2 level and
- **Implications for industrial land demand:** this section summarises the key employment and labour force characteristics of industrial sector workers within Ipswich City and the SA2s.

## E.1 Employment Projections

The Queensland Government Statisticians Office (QGSO) employment projections for Ipswich City demonstrates an increase of 60,873 workers between 2015-16 and 2040-41, representing an average growth rate of 2.7% over the projection period.

Based on these projections, the industries of Health Care and Social Assistance Administrative and Support Services; and Education and Training are anticipated to record the most significant AAGR changes (at 4.4%, 4.2% and 3.4% respectively). Note, the high AAGR change in Administrative, and Support Services is largely attributable to a small base of workers (1,834 workers in 2020-21 to 4,151 workers in 2040-41).

By 2040-41, the Health Care and Social Assistance (28,357 workers); Manufacturing (18,008 workers); Education and Training (15,507 workers); and Retail Trade (12,404) industries are expected to be the largest employing industries in Ipswich City. These industries are also expected to record consistent growth in the number of persons employed over a 20-year period.

Employment in industrial sectors is also anticipated to grow between 2020-21 and 2040-41 with average annual growth rates of 2.4% per annum in construction, 2.3% per annum in manufacturing and 1.3% per annum in the transport, postal and warehousing sector. Interestingly, most sectors within Ipswich City are expected to experience a declining proportion of total employment over the projection period, however, the construction industry is among those with an increasing incidence over time (0.1% increase).

The table below details the employment projections by industry, and the proportion of total employment attributable to each industry in Ipswich City between 2020-21 and 2040-41.

**Employment Projections (Place of Work) by Industry– Ipswich City 2020-21 to 2040-41**

| Ipswich City | 2020-21 | 2025-26 | 2030-31 | 2035-36 | 2040-41 | AAGR (%) |
|---|---|---|---|---|---|---|
| ***Number*** | | | | | | |
| Agriculture, Forestry and Fishing | 284 | 273 | 262 | 251 | 241 | -0.8% |
| Mining | 519 | 600 | 694 | 790 | 889 | 2.7% |
| Manufacturing | 11,427 | 12,341 | 13,798 | 15,733 | 18,008 | 2.3% |
| Electricity, Gas, Water and Waste Services | 861 | 938 | 1,037 | 1,119 | 1,178 | 1.6% |
| Construction | 6,498 | 7,656 | 8,611 | 9,468 | 10,355 | 2.4% |

| Ipswich City | 2020-21 | 2025-26 | 2030-31 | 2035-36 | 2040-41 | AAGR (%) |
|---|---|---|---|---|---|---|
| Wholesale Trade | 1,780 | 1,837 | 1,901 | 1,966 | 2,036 | 0.7% |
| Retail Trade | 8,355 | 9,318 | 10,341 | 11,343 | 12,404 | 2.0% |
| Accommodation and Food Services | 4,900 | 5,313 | 5,704 | 6,035 | 6,318 | 1.3% |
| Transport, Postal and Warehousing | 3,468 | 3,687 | 3,960 | 4,224 | 4,520 | 1.3% |
| Information Media and Telecommunications | 300 | 316 | 336 | 352 | 370 | 1.1% |
| Financial and Insurance Services | 1,392 | 1,318 | 1,302 | 1,386 | 1,516 | 0.4% |
| Rental, Hiring and Real Estate Services | 1,017 | 1,216 | 1,435 | 1,659 | 1,918 | 3.2% |
| Professional, Scientific and Technical Services | 2,930 | 3,401 | 3,915 | 4,441 | 5,079 | 2.8% |
| Administrative and Support Services | 1,834 | 2,286 | 2,825 | 3,421 | 4,151 | 4.2% |
| Public Administration and Safety | 7,388 | 8,115 | 8,908 | 9,757 | 10,655 | 1.8% |
| Education and Training | 7,905 | 9,501 | 11,332 | 13,314 | 15,507 | 3.4% |
| Health Care and Social Assistance | 12,058 | 15,272 | 19,111 | 23,423 | 28,357 | 4.4% |
| Arts and Recreation Services | 529 | 576 | 631 | 690 | 756 | 1.8% |
| Other Services | 2,518 | 2,937 | 3,424 | 3,946 | 4,541 | 3.0% |
| Total persons employed | 75,962 | 86,900 | 99,527 | 113,315 | 128,800 | 2.7% |
| ***Proportion*** | | | | | | |
| Agriculture, Forestry and Fishing | 0.4% | 0.3% | 0.3% | 0.2% | 0.2% | - |
| Mining | 0.7% | 0.7% | 0.7% | 0.7% | 0.7% | - |
| Manufacturing | 15.0% | 14.2% | 13.9% | 13.9% | 14.0% | - |
| Electricity, Gas, Water and Waste Services | 1.1% | 1.1% | 1.0% | 1.0% | 0.9% | - |
| Construction | 8.6% | 8.8% | 8.7% | 8.4% | 8.0% | - |
| Wholesale Trade | 2.3% | 2.1% | 1.9% | 1.7% | 1.6% | - |
| Retail Trade | 11.0% | 10.7% | 10.4% | 10.0% | 9.6% | - |
| Accommodation and Food Services | 6.5% | 6.1% | 5.7% | 5.3% | 4.9% | - |
| Transport, Postal and Warehousing | 4.6% | 4.2% | 4.0% | 3.7% | 3.5% | - |
| Information Media and Telecommunications | 0.4% | 0.4% | 0.3% | 0.3% | 0.3% | - |
| Financial and Insurance Services | 1.8% | 1.5% | 1.3% | 1.2% | 1.2% | - |
| Rental, Hiring and Real Estate Services | 1.3% | 1.4% | 1.4% | 1.5% | 1.5% | - |
| Professional, Scientific and Technical Services | 3.9% | 3.9% | 3.9% | 3.9% | 3.9% | - |
| Administrative and Support Services | 2.4% | 2.6% | 2.8% | 3.0% | 3.2% | - |
| Public Administration and Safety | 9.7% | 9.3% | 9.0% | 8.6% | 8.3% | - |
| Education and Training | 10.4% | 10.9% | 11.4% | 11.7% | 12.0% | - |
| Health Care and Social Assistance | 15.9% | 17.6% | 19.2% | 20.7% | 22.0% | - |
| Arts and Recreation Services | 0.7% | 0.7% | 0.6% | 0.6% | 0.6% | - |
| Other Services | 3.3% | 3.4% | 3.4% | 3.5% | 3.5% | - |
| **Total persons employed** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **-** |

Source: Queensland Government Statisticians Office Employment Projections (2016)

Employment retention rates for Ipswich City were also derived from the QGSO employment projections. Despite significant employment growth anticipated for Ipswich City, overall employment retention within Ipswich City is anticipated to decrease from 77.3% in 2015-16 to 44.7% in 2040-41. This equates to an average annual growth rate of -1.3% per annum over a 25-year timeframe.

The table below details the retention rates for Ipswich City from 2020-21 to 2041-42.

**Employment Retention – Ipswich City, 2020-21 to 2041-42**

| Year | Employed Residents in Ipswich City | Employed Workers in Ipswich City | Employment Retention | AAGR (%) |
|---|---|---|---|---|
| 2020-21 | 110,507 | 75,962 | 68.7% | -1.7% |
| 2025-26 | 143,992 | 86,900 | 60.4% | -1.7% |
| 2030-31 | 184,841 | 99,527 | 53.8% | -1.3% |
| 2035-36 | 231,566 | 113,315 | 48.9% | -1.0% |
| 2040-41 | 288,006 | 128,800 | 44.7% | -0.8% |

Source: Queensland Treasury (2016)

## E.2 Resident Workforce

The resident workforce of Ipswich City or the SA2s represents the persons residing in Ipswich City who are employed either within or outside of the LGA or SA2 This section summarises the following key characteristics:

- Industry of employment
- Education attainment levels (analysed for total workforce and industrial workforce)
- Occupation (analysed for total workforce and industrial workforce) and
- Journey to work of industrial workforce.

### E.2.1 Ipswich City

#### Industry

Over the past three Censuses the resident workforce of Ipswich City have consistently been most likely employed in one of the following industries:

- Manufacturing: 18.1% of the resident workforce in 2006, decreasing to 10.5% of the resident workforce in 2016
- Health care and social assistance: increased from 11.6% of the resident workforce in 2006, increasing to 13.8% in 2016 and
- Retail trade: decreased marginally from 11.5% of the resident workforce in 2006 to 11.0% in 2016.

Aside from the above industries of significance, employment of the resident workforce in the education and training industry increased by 1.6% between 2006 and 2016. Additionally, the incidence of construction sector employment increased from 7.5% in 2006 to 8.8% in 2016. Other industrial sectors such as the transport, postal and warehousing industry demonstrated little to no change in the proportion of resident workforce employment over the study period. The table below details the resident workforce of Ipswich City by industry of employment as of the 2006, 2011 and 2016 Censuses.

**Resident Workforce by Industry – Ipswich City, Proportion (%), 2006, 2011 and 2016**

| | 2006 | 2011 | 2016 |
|---|---|---|---|
| Agriculture, Forestry and Fishing | 0.9% | 0.6% | 0.9% |
| Mining | 0.6% | 1.0% | 0.9% |
| Manufacturing | 18.1% | 14.7% | 10.5% |
| Electricity, Gas, Water and Waste Services | 1.2% | 1.4% | 1.3% |
| Construction | 7.5% | 8.0% | 8.8% |
| Wholesale Trade | 4.4% | 4.3% | 3.4% |
| Retail Trade | 11.5% | 11.0% | 11.0% |
| Accommodation and Food Services | 4.9% | 5.3% | 5.8% |

| | 2006 | 2011 | 2016 |
|---|---|---|---|
| Transport, Postal and Warehousing | 6.8% | 6.9% | 6.8% |
| Information Media and Telecommunications | 1.1% | 0.9% | 1.1% |
| Financial and Insurance Services | 2.4% | 2.5% | 2.6% |
| Rental, Hiring and Real Estate Services | 1.6% | 1.5% | 1.7% |
| Professional, Scientific and Technical Services | 4.0% | 4.6% | 4.6% |
| Administrative and Support Services | 3.0% | 3.1% | 3.6% |
| Public Administration and Safety | 8.7% | 9.9% | 9.5% |
| Education and Training | 6.9% | 7.1% | 8.5% |
| Health Care and Social Assistance | 11.6% | 12.4% | 13.8% |
| Arts and Recreation Services | 0.9% | 0.9% | 1.0% |
| Other Services | 3.8% | 3.8% | 4.1% |
| **Total** | **60,697** | **73,094** | **80,316** |

Source: ABS Census of Population and Housing Time Series Profile (2016)

## Education

### Total Workforce

The incidence of the resident workforce of Ipswich City holding a non-school qualification increase significantly between 2006 and 2016, representing approximately 37.5% of the resident workforce as of the 2016 Census. This increase is primarily driven by the significant growth in the proportion of the workforce holding a certificate between the Censuses. The table below details the resident workforce of Ipswich City by level of educational attainment as of the 2006, 2011 and 2016 Censuses.

#### Educational Attainment – Ipswich City Resident Workforce, 2006, 2011 and 2016

| | 2006 | 2011 | 2016 |
|---|---|---|---|
| Persons with a non-school qualification | 26.7% | 32.3% | 37.5% |
| Persons with Bachelor or higher | 6.3% | 8.2% | 10.0% |
| Persons with Diploma | 4.5% | 5.7% | 7.2% |
| Persons with Certificate | 15.9% | 18.4% | 20.3% |

Source: ABS Census of Population and Housing Time Series Profile (2016)

### Industrial Workforce

The proportion of the resident industrial workforce who held a post school qualification increased from 36.2% to 47.2% between 2006 and 2016. This increase was primarily driven by the increase in the proportion of industrial workers holding a certificate (4.9% increase between across the three Censuses). The table below details the resident industrial workforce of Ipswich City by level of educational attainment as of the 2006, 2011 and 2016 Censuses.

#### Educational Attainment – Ipswich City Resident Industrial Workforce, 2006, 2011 and 2016

| | 2006 | 2011 | 2016 |
|---|---|---|---|
| Persons with a non-school qualification | 36.2% | 40.3% | 47.2% |
| Persons with Bachelor or higher | 3.5% | 4.9% | 6.7% |
| Persons with Diploma | 4.5% | 5.5% | 7.3% |
| Persons with Certificate | 28.2% | 29.9% | 33.1% |

Source: ABS Census of Population and Housing Time Series Profile (2016)

## Occupation

### Total Workforce

Residents of Ipswich City are most likely to be employed as trades workers or technicians (17.7% of the working resident population) or labourers (15.7% of the working resident population) as of the 2006 Census. As of the 2011 and 2016 Censuses, technicians and trades workers remained the most significant occupation of working residents in the area, accounting for over 15.0% of the total working population at both Censuses. However, the second most significant occupation in 2011 and 2016 became clerical and administrative workers as of the last two Censuses.

The table below details the total working population residing in Ipswich City by occupation as of the 2006, 2011 and 2016 Censuses.

**Resident Workforce by Occupation – Ipswich City, Proportion (%), 2006, 2011 and 2016**

| | 2006 | 2011 | 2016 |
|---|---|---|---|
| Managers | 8.7% | 9.0% | 9.2% |
| Professionals | 12.1% | 13.9% | 14.8% |
| Technicians and Trades Workers | 17.7% | 16.5% | 15.4% |
| Community and Personal Service Workers | 10.7% | 11.5% | 13.0% |
| Clerical and Administrative Workers | 15.6% | 16.0% | 14.9% |
| Sales Workers | 9.5% | 9.6% | 9.8% |
| Machinery Operators and Drivers | 10.1% | 10.1% | 10.1% |
| Labourers | 15.7% | 13.4% | 12.9% |
| **Total** | **61,141** | **73,298** | **82,751** |

Source: ABS Census of Population and Housing Time Series Profile (2016)

### Industrial Workforce

The resident industrial workforce of Ipswich City was most likely to be employed as machinery operators and drivers across the 2006, 2011 and 2016 Censuses. As of 2016, the machinery operators and drivers accounted for almost 30.0% of the resident industrial workers, closely followed by Labourers and technicians and trades workers. The table below details the total industrial working population residing in Ipswich City by occupation as of the 2006, 2011 and 2016 Censuses.

**Resident Industrial Workforce by Occupation – Ipswich City, Proportion (%), 2006, 2011 and 2016**

| | 2006 | 2011 | 2016 |
|---|---|---|---|
| Managers | 8.3% | 9.1% | 9.5% |
| Professionals | 3.6% | 4.4% | 4.8% |
| Technicians and Trades Workers | 20.8% | 18.9% | 15.3% |
| Community and Personal Service Workers | 0.7% | 0.8% | 1.0% |
| Clerical and Administrative Workers | 13.2% | 14.1% | 14.7% |
| Sales Workers | 5.0% | 5.4% | 4.8% |
| Machinery Operators and Drivers | 24.3% | 25.6% | 29.7% |
| Labourers | 22.5% | 20.3% | 19.0% |
| **Total** | **17,946** | **18,954** | **16,601** |

Source: ABS Census of Population and Housing Time Series Profile (2016)

## E.2.2 Small Area (SA2) Resident Workforce

### Industry

In 2011 the resident workforce of the following SA2s contained the most significant incidence of employment in industrial sectors:

- Riverview: 26.2% of the resident workforce were employed in the manufacturing sector

- Goodna and Camira- Gailes: 5.7% of the respective resident workforces were employed in the whole sale trade industry and
- Rosewood: 8.5% of the resident workforce were employed in transport, postal and warehousing.

Industrial employment of the resident workforce was highest in the following SA2s:

- Goodna: 15.7% of the resident workforce were employed in the manufacturing sector
- Redbank Plains and Collingwood Park - Redbank: 4.6% of the respective resident workforces were employed in the whole sale trade industry and
- Riverview: 10.1% of the resident workforce were employed in transport, postal and warehousing.

Appendix A details the resident workforce industries of employment by SA2s within Ipswich City between 2011 and 2016

## Education

### Total Workforce

Within the SA2s of Ipswich City, the incidence of persons (resident population aged over 15 years) holding a post-school qualification was highest in the following SA2s:

- Bellbird Park - Brookwater: representing almost half of the working aged population held a post school qualification in both 2011 and 2016, with the incidence of persons holding a certificate was the most significant in 2016
- Springfield Lakes: 42.0% increased to 45.4% of the working aged population held a post school qualification, primarily driven by the proportion of persons with a certificate and
- Karalee - Barellan Point: 41.5% increased to 45.4% of the working aged population held a post school qualification, this growth was most significant in the incidence of persons holding a certificate.

Appendix A details the incidence of post-school qualifications by SA2s within Ipswich City as of 2011 and 2016.

## Industrial Workforce

The resident industrial workforce of the SA2s that constitute Ipswich City have varying incidence of educational attainment as of the past two censuses. The proportion of the resident industrial working population (resident population aged over 15 years employed in industrial sectors) holding a post school qualification was highest in the following SA2s:

- Ipswich – Central: 53.7% in 2011 increased to 56.5% of the resident industrially employed population in 2016 held a post school qualification, primarily driven by the proportion of persons with a certificate (almost half of the population in 2016)
- Karalee - Barellan Point: increased from 53.7% of the industrial resident workforce in 2011 to 56.5% in 2016, driven by the significant increase in the incidence of persons holding a bachelors degree or higher
- Ipswich - North: 52.3% in 2011 increased to 56.5% of the working aged population employed in industrial sectors held a post school qualification, this growth was most significant in the incidence of persons holding a certificate.

Appendix A details the incidence of post-school qualifications of industrial workers by SA2s within Ipswich City as of 2011 and 2016.

## Occupation

### Total Workforce

As of 2016, the resident workforce of Ipswich City were most likely to be employed as industrial related occupations within the following SA2s:

- Camira – Gailes: 18.4% of workers were technicians and trades workers
- Redbank Plains: 15.7% of the workers were machinery operators or drivers and
- Riverview: 24.1% of workers were labourers.

Appendix A details the incidence of worker occupation by SA2s within Ipswich City as of 2011 and 2016.

### Industrial Workforce

As of 2016, the industrial resident workforce of Ipswich City were most likely to be employed as industrial related occupations within the following SA2s:

- Ripley: 25.8% of workers were technicians and trades workers
- Goodna: 33.1% of the workers were machinery operators or drivers and
- Riverview: 40.4% of workers were labourers.

Appendix A details the incidence of worker occupation by SA2s within Ipswich City as of 2011 and 2016.

## E.2.3 Journey to Work – Resident Industrial Workforce

In the assessing the industrial workforce, a high-level definition has been utilised. Industrial workforce has been defined to workers in the following industry sectors.

- Manufacturing
- Wholesale Trade and
- Transport postal and warehousing.

Residents of Ipswich City employed in industrial sectors typically travel to Brisbane City for employment, most notably to the following SA2s:

- Rocklea Acacia Ridge: 9.2% of the resident industrial work force travelled to this SA2 for employment in both 2011 and 2016
- Wacol: represented 8.7% of the industrial workforce in 2011 increasing to 8.8% in 2016 and
- Darra – Sumner: increased from 5.1% of the resident industrial workforce in 2011 to 5.2% as of the 2016 Census.

Within Ipswich City, approximately 7.7% of the resident industrial workforce were employed within the Carole Park SA2 and 5.2% are employed in the Riverview SA2. Interestingly, these five SA2s are all located along the South West Industrial Corridor (SWIC) Regional Economic Cluster as defined in Shaping SEQ Brisbane. The function of SWIC varies from a very heavy industrial focus supporting priority sectors of manufacturing, mining services and transport and logistics at its expanding western boundary, to health and tertiary education-oriented sectors towards its eastern boundary.

Another area of industrial significance is Trade Coast Central which is located within the suburb of Eagle Farm, however, falls into the Brisbane Airport REC. There was an increasing incidence of commuters from Ipswich City travelling to the Brisbane Airport SA2 between 2011 and 2016, ultimately representing 1.6% of the total industrial resident workforce as of the last Census.

The table below details the place of usual residence for the industrial workforce of Ipswich City between 2011 and 2016.

**Place of Work for the Industrial Workforce – Ipswich City, 2011 and 2016**

| Areas | | 2011 | | 2016 | |
|---|---|---|---|---|---|
| | | Number | Proportion (%) | Number | Proportion (%) |
| **Ipswich City** | Carole Park | 1,516 | 7.8% | 1,362 | 7.7% |
| | Riverview | 1,057 | 5.4% | 927 | 5.2% |
| | Bundamba | 759 | 3.9% | 825 | 4.7% |
| | Leichhardt - One Mile | 521 | 2.7% | 522 | 3.0% |
| | Collingwood Park - Redbank | 716 | 3.7% | 468 | 2.6% |
| | Ipswich - Central | 384 | 2.0% | 430 | 2.4% |
| | Churchill - Yamanto | 455 | 2.3% | 383 | 2.2% |
| | Rosewood | 444 | 2.3% | 345 | 2.0% |
| | Raceview | 339 | 1.7% | 266 | 1.5% |

| Areas | | 2011 | | 2016 | |
|---|---|---|---|---|---|
| | | Number | Proportion (%) | Number | Proportion (%) |
| | Crestmead | 156 | 0.8% | 180 | 1.0% |
| | Remainder Ipswich City | 2,614 | 13.4% | 942 | 5.3% |
| | Total Ipswich City | 7,445 | 38.1% | 6,650 | 37.7% |
| **Brisbane City** | Rocklea - Acacia Ridge | 1,795 | 9.2% | 1,628 | 9.2% |
| | Wacol | 1,697 | 8.7% | 1,560 | 8.8% |
| | Darra - Sumner | 997 | 5.1% | 924 | 5.2% |
| | Pallara - Willawong | 620 | 3.2% | 816 | 4.6% |
| | Inala - Richlands | 660 | 3.4% | 501 | 2.8% |
| | Brisbane City | 384 | 2.0% | 312 | 1.8% |
| | Brisbane Airport | 213 | 1.1% | 280 | 1.6% |
| | Newstead - Bowen Hills | 288 | 1.5% | 240 | 1.4% |
| | Salisbury - Nathan | 223 | 1.1% | 194 | 1.1% |
| | Coopers Plains | 262 | 1.3% | 180 | 1.0% |
| | Remainder Brisbane City | 2,001 | 10.2% | 2,512 | 14.2% |
| | Total Brisbane City | 9,140 | 46.7% | 9,147 | 51.8% |
| **Other LGAs** | Logan (C) | 481 | 2.5% | 625 | 3.5% |
| | Gold Coast (C) | 156 | 0.8% | 230 | 1.3% |
| | Moreton Bay (R) | 52 | 0.3% | 77 | 0.4% |
| | Somerset (R) | 79 | 0.4% | 74 | 0.4% |
| | Toowoomba (R) | 34 | 0.2% | 56 | 0.3% |
| | Lockyer Valley (R) | 58 | 0.3% | 54 | 0.3% |
| | Redland (C) | 33 | 0.2% | 43 | 0.2% |
| | QLD Remainder | 2,049 | 10.5% | 611 | 3.5% |
| **n.a.** | Outside of Queensland | 25 | 0.1% | 95 | 0.5% |
| | **Total** | **19,552** | **100.0%** | 17,662 | 100.0% |

Source: ABS Census of Population and Housing Profile (2011 and 2016)

## E.3 Employment by Place of Work

The employment by place of work for Ipswich City and each SA2 represents the persons employed within the LGA or SA2, regardless of their place of usual residence. This section summarises the following key characteristics:

- Industry of employment
- Education attainment levels (analysed for total workforce and industrial workforce)
- Occupation (analysed for total workforce and industrial workforce) and
- Journey to work of industrial work.

### E.3.1 Ipswich City

#### Industry

Between 2006 and 2016 persons employed in Ipswich City were consistently most likely employed in the following sectors:

- Manufacturing: decreased from 21.0% of the working population in 2006 to 12.5% in 2016

- Education healthcare and assistance: represented 12.6% of the working population in 2006 and increased to 15.0% in 2016 and
- Retail trade: remained stable at 11.8% of the working population between 2006 and 2016.

The construction industry also experienced an increasing proportion of total employment between 2006 and 2016, with an additional 1.6% of the working population of Ipswich City employed in the industry as at the 2016 Census. Similarly to the resident workforce employment in the transport, postal and warehousing sector demonstrated little to no change across the three Censuses.

The table below details Ipswich City's working population by industry as of the2006, 2011 and 2016 Censuses.

**Working Population by Industry – Ipswich City, 2006, 2011 and 2016**

| | 2006 | 2011 | 2016 |
|---|---|---|---|
| Agriculture, Forestry and Fishing | 1.1% | 0.6% | 1.0% |
| Mining | 0.5% | 0.7% | 0.6% |
| Manufacturing | 21.0% | 16.7% | 12.5% |
| Electricity, Gas, Water and Waste Services | 1.3% | 1.4% | 1.7% |
| Construction | 5.0% | 5.7% | 6.7% |
| Wholesale Trade | 3.1% | 3.1% | 2.4% |
| Retail Trade | 11.8% | 11.7% | 11.8% |
| Accommodation and Food Services | 5.2% | 6.0% | 6.9% |
| Transport, Postal and Warehousing | 4.8% | 4.8% | 4.8% |
| Information Media and Telecommunications | 0.9% | 0.5% | 0.7% |
| Financial and Insurance Services | 1.7% | 1.8% | 2.1% |
| Rental, Hiring and Real Estate Services | 1.7% | 1.6% | 1.6% |
| Professional, Scientific and Technical Services | 3.8% | 3.9% | 3.9% |
| Administrative and Support Services | 1.9% | 2.2% | 2.6% |
| Public Administration and Safety | 9.5% | 10.8% | 10.4% |
| Education and Training | 10.1% | 10.5% | 11.4% |
| Health Care and Social Assistance | 12.6% | 13.9% | 15.0% |
| Arts and Recreation Services | 0.8% | 0.8% | 0.8% |
| Other Services | 3.0% | 3.3% | 3.1% |
| **Total** | **45,082** | **50,499** | **59,703** |

Source: ABS Census of Population and Housing Profile (2006, 2011 and 2016)

## Education

### Total Workforce

Between 2006 and 2016 the incidence of persons in the working population of Ipswich City holding a non-school qualification increased from 48.1% of the workforce to 60.0% of the workforce. The proportion of the working population holding a bachelor's degree or higher was the main driver for the increased education attainment representing a 5.6% increase between 2006 and 2016.

The table below details Ipswich City's working population by level of educational attainment as of the 2006, 2011 and 2016 Censuses.

### Educational Attainment – Ipswich City Working Population, 2006, 2011 and 2016

| | 2006 | 2011 | 2016 |
|---|---|---|---|
| Persons with a non-school qualification | 48.1% | 54.1% | 60.0% |
| Persons with Bachelor or higher | 16.0% | 18.7% | 21.6% |
| Persons with Diploma | 7.8% | 9.0% | 10.8% |
| Persons with Certificate | 24.3% | 26.4% | 27.6% |

Source: ABS Census of Population and Housing Profile (2006, 2011 and 2016)

### Industrial Workforce

The incidence of industrial workers in Ipswich City holding a post school qualification increased by 6.1% between 2006 and 2016 industrial workforce of Ipswich City. This increased in educational attainment is primarily due to the increase in the incidence of industrial workers in the City holding a bachelors degree or higher over the course of the past three Censuses.

The table below details Ipswich City's working industrial population by level of educational attainment as of the 2006, 2011 and 2016 Censuses.

### Educational Attainment – Ipswich City Industrial Working Population, 2006, 2011 and 2016

| | 2006 | 2011 | 2016 |
|---|---|---|---|
| Persons with a non-school qualification | 41.4% | 44.0% | 47.5% |
| Persons with Bachelor or higher | 6.7% | 7.8% | 9.6% |
| Persons with Diploma | 4.9% | 5.6% | 7.3% |
| Persons with Certificate | 29.8% | 30.6% | 30.6% |

Source: ABS Census of Population and Housing Profile (2006, 2011 and 2016)

## Occupation

### Total Workforce

In between 2006 and 2011, the working population of Ipswich City were likely employed as:

- Technicians and trades workers: representing 16.9% of the workforce in 2006 and 15.1% of the workforce in 2011 or
- Professionals: increased from 16.2% of the workforce in 2006 and 17.7% in 2016.

In 2016 professionals remained the most significant occupation in Ipswich City, however, the proportion of persons employed as community and personal service workers (14.0% of the workforce in 2016) overtook the incidence of technicians and trade workers (13.5% of the workforce in 2016).

Notably, although employment in traditionally industrial occupations (technicians, trades workers, machinery operators and drivers, and labourers) demonstrated a declining proportion of total employment in Ipswich City, between 2006 and 2016 the cumulative total employment remained above a third of all workers in the LGA.

The table below details Ipswich City's working population by occupation as of the 2006, 2011 and 2016 Censuses.

### Working Population by Occupation – Ipswich City, 2006, 2011 and 2016

| | 2006 | 2011 | 2016 |
|---|---|---|---|
| Managers | 9.8% | 10.2% | 10.1% |
| Professionals | 16.2% | 17.7% | 18.4% |
| Technicians and Trades Workers | 16.9% | 15.1% | 13.5% |
| Community and Personal Service Workers | 10.9% | 12.7% | 14.0% |
| Clerical and Administrative Workers | 12.7% | 12.9% | 12.0% |
| Sales Workers | 9.6% | 10.3% | 10.7% |
| Machinery Operators and Drivers | 7.9% | 8.0% | 8.3% |

| | 2006 | 2011 | 2016 |
|---|---|---|---|
| Labourers | 15.9% | 13.1% | 13.0% |
| **Total** | **45,045** | **50,327** | **61,214** |

Source: ABS Census of Population and Housing Profile (2006, 2011 and 2016)

#### Industrial Workforce

The industrial workforce of Ipswich City is most likely employed as technicians and trades workers, machinery operators or drivers or labourers between 2006 and 2016. The combined incidence of industrial workers employed under these occupations was over 65.0% of the total industrial workforce over the past three Censuses.

The table below details Ipswich City's industrial working population by occupation as of the 2006, 2011 and 2016 Censuses.

#### Industrial Working Population by Occupation – Ipswich City, 2006, 2011 and 2016

| | 2006 | 2011 | 2016 |
|---|---|---|---|
| Managers | 9.9% | 10.9% | 11.3% |
| Professionals | 4.9% | 5.2% | 5.6% |
| Technicians and Trades Workers | 24.5% | 21.8% | 15.5% |
| Community and Personal Service Workers | 0.7% | 0.8% | 1.1% |
| Clerical and Administrative Workers | 10.2% | 11.2% | 11.8% |
| Sales Workers | 3.6% | 4.6% | 4.0% |
| Machinery Operators and Drivers | 19.0% | 20.8% | 25.1% |
| Labourers | 27.3% | 24.7% | 25.5% |
| **Total** | **12,874** | **12,248** | **11,572** |

Source: ABS Census of Population and Housing Profile (2006, 2011 and 2016)

### E.3.2 Small Area (SA2) Place of Work

#### Industry

In 2011 the working population of the following SA2s contained the most significant incidence of employment in industrial sectors:

- New Chum: 58.3% of the working population were employed in the manufacturing sector
- Carole Park: 11.1% of the working population were employed in the whole sale trade industry and
- Collingwood Park – Redbank: 16.6% of the resident workforce were employed in transport, postal and warehousing.

In 2016, industrial employment of the working population was highest in the following SA2s:

- Carole Park: 60.7% of the working population were employed in the manufacturing sector and 10.9% were employed within the wholesale trade sector and
- Redbank Plains and Collingwood Park - Redbank: 4.6% of the respective resident workforces were employed in the whole sale trade industry and
- Collingwood Park – Redbank: 29.5% of the resident workforce were employed in transport, postal and warehousing.

Appendix B details the working population's industries of employment by SA2s within Ipswich City between 2011 and 2016.

#### Education

#### Total Workforce

Within the SA2s of Ipswich City, the incidence the working population holding a post-school qualification was highest in the following SA2s:

- Ipswich - Central: 63.5% increased to 69.6% of the workforce held a post school qualification, driven by a high incidence of workers with a bachelor's degree or higher (over a third of the working population)
- Rosewood: over 60.0% of the workforce held a post school qualification in both 2011 and 2016, with the incidence of persons holding a certificate being the most significant across both Censuses and
- Bellbird Park - Brookwater: 65.7% increased to 66.4% of the workforce held a post school qualification.

Appendix B details the incidence of post-school qualifications by SA2s within Ipswich City as of 2011 and 2016.

#### Industrial Workforce

The industrial workforce of the SA2's within Ipswich City have varying incidences of educational attainment as of the past two censuses. The proportion of the industrial working population holding a post school qualification was highest in the following SA2s:

- Springfield Lakes: the incidence of the industrial workforce holding a post school qualification increased from 45.8% in 2011 to 69.3% in 2016, this increase was largely due to the significant increase in the incidence of workers holding an advanced diploma
- Rosewood: the proportion of industrial workers holding a post school qualification represented almost two thirds of the industrial workforce at both the 2011 and 2016 Censuses and
- Bellbird Park – Brook water: the incidence of the industrial workforce holding a post school qualification increased by 21.3% between 2011 and 2016, this increase was largely due to the significant increase in the incidence of workers with a bachelor's degree or higher

Appendix B details the incidence of post-school qualifications by SA2s within Ipswich City as of 2011 and 2016.

### Occupation

#### Total Workforce

As of 2016, the working population of Ipswich City were most likely to be employed as industrial related occupations within the following SA2s:

- Rosewood: 24.8% of workers were technicians and trades workers
- New Chum: 36.2% of the workers were machinery operators or drivers and
- Riverview: almost half of workers were labourers.

Appendix B details the incidence of worker occupation by SA2s within Ipswich City as of 2011 and 2016.

#### Industrial Workforce

As of 2016, the industrial workforce of Ipswich City were most likely to be employed as industrial related occupations within the following SA2s:

- Rosewood: 29.7% of workers were technicians and trades workers
- Collingwood Park – Redbank: 45.5% of the workers were machinery operators or drivers and
- Riverview: 65.5% of workers were labourers.

Appendix B details the incidence of worker occupation by SA2s within Ipswich City as of 2011 and 2016.

## E.3.3 Journey to Work – Industrial Workforce of Ipswich City

The industrial workforce of Ipswich City encompasses the following industries:

- Manufacturing
- Wholesale Trade and
- Transport postal and warehousing.

The industrial workforce of Ipswich City (industrial workers who travel to Ipswich City for employment) decreased from 12,410 workers in 2011 to 11,717 workers in 2016. Over half of all industrial workers in Ipswich City also resided within the

LGA between the two Censuses. The next most significant area of residence was within Brisbane City, where the proportion of industrial employees travelling to Ipswich City increased between the two Censuses from 20.2% to 22.9% of the industrial workforce. Notably, most industrial workers who commute from Brisbane City to Ipswich City resided within the Forest Lake – Doolandella SA2 or within the Ipswich – North SA2 across both Censuses. Additionally, approximately 10.2% of industrial workers usually resided in Logan City, particularly within the Regents Park – Heritage Park SA2 (1.2%) and in the Jimboomba SA2 (1.1%) as of the 2016 Census.

The table below details the place of usual residence for the industrial workforce of Ipswich City between 2011 and 2016.

**Place of Usual Residence of the Industrial Workforce – Ipswich City, 2011 and 2016**

| Areas | | 2011 | | 2016 | |
|---|---|---|---|---|---|
| | | Number | Proportion (%) | Number | Proportion (%) |
| **Ipswich City** | Redbank Plains | 551 | 4.4% | 623 | 5.3% |
| | Ipswich - East | 701 | 5.6% | 576 | 4.9% |
| | Raceview | 707 | 5.7% | 548 | 4.7% |
| | Rosewood | 650 | 5.2% | 508 | 4.3% |
| | Brassall | 409 | 3.3% | 367 | 3.1% |
| | Bundamba | 422 | 3.4% | 349 | 3.0% |
| | Bellbird Park - Brookwater | 295 | 2.4% | 317 | 2.7% |
| | Springfield Lakes | 225 | 1.8% | 319 | 2.7% |
| | Collingwood Park - Redbank | 316 | 2.5% | 308 | 2.6% |
| | Goodna | 247 | 2.0% | 309 | 2.6% |
| | Remainder Ipswich City | 2,478 | 20.0% | 1,958 | 16.7% |
| | Total Ipswich City | 7,001 | 56.4% | 6,182 | 52.8% |
| **Brisbane City** | Forest Lake - Doolandella | 338 | 2.7% | 363 | 3.1% |
| | Ipswich - North | 238 | 1.9% | 191 | 1.6% |
| | Inala - Richlands | 195 | 1.6% | 218 | 1.9% |
| | Karana Downs | 89 | 0.7% | 102 | 0.9% |
| | Parkinson - Drewvale | 88 | 0.7% | 94 | 0.8% |
| | Durack | 95 | 0.8% | 102 | 0.9% |
| | Calamvale - Stretton | 82 | 0.7% | 106 | 0.9% |
| | Seventeen Mile Rocks - Sinnamon Park | 70 | 0.6% | 50 | 0.4% |
| | Darra - Sumner | 58 | 0.5% | 58 | 0.5% |
| | Wacol | 65 | 0.5% | 35 | 0.3% |
| | Remainder Brisbane City | 1,191 | 9.6% | 1,364 | 11.6% |
| | Total Brisbane City | 2,509 | 20.2% | 2,683 | 22.9% |
| **Logan City** | Regents Park - Heritage Park | 153 | 1.2% | 143 | 1.2% |
| | Jimboomba | 110 | 0.9% | 124 | 1.1% |
| | Greenbank | 121 | 1.0% | 113 | 1.0% |
| | Hillcrest | 88 | 0.7% | 86 | 0.7% |
| | Boronia Heights - Park Ridge | 70 | 0.6% | 75 | 0.6% |
| | Marsden | 63 | 0.5% | 69 | 0.6% |
| | Crestmead | 59 | 0.5% | 55 | 0.5% |
| | Woodridge | 61 | 0.5% | 49 | 0.4% |

| Areas | | 2011 | | 2016 | |
|---|---|---|---|---|---|
| | | Number | Proportion (%) | Number | Proportion (%) |
| | Browns Plains | 55 | 0.4% | 41 | 0.3% |
| | Kingston (Qld.) | 36 | 0.3% | 31 | 0.3% |
| | Remainder Logan City | 393 | 3.2% | 407 | 3.5% |
| | Total Logan City | 1,209 | 9.7% | 1,193 | 10.2% |
| **Other LGAs** | Somerset (R) | 352 | 2.8% | 324 | 2.8% |
| | Lockyer Valley (R) | 328 | 2.6% | 329 | 2.8% |
| | Scenic Rim (R) | 306 | 2.5% | 254 | 2.2% |
| | Gold Coast (C) | 215 | 1.7% | 186 | 1.6% |
| | Redland (C) | 200 | 1.6% | 201 | 1.7% |
| | Moreton Bay (R) | 138 | 1.1% | 174 | 1.5% |
| | Reminder QLD | 95 | 0.8% | 132 | 1.1% |
| **n.a.** | Outside of Queensland | 57 | 0.5% | 59 | 0.5% |
| | **Total** | **12,410** | **100.0%** | **11,717** | **100.0%** |

Source: ABS Census of Population and Housing Profile (2011 and 2016)

## E.4 Industrial Sector Employment and Characteristics Summary

Employment projections for Ipswich City estimate that industrial employment will increase, however, will decrease in the overall incidence of total employment by 2041. Therefore, suggesting a decline in industrial employment opportunities within the LGA relative to other sectors. Additionally, the QGSO employment retention assessment suggests that there will be a relative decrease in worker retention across all sectors between 2020-21 and 2040-41. The culmination of increased workforce leakage and declining significance of industrial employment within the LGA suggests that industrial sections within Ipswich City will be particularly vulnerable. Ipswich City resident workforce has historically had a large proportion of manufacturing workers, however, between 2006 and 2016 this proportion has significantly decreased to approximately 10.0% of the resident workforce. A similar trend is also evident in the wholesale trade sector. However, the transport, postal and warehousing sector demonstrated a consistent incidence of workers across the three Census periods. Relative to the non-industrial sectors, these sectors have shown less promising employment growth over time in the resident workforce.

This trend in the resident workforce of Ipswich City shift from industrial employment to other industries is furthered by the proportion of the workforce with a bachelor's degree or higher increasing relatively faster than the incidence of persons with a certificate qualification. Additionally, over the past three Censuses the proportion of the resident workforce employed as professionals has increased whilst the incidence of industrial workers has declined (technicians and trades workers, machinery operators and drivers and labourers). Typically, the resident workforce has been dominated by blue-collar occupations, however, over the course of the past three Censuses it is evident that there is a shift towards white-collar employment requiring higher education.

Similarly to the resident workforce, the working population of Ipswich City has also demonstrated a decreasing proportion of employment in industrial sectors between 2006 and 2016. The manufacturing sector demonstrated the most significant decrease in the incidence of employment, totalling an 8.5% decline between 2006 and 2011. Additionally, the two populations in question have a similar incidence of persons holding a bachelors degree or higher across the three Censuses (significant growth over time) and an overall similar incidence of employment in most occupations.

Notably, overall the incidence of persons with a post-school qualification is significantly lower in the working population than recorded for the resident workforce, demonstrating that in 2016 approximately 40.0% of workers employed in Ipswich City did not hold any post school qualification. This variance is particularly evident in the incidence of persons in Ipswich City working population holding a certificate. Whilst certificate attainment is necessary for many machinery and equipment operators and most technicians and trades workers, it is not necessary or required for labourers. Concurrently, the working population of Ipswich City did demonstrate a marginally higher incidence of labourers and technicians and trades workers relative to the resident workforce as of 2016.

Of industrial workers employed in Ipswich City in 2016 most also resided in Ipswich City but a significant proportion also resided within Brisbane City, most notably in the Forest Lake – Doolandella SA2 or within the Ipswich – North SA2 and are therefore not travelling a great distance between work and home. However, the industrial resident working population demonstrated increasing employment leakage from Ipswich City to other areas (particularly to Brisbane City) between the 2011 and 2016 Censuses.

The leaked industrial workforce were most significantly employed in the Rocklea – Acacia Ridge SA2 which is located in the SWIC and contains the Archerfield Airport, the Rocklea Markets and the Linfox Intermodal Terminal. Additionally, a significant proportion of persons were employed within the Wacol SA2 which is also located along the SWIC and is well connected by road and rail. The Wacol SA2 is home to the Wacol industrial area which offers broad range of employment opportunities due to the diversity of industrial activities within the development. Overall, as of the latest Census data there was still a significant proportion of industrial work retention in Ipswich City, however, it has been steadily declining over the last decade and based the latest QGSO employment projections this trend is anticipated to continue to 2041.

# Appendix F Usual Resident Workforce Projections and Industrial Employment Retention

This section of the report provides projections of industrial sector employment retention for Ipswich City and SA2s. The employment retentions projections have been informed by the three employment scenarios outlined in the proceeding section and usual resident workforce projections detailed in this section. In undertaking this analysis, the net inflow and outflow of industrial workers can be determined which in turn will have impact on industrial land demand at the SA2 and broader Citywide level.

## F.1 Usual Resident Workforce Projections

This section provides usual resident workforce projections for Ipswich City and SA2s. These projections consider working resident population projections published by Queensland Treasury and historic trends in the employment of residents of Ipswich City and the SA2s.

### F.1.1 Ipswich City

Queensland Treasury publishes labour force projections by LGA in South East Queensland by place of usual residence for the 2010-11 to 2040-41 period. This data therefore represents the working resident population by LGA. With respect to Ipswich City, the working resident population is anticipated to increase from 81,021 persons in 2010-11 to 288,006 persons in 2040-41, as detailed in Table 10-1.

### F.1.2 Working Resident Population – Ipswich City, 2010-11 to 2040-41

| | 2010-11 | 2015-16 | 2020-21 | 2025-26 | 2030-31 | 2035-36 | 2040-41 |
|---|---|---|---|---|---|---|---|
| Ipswich City | 81,021 | 87,848 | 110,507 | 143,992 | 184,841 | 231,566 | 288,006 |

Source: Queensland Treasury Journey to Work – South East Queensland Place of Usual Residence projections (2011)

Unlike the working population data published by Queensland Treasury, place of usual residence labour force projections are not published at a sectoral level (i.e. by ANZSIC classification). Therefore our assessment had derived working resident population estimates through consideration of historic and likely future trends at a sectoral level.

Over the past two Censuses the incidence of resident employment in Ipswich City was highest in the Other Store-Based Retailing (5.3%) in 2011 and Preschool and School Education (6.3%) in 2016. Between 2011 and 2016 the most significant growth occurred in the incidence of employment within the Preschool and School Education sector. The incidence of employment by two-digit ANZSIC sector as of the last two Censuses of Ipswich City is further detailed in Appendix A.

The growth in the proportion of employment within each two-digit ANZSIC sector level has informed resident working population projections for Ipswich City by industry in the short term (i.e. it is assumed the growth in other store-based retailing between 2011 and 2016 is assumed to remain constant between 2016 to 2026). After 2026 it is assumed that the working resident population of Ipswich City will continue to grow, however, the growth rate will slow. A slower growth rate reflects changes in the city's industries of significance over time. From 2026 onwards, it is assumed the historic growth rate will gradually decrease as follows:

- 2026 to 2031: growth over this period is 25.0% less than estimated for the 2016 to 2026 period.
- 2031 to 2036: growth over this period is estimated to be half that recorded in the preceding period and
- 2036 to 2041: growth over this period is anticipated to be a quarter of the growth in the 2031 to 2036 period.

The projected incidence of employment by two-digit ANZSIC category between 2016 and 2041 were also rebased to ensure that the sum of incidences reconciles to the total working resident population in Ipswich City.

These Ipswich City projections at 2015-16 were then applied to the incidence of employment by two digit ANZSIC sector as recorded as of the latest Census in order to obtain an estimate of the working resident population of Ipswich City. The detailed working population projections at the two-digit ANZSIC sector are detailed in Appendix K, however, the following table details the projections at the one-digit level.

This section reports 2019 as the first year of projections which is an interpolation of 2016 to 2021 figures.

These estimates indicate that the health care and social assistance sector (one-digit ANZSIC category) is anticipated to be the most significant employing industry in 2041 and is also anticipated to demonstrate the highest growth (in number of resident

workers). Table 10-2 summarises the Ipswich City working resident population projections by one-digit ANZSIC sector between 2019 and 2041.

### F.1.3 Working Resident Population Projections – Ipswich City, 2019 to 2041

| ANZSIC Category | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 | AAGR (%) |
|---|---|---|---|---|---|---|---|
| Agriculture, Forestry and Fishing | 1,010 | 1,234 | 1,899 | 2,662 | 3,462 | 4,343 | 7.2% |
| Mining | 834 | 935 | 1,183 | 1,470 | 1,829 | 2,271 | 4.2% |
| Manufacturing | 8,917 | 6,925 | 5,530 | 5,830 | 6,720 | 8,219 | -0.5% |
| Electricity, Gas, Water and Waste Services | 1,248 | 1,369 | 1,636 | 2,167 | 2,749 | 3,428 | 4.4% |
| Construction | 9,187 | 10,564 | 14,469 | 18,932 | 23,883 | 29,785 | 5.6% |
| Wholesale Trade | 2,723 | 2,695 | 2,266 | 1,897 | 2,003 | 2,395 | -0.8% |
| Retail Trade | 10,948 | 12,154 | 15,471 | 19,397 | 23,980 | 29,717 | 4.6% |
| Accommodation and Food Services | 6,062 | 6,944 | 9,470 | 12,357 | 15,569 | 19,384 | 5.5% |
| Transport, Postal and Warehousing | 6,531 | 7,407 | 10,076 | 13,265 | 16,783 | 20,916 | 5.1% |
| Information Media and Telecommunications | 1,189 | 1,413 | 2,039 | 2,829 | 3,662 | 4,589 | 6.4% |
| Financial and Insurance Services | 2,685 | 3,045 | 4,048 | 5,194 | 6,504 | 8,086 | 5.2% |
| Rental, Hiring and Real Estate Services | 1,886 | 2,226 | 3,213 | 4,345 | 5,564 | 6,954 | 6.3% |
| Professional, Scientific and Technical Services | 4,554 | 5,025 | 6,288 | 7,719 | 9,443 | 11,671 | 4.3% |
| Administrative and Support Services | 3,794 | 4,398 | 6,146 | 8,147 | 10,338 | 12,894 | 5.8% |
| Public Administration and Safety | 9,260 | 10,110 | 12,271 | 14,708 | 17,773 | 21,899 | 3.9% |
| Education and Training | 9,314 | 10,983 | 15,876 | 21,486 | 27,520 | 34,398 | 6.3% |
| Health Care and Social Assistance | 14,576 | 16,918 | 23,730 | 31,526 | 40,049 | 49,961 | 5.8% |
| Arts and Recreation Services | 1,102 | 1,283 | 1,810 | 2,413 | 3,070 | 3,831 | 6.0% |
| Other Services | 4,286 | 4,878 | 6,568 | 8,498 | 10,664 | 13,265 | 5.3% |
| **Total** | **100,108** | **110,507** | **143,992** | **184,841** | **231,566** | **288,006** | **4.9%** |

Source: Queensland Treasury Journey to Work – South East Queensland Place of Usual Residence projections (2011) and ABS Census of Population and Housing (2011 and 2016)

## F.2 Small Area (SA2) Usual Resident Workforce Projections

Queensland Treasury does not publish place of usual residence workforce projections at the SA2 level, therefore, in order to calculate the estimated resident workforce of each SA2 within Ipswich City the total population projections per persons aged 15 to 64 years were utilised (QGSO medium series population projections). These population projections informed the proportion of the Ipswich City working population who reside in each SA2. Additionally, this assessment assumes that working age population growth and workforce growth are likely to follow similar trends in distribution and annual growth throughout the SA2s of Ipswich City.

Table 10-3 details the QGSO medium series population projections by age for the working age population of the SA2s within Ipswich City between 2019 and 2041. This table also details the calculated proportion of total growth in Ipswich City attributable to each SA2 over the projection period.

According to these projections, the proportion Ipswich Cities resident working age population was largest in Redbank Plains SA2 (9.9%) and Ipswich – East SA2 (8.9%) as of 2016. However, by 2041 the two SA2s accounting for the most significant proportions of the Cities resident workforce are anticipated to be the Ripley SA2 (23.4%) and the Springfield Lakes SA2 (13.8%).

Notably, across the projection period the proportion of total growth attributable to each SA2 were highest in the Ripley SA2, Bellbird Park – Brookwater SA2 and Springfield Lakes SA2. In the 2019-21 period approximately 60.0% of Ipswich City's total resident workforce growth was attributable to these three SA2s, increasing to 65.3% in the 2036-41 period.

### F.2.1 Working Age Population Projections – SA2s in Ipswich City.

| | Proportion of Ipswich LGA Resident Working Population | | | | | | Proportion of Total Growth in Ipswich City | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 | 2019-21 | 2021-26 | 2026-31 | 2031-36 | 2036-41 |
| Rosewood | 6.3% | 6.3% | 8.4% | 10.2% | 11.0% | 11.9% | 6.9% | 15.1% | 17.2% | 16.5% | 17.6% |
| Brassall | 5.2% | 5.1% | 4.2% | 3.4% | 3.0% | 2.6% | 3.2% | 1.6% | 0.4% | 0.4% | 0.1% |
| Bundamba | 4.5% | 4.4% | 3.8% | 3.1% | 2.8% | 2.5% | 2.6% | 2.1% | 0.2% | 0.6% | 0.8% |
| Churchill - Yamanto | 3.2% | 3.0% | 2.3% | 1.8% | 1.6% | 1.4% | 0.8% | 0.1% | -0.1% | 0.0% | 0.1% |
| Ipswich - Central | 3.2% | 3.0% | 2.9% | 2.9% | 2.9% | 3.0% | 0.5% | 2.8% | 2.6% | 3.0% | 3.7% |
| Ipswich - East | 8.4% | 8.0% | 6.5% | 5.5% | 5.1% | 4.8% | 3.3% | 1.5% | 1.7% | 2.4% | 3.2% |
| Ipswich - North | 2.6% | 2.6% | 2.3% | 2.0% | 1.7% | 1.5% | 2.9% | 1.3% | 0.9% | -0.2% | -0.1% |
| Karalee - Barellan Point | 2.7% | 2.6% | 2.1% | 1.6% | 1.4% | 1.3% | 1.0% | 0.4% | -0.1% | 0.0% | 0.1% |
| Leichhardt - One Mile | 3.6% | 3.4% | 2.7% | 2.2% | 2.0% | 1.8% | 1.2% | 0.4% | 0.5% | 0.7% | 0.6% |
| North Ipswich - Tivoli | 3.0% | 2.8% | 2.4% | 2.1% | 2.0% | 2.0% | 1.5% | 1.1% | 0.8% | 1.5% | 1.5% |
| Raceview | 6.9% | 6.4% | 5.2% | 4.3% | 3.9% | 3.4% | 1.5% | 1.3% | 1.0% | 0.8% | 0.4% |
| Ripley | 4.7% | 6.8% | 14.8% | 18.6% | 20.9% | 23.4% | 31.9% | 40.0% | 33.7% | 35.5% | 39.8% |
| Riverview | 1.3% | 1.2% | 1.0% | 0.8% | 0.7% | 0.6% | 0.3% | 0.2% | 0.0% | 0.0% | 0.0% |
| Bellbird Park - Brookwater | 8.5% | 9.2% | 9.7% | 10.8% | 10.8% | 10.1% | 17.1% | 11.6% | 15.1% | 10.9% | 5.4% |
| Camira - Gailes | 4.6% | 4.3% | 3.3% | 2.6% | 2.3% | 2.0% | 0.7% | 0.1% | 0.1% | 0.0% | 0.0% |
| Carole Park | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| Collingwood Park - Redbank | 4.3% | 4.2% | 3.6% | 3.2% | 3.0% | 2.9% | 3.2% | 1.6% | 1.6% | 1.9% | 2.0% |
| Goodna | 5.1% | 4.8% | 3.9% | 3.2% | 2.9% | 2.6% | 1.2% | 1.0% | 0.6% | 0.7% | 0.7% |
| New Chum | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| Redbank Plains | 9.9% | 9.7% | 8.2% | 7.6% | 7.1% | 6.5% | 8.0% | 3.4% | 5.3% | 3.7% | 2.7% |
| Springfield | 3.5% | 3.4% | 2.7% | 2.2% | 2.1% | 2.0% | 2.0% | 0.4% | 0.6% | 1.4% | 1.5% |
| Springfield Lakes | 8.6% | 8.8% | 10.0% | 11.6% | 12.8% | 13.8% | 10.1% | 14.0% | 18.0% | 20.1% | 20.1% |
| Ipswich City | 99,720 | 110,507 | 143,992 | 184,841 | 231,566 | 288,006 | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% |

Source: CDM Smith Analysis (2020)

Applying the incidences outlined in the above table to the total Ipswich City resident working population yields resident working population estimates by SA2. The SA2s anticipated to have the largest working resident populations as of the 2016 Census were as follows:

- Springfield Lakes: the working resident population in this SA2 is estimated to increase from 9,740 persons in 2019 to 44,649 persons in 2041 accounting for over 15.5% of the total resident workforce in Ipswich City
- Rosewood SA2: estimated to increase from 6,424 persons in 2019 to 38,173 persons by 2041, representing 13.3% of the total resident working population of Ipswich City in 2041 and
- Ripley SA2: the Ripley SA2 is estimated to contribute most significantly to the resident workforce of Ipswich City at 2041 (23.2%) after increasing from 5,403 persons in 2019 to 66,089 persons in 2041.

These estimates are detailed in Table 10-4 below.

### F.2.2 Working Resident Population Projections – Ipswich City by SA2, 2019 to 2041

| | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
|---|---|---|---|---|---|---|
| Rosewood | 6,424 | 7,135 | 12,326 | 19,615 | 27,815 | 38,173 |

| | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
|---|---|---|---|---|---|---|
| Brassall | 5,195 | 5,523 | 6,033 | 6,283 | 6,544 | 6,647 |
| Bundamba | 4,146 | 4,434 | 5,276 | 5,527 | 5,860 | 6,369 |
| Churchill - Yamanto | 3,453 | 3,520 | 3,496 | 3,405 | 3,410 | 3,486 |
| Ipswich - Central | 2,851 | 2,919 | 3,964 | 5,288 | 6,681 | 8,790 |
| Ipswich - East | 7,918 | 8,330 | 9,183 | 9,959 | 11,259 | 13,351 |
| Ipswich - North | 2,885 | 3,178 | 3,629 | 4,022 | 3,933 | 3,904 |
| Karalee - Barellan Point | 3,157 | 3,249 | 3,413 | 3,407 | 3,368 | 3,453 |
| Leichhardt - One Mile | 2,887 | 3,033 | 3,213 | 3,493 | 3,943 | 4,362 |
| North Ipswich - Tivoli | 2,833 | 2,996 | 3,396 | 3,778 | 4,454 | 5,302 |
| Raceview | 7,217 | 7,378 | 7,887 | 8,480 | 8,897 | 9,245 |
| Ripley | 5,403 | 8,700 | 20,778 | 32,510 | 47,291 | 66,809 |
| Riverview | 872 | 907 | 1,008 | 1,019 | 1,003 | 1,010 |
| Bellbird Park - Brookwater | 9,331 | 11,042 | 14,686 | 20,706 | 25,848 | 29,155 |
| Camira - Gailes | 4,564 | 4,650 | 4,717 | 4,813 | 4,831 | 4,899 |
| Carole Park | - | - | - | - | - | - |
| Collingwood Park - Redbank | 4,251 | 4,609 | 5,259 | 6,005 | 6,983 | 8,203 |
| Goodna | 4,017 | 4,162 | 4,617 | 4,883 | 5,364 | 5,883 |
| New Chum | - | - | - | - | - | - |
| Redbank Plains | 9,057 | 9,902 | 11,310 | 13,890 | 16,093 | 18,062 |
| Springfield | 3,883 | 4,084 | 4,270 | 4,580 | 5,287 | 6,253 |
| Springfield Lakes | 9,740 | 10,757 | 15,530 | 23,177 | 32,704 | 44,649 |
| **Total** | **100,084** | **110,507** | **143,992** | **184,841** | **231,566** | **288,006** |

Source: CDM Smith Analysis (2020)

As with the assessment in the preceding section, this assessment requires resident workforce population projections at the two-digit ANZSIC level. The growth in the incidence of employment at the two-digit ANZSIC sector level is anticipated to remain constant between 2016 and 2026, before decreasing at the following rates over the subsequent periods within each SA2:

- 2026 to 2031: growth over this period is 25.0% less than estimated for the 2016 to 2026 period
- 2031 to 2036: growth over this period is estimated to be half that recorded in the preceding period and
- 2036 to 2041: growth over this period is anticipated to be a quarter of the growth in the 2031 to 2036 period.

These assumptions demonstrate an increasing resident workforce population overtime, however, the rate at which the working resident population increases will slow as the city becomes increasingly developed and industries of significance shift. The projected incidence of employment by two-digit ANZSIC category between 2016 and 2041 were also rebased to ensure that the sum of incidences reconciles to the total working resident population by SA2, the total employment by 2-digit ANZSIC categories and by SA2 are further detailed in Appendix K.

## F.3 Industrial Employment Retention

Industrial employment retention compares the size of the working population employed in industrial sectors under the three scenarios (discussed in Section 9.1.3) against the resident workforce employed in industrial sectors, expressed as a ratio. Employment retention greater than 100% represents a net inflow of industrial workers, whereas employment retention less than 100% represents a net outflow of industrial workers.

The resident workforce industrial employment projections have been determined utilising sectors that require industrial land. Typically, the key industry sectors which are broadly considered to locate in industrial areas include:

- Manufacturing
- Transport and storage and

- Wholesale trade.

Table 10-5 summarises the two-digit ANZSIC categories contained within each industrial land use category.

### F.3.1 Two Digit ANZSIC Sectors within each Industrial Land Use Category

| Two Digit ANZSIC Sectors |
|---|
| • Beverage and Tobacco Product Manufacturing<br>• Food Product Manufacturing<br>• Wood Product Manufacturing<br>• Pulp, Paper and Converted Paper Product Manufacturing<br>• Petroleum and Coal Product Manufacturing<br>• Basic Chemical and Chemical Product Manufacturing<br>• Polymer Product and Rubber Product Manufacturing<br>• Non-Metallic Mineral Product Manufacturing<br>• Primary Metal and Metal Product Manufacturing<br>• Machinery and Equipment Manufacturing<br>• Fabricated Metal Product Manufacturing<br>• Transport Equipment Manufacturing<br>• Furniture and Other Manufacturing<br>• Textile, Leather, Clothing and Footwear Manufacturing<br>• Printing (including the Reproduction of Recorded Media)<br>• Publishing (except Internet and Music Publishing)<br>• Construction Services<br>• Repair and Maintenance<br>• Basic Material Wholesaling<br>• Machinery and Equipment Wholesaling<br>• Motor Vehicle and Motor Vehicle Parts Wholesaling<br>• Grocery, Liquor and Tobacco Product Wholesaling<br>• Other Goods Wholesaling<br>• Warehousing and Storage Services<br>• Motor Vehicle and Motor Vehicle Parts Retailing<br>• Road Transport<br>• Rail Transport<br>• Transport Support Services<br>• Postal and Courier Pick-up and Delivery Services |

Based on the above approach, total industrial employment retention in the Ipswich City is anticipated to be approximately 57.6% as of 2019 under Scenario One and Three and approximately 60.6% under Scenario Two (conservative and optimistic), indicating leakage away from Ipswich City. Industrial employment retention in 2019 is estimated to be largest in the Riverview, Ipswich – Central and Bundamba SA2s, all recording employment retention of greater than 100.0%. This indicates the Riverview, Ipswich – Central and Bundamba SA2s experienced a net inflow of workers.

Under the Scenario One employment projections, it is estimated that Ipswich City will have a decrease in industrial employment retention in the order of 17.0% points between 2019 and 2041. Additionally, the Riverview SA2 is anticipated to experience the most significant increases in employment retention over the projection period. Conversely, the Ipswich – Central SA2 is estimated to have the largest decrease in employment retention over the projection period. The decreasing retention rate suggests a decrease in the working population, or a significant increase in the resident population of the SA2. It is estimated that industrial employment retention in the Ipswich City will decrease by 9.1% points and 3.4% points under the Scenario Two (conservative) and Scenario Two (optimistic), therefore suggesting that by 2041 the City will have a net outflow of workers to the area, although not to the same extent as that under Scenario One. Similar to under that scenario, the majority of SA2s within Ipswich City are anticipated to experience a decrease in the employment retention rate growth

between 2019 and 2041. The Riverview, Churchill – Yamanto and Bundamba SA2s with the most significant changes in estimated industrial employment retention under Scenario Two (conservative and optimistic) between 2019 and 2041.

The estimates of industrial employment retention under Scenario Three employment projections (our preferred Scenario) suggest that the Ipswich City employment retention rate is anticipated to increase by 6.4% points between 2019 and 2041. This estimate is marginally higher than that of Scenario One and two (conservative and optimistic). Under Scenario Three the most significantly impacted SA2s are the same as the preceding scenarios, however, the growth between 2019 and 2041 is projected as follows:

- Riverview SA2: increase in employment retention rate of 1,008.3%
- Churchill – Yamanto SA2: increase in the employment retention rate of 342.4% and
- Bundamba SA2: decrease in the employment retention rate of 105.2%.

Appendix L details the employment retention by SA2 under each scenario, however, this data is summarised in Table 10-6 below.

### F.3.2 Industrial Employment Retention– Ipswich City and SA2s, 2019 and 2041

| | Scenario One | Scenario Two (Conservative) | Scenario Two (Optimistic) | Scenario Three |
|---|---|---|---|---|
| Rosewood | -24.8% | -21.2% | -18.4% | -12.6% |
| Brassall | -4.0% | -3.2% | -2.7% | -2.0% |
| Bundamba | 25.7% | 53.2% | 71.9% | 105.2% |
| Churchill - Yamanto | 178.6% | 243.1% | 285.7% | 342.4% |
| Ipswich - Central | -31.0% | -10.9% | 3.3% | 15.7% |
| Ipswich - East | 1.7% | 5.1% | 7.5% | 10.2% |
| Ipswich - North | -2.0% | -0.4% | 0.7% | 1.9% |
| Karalee - Barellan Point | 19.3% | 27.8% | 33.4% | 27.0% |
| Leichhardt - One Mile | 3.8% | 25.2% | 40.0% | 67.1% |
| North Ipswich - Tivoli | -16.8% | -14.7% | -12.3% | -7.6% |
| Raceview | -3.8% | -1.5% | 0.2% | 1.2% |
| Ripley | -10.3% | -7.6% | -5.6% | -6.7% |
| Riverview | 305.7% | 547.4% | 710.6% | 1,008.3% |
| Bellbird Park - Brookwater | -2.5% | -0.5% | 0.9% | -0.6% |
| Camira - Gailes | -1.8% | -0.7% | 0.1% | 0.3% |
| Carole Park | - | - | - | - |
| Collingwood Park - Redbank | -14.2% | 2.0% | 13.3% | 51.0% |
| Goodna | 6.8% | 14.3% | 19.4% | 24.0% |
| New Chum | - | - | - | - |
| Redbank Plains | -3.4% | -3.3% | -3.3% | -3.0% |
| Springfield | 0.9% | 2.3% | 3.2% | 4.7% |
| Springfield Lakes | -4.6% | -3.2% | -2.2% | -1.7% |
| Ipswich City | -17.0% | -9.1% | -3.4% | 6.4% |

Note: A negative growth in employment retention suggests a net outflow of workers, or an increase in the resident population, between 2019 and 2041.
Source: CDM Smith Analysis

# Appendix G Resident Workforce – Ipswich City SA2s

### G.1.1 Educational Attainment – Ipswich SA2s Resident Workforce, 2011 and 2016

| | 2011 | | | | 2016 | | | |
|---|---|---|---|---|---|---|---|---|
| | Persons with a non-school qualification | Persons with Bachelor or higher | Persons with Diploma | Persons with Certificate | Persons with a non-school qualification | Persons with Bachelor or higher | Persons with Diploma | Persons with Certificate |
| Rosewood | 29.2% | 5.3% | 5.4% | 18.5% | 35.1% | 6.7% | 6.9% | 21.6% |
| Ripley | 35.2% | 7.2% | 6.0% | 22.0% | 43.2% | 11.1% | 7.7% | 24.4% |
| Springfield Lakes | 42.0% | 15.5% | 8.4% | 18.1% | 45.4% | 18.2% | 9.1% | 18.0% |
| Springfield | 34.7% | 10.6% | 6.3% | 17.9% | 40.0% | 12.5% | 7.7% | 19.7% |
| Camira - Gailes | 31.8% | 6.6% | 5.8% | 19.4% | 38.4% | 9.0% | 7.4% | 22.0% |
| Carole Park | | | | | | | | |
| Bellbird Park - Brookwater | 37.7% | 12.1% | 7.5% | 18.1% | 44.1% | 15.8% | 8.8% | 19.5% |
| Redbank Plains | 27.6% | 5.5% | 4.5% | 17.6% | 32.7% | 6.4% | 6.4% | 19.8% |
| Goodna | 26.2% | 6.7% | 4.6% | 14.8% | 30.6% | 7.8% | 6.2% | 16.6% |
| Collingwood Park - Redbank | 31.7% | 7.6% | 5.9% | 18.3% | 34.3% | 7.9% | 7.1% | 19.4% |
| New Chum | | | | | | | | |
| Riverview | 20.0% | 3.9% | 2.9% | 13.2% | 27.6% | 5.4% | 5.4% | 16.9% |
| Karalee - Barellan Point | 41.5% | 13.7% | 7.8% | 20.0% | 45.4% | 14.8% | 8.7% | 21.9% |
| Bundamba | 28.9% | 6.1% | 5.1% | 17.7% | 34.7% | 7.6% | 6.4% | 20.7% |
| Ipswich - North | 39.1% | 12.3% | 7.2% | 19.7% | 43.3% | 13.8% | 8.0% | 21.4% |
| North Ipswich - Tivoli | 31.6% | 6.8% | 4.7% | 20.0% | 36.5% | 7.8% | 6.8% | 21.9% |
| Ipswich - East | 33.1% | 9.2% | 5.6% | 18.3% | 37.4% | 10.1% | 7.1% | 20.2% |
| Raceview | 32.5% | 6.8% | 5.5% | 20.1% | 37.1% | 8.2% | 7.0% | 21.9% |
| Churchill - Yamanto | 32.9% | 6.3% | 5.4% | 21.2% | 38.7% | 7.3% | 7.1% | 24.2% |
| Leichhardt - One Mile | 26.2% | 4.6% | 3.9% | 17.7% | 30.5% | 5.3% | 5.2% | 19.9% |
| Ipswich - Central | 35.0% | 12.9% | 6.2% | 15.8% | 39.5% | 14.2% | 7.4% | 17.9% |
| Brassall | 32.6% | 8.2% | 5.3% | 19.1% | 36.8% | 8.9% | 6.9% | 21.0% |

Source: ABS Census of Population and Housing (2011 and 2016)

## G.1.2 Educational Attainment – Ipswich SA2s Industrial Resident Workforce, 2011 and 2016

| | 2011 | | | | 2016 | | | |
|---|---|---|---|---|---|---|---|---|
| | Persons with a non-school qualification | Persons with Bachelor or higher | Persons with Diploma | Persons with Certificate | Persons with a non-school qualification | Persons with Bachelor or higher | Persons with Diploma | Persons with Certificate |
| Rosewood | 41.6% | 2.3% | 6.0% | 33.2% | 47.8% | 3.7% | 6.5% | 37.6% |
| Ripley | 47.7% | 3.7% | 6.9% | 37.1% | 54.5% | 6.4% | 6.6% | 41.5% |
| Springfield Lakes | 48.6% | 11.1% | 7.8% | 29.7% | 53.5% | 14.3% | 9.6% | 29.6% |
| Springfield | 39.8% | 5.7% | 5.8% | 28.3% | 48.7% | 9.4% | 8.8% | 30.5% |
| Camira - Gailes | 38.5% | 3.4% | 5.7% | 29.5% | 42.9% | 4.7% | 6.0% | 32.1% |
| Carole Park | | | | | | | | |
| Bellbird Park - Brookwater | 45.6% | 7.9% | 8.9% | 28.7% | 53.5% | 11.5% | 9.9% | 32.2% |
| Redbank Plains | 32.3% | 3.1% | 3.7% | 25.5% | 42.2% | 5.6% | 6.5% | 30.1% |
| Goodna | 34.3% | 5.5% | 4.5% | 24.3% | 40.3% | 7.5% | 6.8% | 26.0% |
| Collingwood Park - Redbank | 37.4% | 4.8% | 6.1% | 26.5% | 39.4% | 4.9% | 6.5% | 28.0% |
| New Chum | | | | | | | | |
| Riverview | 26.9% | 1.6% | 1.9% | 23.4% | 32.2% | 2.0% | 6.1% | 24.1% |
| Karalee - Barellan Point | 53.7% | 7.7% | 10.8% | 35.3% | 56.5% | 10.8% | 10.8% | 34.9% |
| Bundamba | 35.1% | 2.6% | 4.8% | 27.6% | 42.2% | 4.1% | 6.4% | 31.6% |
| Ipswich - North | 52.3% | 7.9% | 9.2% | 35.2% | 56.5% | 7.0% | 10.3% | 39.2% |
| North Ipswich - Tivoli | 37.0% | 2.4% | 3.8% | 30.8% | 48.7% | 4.6% | 7.2% | 36.9% |
| Ipswich - East | 41.5% | 4.3% | 5.6% | 31.6% | 45.4% | 4.6% | 6.9% | 33.8% |
| Raceview | 38.4% | 3.5% | 4.3% | 30.6% | 45.6% | 3.3% | 5.8% | 36.5% |
| Churchill - Yamanto | 44.2% | 2.1% | 4.1% | 38.0% | 44.9% | 2.3% | 5.6% | 37.0% |
| Leichhardt - One Mile | 37.4% | 2.0% | 4.0% | 31.5% | 46.2% | 3.0% | 4.9% | 38.2% |
| Ipswich - Central | 42.5% | 6.4% | 2.8% | 33.3% | 57.8% | 7.4% | 9.5% | 40.9% |
| Brassall | 43.9% | 4.7% | 7.1% | 32.2% | 49.4% | 3.8% | 8.3% | 37.3% |

Source: ABS Census of Population and Housing (2011 and 2016)

## G.1.3 Occupation – Ipswich SA2s Resident Workforce, 2011 and 2016

| | 2011 | | | | | | | | 2016 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Managers | Professionals | Technicians and Trades Workers | Community and Personal Service Workers | Clerical and Administrative Workers | Sales Workers | Machinery Operators and Drivers | Labourers | Managers | Professionals | Technicians and Trades Workers | Community and Personal Service Workers | Clerical and Administrative Workers | Sales Workers | Machinery Operators and Drivers | Labourers |
| Rosewood | 10.9% | 10.5% | 17.9% | 12.1% | 14.8% | 8.8% | 11.7% | 13.5% | 10.6% | 11.4% | 18.2% | 13.4% | 13.4% | 8.5% | 11.8% | 12.8% |
| Ripley | 8.9% | 12.6% | 18.2% | 11.9% | 17.9% | 10.0% | 9.8% | 10.8% | 10.4% | 15.1% | 18.4% | 12.8% | 16.9% | 10.2% | 7.4% | 9.2% |
| Springfield Lakes | 12.2% | 20.5% | 14.5% | 10.6% | 18.3% | 9.7% | 7.0% | 7.2% | 11.3% | 21.8% | 13.2% | 12.0% | 17.0% | 9.8% | 7.1% | 7.6% |
| Springfield | 10.2% | 14.6% | 16.1% | 11.1% | 17.1% | 10.0% | 10.8% | 10.2% | 10.0% | 14.9% | 15.2% | 12.9% | 16.2% | 10.1% | 10.2% | 10.2% |
| Camira - Gailes | 8.2% | 11.7% | 19.1% | 10.4% | 16.9% | 9.5% | 10.7% | 13.4% | 8.4% | 12.0% | 18.4% | 10.9% | 16.0% | 9.4% | 11.3% | 13.6% |
| Carole Park | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| Bellbird Park - Brookwater | 13.8% | 16.8% | 14.9% | 9.9% | 17.1% | 9.6% | 7.7% | 10.3% | 12.9% | 19.9% | 13.8% | 11.6% | 15.6% | 9.7% | 7.7% | 8.8% |
| Redbank Plains | 6.4% | 9.4% | 16.5% | 10.3% | 14.9% | 9.8% | 14.9% | 17.6% | 6.7% | 9.2% | 14.8% | 13.4% | 13.7% | 9.7% | 15.7% | 17.1% |
| Goodna | 6.4% | 10.5% | 15.7% | 10.5% | 15.6% | 7.8% | 14.8% | 19.0% | 6.0% | 11.4% | 13.6% | 13.4% | 12.6% | 8.3% | 14.7% | 19.9% |
| Collingwood Park - Redbank | 8.5% | 12.5% | 15.6% | 10.5% | 16.8% | 9.9% | 11.1% | 15.6% | 8.3% | 11.3% | 15.0% | 12.7% | 15.5% | 9.9% | 11.9% | 15.6% |
| New Chum | | | | | | | | | | | | | | | | |
| Riverview | 5.4% | 10.1% | 14.0% | 11.9% | 12.5% | 6.3% | 13.7% | 27.3% | 5.2% | 9.2% | 12.5% | 14.9% | 12.2% | 7.7% | 15.4% | 24.1% |
| Karalee - Barellan Point | 12.8% | 20.0% | 17.4% | 8.8% | 18.1% | 8.5% | 6.2% | 8.0% | 13.0% | 20.7% | 15.8% | 10.6% | 16.5% | 9.6% | 6.1% | 7.7% |
| Bundamba | 7.3% | 11.8% | 16.5% | 11.7% | 14.8% | 9.1% | 11.5% | 17.4% | 8.0% | 11.9% | 15.0% | 12.4% | 13.9% | 10.3% | 12.2% | 16.5% |
| Ipswich - North | 10.6% | 17.7% | 16.9% | 9.5% | 19.4% | 8.9% | 7.4% | 9.6% | 11.7% | 18.7% | 16.8% | 11.6% | 16.9% | 9.0% | 6.1% | 8.8% |

| | 2011 | | | | | | | | 2016 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Managers | Professionals | Technicians and Trades Workers | Community and Personal Service Workers | Clerical and Administrative Workers | Sales Workers | Machinery Operators and Drivers | Labourers | Managers | Professionals | Technicians and Trades Workers | Community and Personal Service Workers | Clerical and Administrative Workers | Sales Workers | Machinery Operators and Drivers | Labourers |
| North Ipswich - Tivoli | 7.6% | 13.1% | 16.9% | 13.3% | 13.0% | 9.6% | 10.8% | 15.5% | 8.8% | 14.3% | 16.4% | 14.2% | 12.7% | 9.9% | 9.6% | 14.2% |
| Ipswich - East | 7.8% | 16.2% | 16.2% | 12.5% | 14.7% | 9.4% | 8.7% | 14.5% | 8.1% | 15.8% | 14.5% | 13.5% | 14.1% | 10.1% | 9.3% | 14.4% |
| Raceview | 7.7% | 12.6% | 17.8% | 13.2% | 16.6% | 10.7% | 9.5% | 12.1% | 8.1% | 13.2% | 16.2% | 14.5% | 15.0% | 10.5% | 10.1% | 12.7% |
| Churchill - Yamanto | 7.7% | 11.4% | 19.6% | 12.7% | 16.7% | 10.3% | 8.6% | 13.1% | 7.4% | 12.5% | 17.9% | 14.5% | 15.4% | 10.7% | 9.0% | 12.9% |
| Leichhardt - One Mile | 6.5% | 10.5% | 16.2% | 14.9% | 13.2% | 9.5% | 11.5% | 17.7% | 6.4% | 11.0% | 14.8% | 15.2% | 12.2% | 10.6% | 12.7% | 17.1% |
| Ipswich - Central | 9.4% | 20.4% | 13.5% | 13.2% | 14.4% | 9.4% | 7.1% | 12.7% | 10.3% | 21.4% | 13.9% | 12.7% | 13.5% | 9.5% | 6.9% | 11.4% |
| Brassall | 9.7% | 15.4% | 15.5% | 12.3% | 15.5% | 10.8% | 8.3% | 12.2% | 8.6% | 14.8% | 15.4% | 14.4% | 14.8% | 10.8% | 7.9% | 13.2% |

Source: ABS Census of Population and Housing (2011 and 2016)

## G.1.4 Occupation – Ipswich SA2s Resident Industrial Workforce, 2011 and 2016

| | 2011 | | | | | | | | 2016 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Managers | Professionals | Technicians and Trades Workers | Community and Personal Service Workers | Clerical and Administrative Workers | Sales Workers | Machinery Operators and Drivers | Labourers | Managers | Professionals | Technicians and Trades Workers | Community and Personal Service Workers | Clerical and Administrative Workers | Sales Workers | Machinery Operators and Drivers | Labourers |
| Rosewood | 11.0% | 3.1% | 21.7% | 0.5% | 13.4% | 6.0% | 25.3% | 19.1% | 10.0% | 4.1% | 19.2% | 1.4% | 13.4% | 4.6% | 30.1% | 17.0% |
| Ripley | 9.1% | 3.3% | 25.8% | 0.9% | 15.2% | 6.1% | 24.6% | 14.9% | 15.1% | 5.4% | 20.2% | 2.6% | 17.1% | 3.8% | 20.5% | 15.3% |
| Springfield Lakes | 14.5% | 8.7% | 16.4% | 0.9% | 20.2% | 8.7% | 19.5% | 10.9% | 13.5% | 9.4% | 14.5% | 1.1% | 20.0% | 6.2% | 24.7% | 10.6% |
| Springfield | 11.5% | 5.4% | 15.3% | 0.3% | 16.6% | 8.6% | 26.9% | 15.3% | 12.8% | 5.6% | 12.9% | 0.7% | 16.9% | 5.2% | 32.5% | 13.3% |
| Camira - Gailes | 9.2% | 3.5% | 20.9% | 0.5% | 15.2% | 5.6% | 26.3% | 18.7% | 9.8% | 3.8% | 16.7% | 0.4% | 17.1% | 6.1% | 30.0% | 16.0% |
| Carole Park | | | | | | | | | | | | | | | | |
| Bellbird Park - Brookwater | 14.3% | 6.3% | 18.4% | 1.1% | 17.1% | 6.6% | 21.7% | 14.5% | 16.9% | 7.2% | 14.9% | 0.8% | 17.7% | 3.9% | 25.6% | 13.0% |
| Redbank Plains | 5.7% | 2.8% | 17.8% | 0.3% | 13.4% | 4.2% | 31.9% | 24.0% | 5.0% | 3.0% | 13.8% | 0.5% | 12.4% | 4.5% | 36.9% | 24.0% |
| Goodna | 4.7% | 3.9% | 16.9% | 0.8% | 13.6% | 3.3% | 33.1% | 23.7% | 6.0% | 2.7% | 14.3% | 0.4% | 11.2% | 3.3% | 35.2% | 27.0% |
| Collingwood Park - Redbank | 7.6% | 4.7% | 16.9% | 0.0% | 13.5% | 5.1% | 26.7% | 25.5% | 8.2% | 2.7% | 13.9% | 0.3% | 13.4% | 4.2% | 32.7% | 24.5% |
| New Chum | | | | | | | | | | | | | | | | |
| Riverview | 5.7% | 2.5% | 11.7% | 0.0% | 7.9% | 1.9% | 30.0% | 40.4% | 1.5% | 0.0% | 7.3% | 2.0% | 13.2% | 0.0% | 40.0% | 36.1% |
| Karalee - Barellan Point | 19.3% | 9.2% | 21.0% | 0.6% | 18.6% | 6.9% | 16.7% | 7.7% | 16.9% | 10.6% | 19.3% | 0.8% | 19.1% | 7.8% | 17.4% | 8.1% |
| Bundamba | 6.6% | 4.1% | 17.8% | 1.1% | 11.9% | 3.8% | 27.4% | 27.4% | 6.2% | 4.2% | 14.7% | 0.9% | 12.5% | 3.6% | 35.0% | 22.9% |
| Ipswich - North | 15.1% | 5.9% | 22.9% | 0.0% | 16.3% | 8.5% | 18.7% | 12.5% | 14.6% | 8.0% | 20.1% | 1.3% | 17.8% | 5.8% | 19.8% | 12.6% |

| | 2011 | | | | | | | | 2016 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Managers | Professionals | Technicians and Trades Workers | Community and Personal Service Workers | Clerical and Administrative Workers | Sales Workers | Machinery Operators and Drivers | Labourers | Managers | Professionals | Technicians and Trades Workers | Community and Personal Service Workers | Clerical and Administrative Workers | Sales Workers | Machinery Operators and Drivers | Labourers |
| North Ipswich - Tivoli | 6.3% | 3.9% | 18.7% | 0.5% | 12.0% | 5.7% | 29.5% | 23.3% | 9.8% | 6.2% | 13.3% | 0.0% | 15.1% | 7.1% | 27.2% | 21.3% |
| Ipswich - East | 7.3% | 4.4% | 21.5% | 1.0% | 12.5% | 4.1% | 26.8% | 22.3% | 7.7% | 3.8% | 16.0% | 2.2% | 13.9% | 4.8% | 29.9% | 21.7% |
| Raceview | 8.1% | 3.2% | 20.4% | 0.7% | 15.1% | 6.2% | 24.6% | 21.6% | 7.3% | 3.1% | 17.4% | 1.6% | 14.9% | 4.3% | 32.6% | 19.0% |
| Churchill - Yamanto | 8.0% | 5.1% | 23.6% | 0.0% | 16.4% | 6.0% | 20.3% | 20.5% | 8.7% | 2.9% | 19.8% | 0.5% | 16.7% | 5.3% | 23.8% | 22.3% |
| Leichhardt - One Mile | 6.7% | 2.3% | 20.0% | 1.0% | 11.7% | 3.3% | 28.5% | 26.7% | 6.5% | 3.2% | 14.4% | 1.8% | 10.8% | 4.9% | 34.8% | 23.5% |
| Ipswich - Central | 11.6% | 4.4% | 21.6% | 0.8% | 9.8% | 3.2% | 26.5% | 22.0% | 10.9% | 7.8% | 15.6% | 1.3% | 12.5% | 3.1% | 29.1% | 19.7% |
| Brassall | 10.8% | 5.9% | 19.1% | 0.7% | 11.3% | 5.6% | 25.5% | 21.2% | 10.1% | 6.2% | 13.8% | 1.6% | 15.9% | 6.4% | 25.1% | 21.0% |

Source: ABS Census of Population and Housing (2011 and 2016)

## G.1.5 Industry of Employment – Ipswich SA2s Resident Workforce, 2011

| | 2011 | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Agriculture, Forestry and Fishing | Mining | Manufacturing | Electricity, Gas, Water and Waste Services | Construction | Wholesale Trade | Retail Trade | Accommodation and Food Services | Transport, Postal and Warehousing | Information Media and Telecommunic | Financial and Insurance Services | Rental, Hiring and Real Estate Services | Professional, Scientific and Technical | Administrative and Support Services | Public Administration and Safety | Education and Training | Health Care and Social Assistance | Arts and Recreation Services | Other Services | Total |
| Rosewood | 3.8% | 2.0% | 12.6% | 1.9% | 7.7% | 3.6% | 9.6% | 4.9% | 8.5% | 0.4% | 1.5% | 1.3% | 3.4% | 2.5% | 13.4% | 7.3% | 10.4% | 0.8% | 4.3% | 100.0% |
| Ripley | 0.2% | 1.1% | 12.0% | 1.8% | 9.4% | 3.3% | 10.7% | 6.1% | 7.8% | 0.7% | 2.7% | 2.1% | 4.5% | 2.9% | 8.8% | 8.4% | 12.0% | 0.5% | 4.9% | 100.0% |
| Springfield Lakes | 0.2% | 1.4% | 12.6% | 1.0% | 7.6% | 5.3% | 10.8% | 4.7% | 5.9% | 1.1% | 4.2% | 1.7% | 6.8% | 3.2% | 10.5% | 6.3% | 11.8% | 0.8% | 3.6% | 100.0% |
| Springfield | 0.4% | 1.3% | 16.2% | 1.3% | 8.0% | 5.3% | 10.9% | 4.5% | 7.9% | 0.8% | 2.9% | 1.8% | 5.0% | 3.1% | 8.7% | 5.7% | 12.0% | 0.8% | 3.8% | 100.0% |
| Camira - Gailes | 0.3% | 0.9% | 18.1% | 1.0% | 9.5% | 5.7% | 10.0% | 5.7% | 7.4% | 1.1% | 2.2% | 1.2% | 4.7% | 3.1% | 6.4% | 6.5% | 10.7% | 1.0% | 4.2% | 100.0% |
| Carole Park | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 100.0% |
| Bellbird Park - Brookwater | 0.1% | 1.2% | 14.1% | 1.6% | 8.7% | 5.6% | 10.8% | 4.7% | 5.7% | 1.2% | 3.4% | 1.9% | 6.3% | 3.2% | 9.1% | 7.2% | 10.9% | 1.0% | 3.5% | 100.0% |
| Redbank Plains | 0.3% | 0.7% | 19.8% | 1.2% | 8.8% | 5.4% | 12.7% | 5.3% | 7.8% | 0.9% | 2.3% | 1.4% | 3.8% | 3.4% | 6.3% | 4.6% | 10.8% | 0.7% | 4.0% | 100.0% |
| Goodna | 0.3% | 0.6% | 20.1% | 0.9% | 7.0% | 5.7% | 9.5% | 6.1% | 8.3% | 1.1% | 2.5% | 1.3% | 4.9% | 3.6% | 6.9% | 5.3% | 11.2% | 0.7% | 4.4% | 100.0% |
| Collingwood Park - Redbank | 0.3% | 0.6% | 17.8% | 1.1% | 7.4% | 5.0% | 10.9% | 5.0% | 7.8% | 1.3% | 2.9% | 1.0% | 4.5% | 3.3% | 8.6% | 6.2% | 12.1% | 0.7% | 3.6% | 100.0% |
| New Chum | | | | | | | | | | | | | | | | | | | | |
| Riverview | 1.1% | 0.9% | 26.2% | 0.3% | 5.6% | 3.6% | 8.8% | 5.0% | 7.3% | 1.0% | 2.0% | 0.8% | 2.7% | 4.7% | 7.0% | 5.3% | 13.2% | 0.8% | 4.1% | 100.0% |
| Karalee - Barellan Point | 0.6% | 1.0% | 11.5% | 2.2% | 9.8% | 4.5% | 8.9% | 2.9% | 5.6% | 1.4% | 2.5% | 2.2% | 7.2% | 2.2% | 9.5% | 10.0% | 11.6% | 0.6% | 4.6% | 100.0% |
| Bundamba | 0.6% | 0.7% | 16.1% | 1.1% | 8.0% | 3.9% | 11.1% | 5.5% | 8.3% | 1.3% | 2.2% | 1.1% | 3.9% | 3.8% | 7.9% | 7.2% | 12.3% | 1.5% | 3.8% | 100.0% |
| Ipswich - North | 0.8% | 0.9% | 11.0% | 2.3% | 10.3% | 4.5% | 9.2% | 4.2% | 6.9% | 0.4% | 2.3% | 1.8% | 5.3% | 3.2% | 9.7% | 8.9% | 12.8% | 1.3% | 3.7% | 100.0% |
| North Ipswich - Tivoli | 0.3% | 1.0% | 12.4% | 1.1% | 8.8% | 3.6% | 11.4% | 5.9% | 7.6% | 0.9% | 1.2% | 1.1% | 3.8% | 4.3% | 10.2% | 6.9% | 14.8% | 0.9% | 3.2% | 100.0% |
| Ipswich - East | 0.4% | 0.8% | 13.3% | 1.4% | 6.9% | 3.3% | 11.1% | 6.3% | 6.1% | 1.1% | 2.2% | 1.4% | 4.7% | 3.6% | 9.9% | 8.3% | 14.3% | 1.2% | 3.6% | 100.0% |
| Raceview | 0.3% | 1.3% | 12.5% | 1.4% | 7.1% | 3.7% | 11.8% | 5.3% | 6.6% | 0.7% | 2.6% | 1.2% | 3.7% | 2.6% | 14.1% | 7.6% | 13.2% | 0.6% | 4.1% | 100.0% |

| | 2011 | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Agriculture, Forestry and Fishing | Mining | Manufacturing | Electricity, Gas, Water and Waste Services | Construction | Wholesale Trade | Retail Trade | Accommodation and Food Services | Transport, Postal and Warehousing | Information Media and Telecommunic | Financial and Insurance Services | Rental, Hiring and Real Estate Services | Professional, Scientific and Technical | Administrative and Support Services | Public Administration and Safety | Education and Training | Health Care and Social Assistance | Arts and Recreation Services | Other Services | Total |
| Churchill - Yamanto | 0.5% | 1.1% | 14.1% | 1.9% | 7.8% | 3.4% | 12.4% | 4.6% | 6.4% | 0.5% | 2.2% | 1.3% | 3.8% | 2.4% | 12.3% | 7.5% | 13.0% | 0.6% | 3.7% | 100.0% |
| Leichhardt - One Mile | 1.1% | 0.8% | 14.2% | 1.9% | 7.0% | 3.6% | 11.9% | 5.9% | 7.7% | 0.5% | 1.8% | 1.3% | 3.7% | 3.4% | 10.7% | 5.1% | 14.7% | 0.7% | 4.0% | 100.0% |
| Brassall | 0.6% | 0.8% | 12.3% | 1.5% | 7.2% | 3.1% | 13.1% | 6.0% | 5.4% | 0.7% | 2.2% | 1.5% | 4.3% | 2.6% | 12.1% | 8.7% | 13.6% | 1.1% | 3.2% | 100.0% |

Source: ABS Census of Population and Housing (2011 and 2016)

## G.1.6 Industry of Employment – Ipswich SA2s Resident Workforce, 2016

| | 2016 | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Agriculture, Forestry and Fishing | Mining | Manufacturing | Electricity, Gas, Water and Waste Services | Construction | Wholesale Trade | Retail Trade | Accommodation and Food Services | Transport, Postal and Warehousing | Information Media and Telecommunic | Financial and Insurance Services | Rental, Hiring and Real Estate Services | Professional, Scientific and Technical | Administrative and Support Services | Public Administration and Safety | Education and Training | Health Care and Social Assistance | Arts and Recreation Services | Other Services | Total |
| Rosewood | 3.6% | 1.7% | 9.6% | 1.8% | 8.6% | 2.7% | 10.1% | 4.5% | 7.3% | 0.6% | 1.8% | 1.4% | 3.9% | 3.3% | 12.7% | 8.9% | 11.9% | 1.0% | 4.7% | 100.0% |
| Ripley | 0.5% | 1.3% | 9.0% | 1.9% | 10.0% | 3.3% | 10.5% | 5.0% | 4.7% | 0.7% | 3.6% | 1.8% | 4.4% | 3.1% | 13.8% | 9.8% | 11.7% | 0.7% | 4.5% | 100.0% |
| Springfield Lakes | 0.5% | 1.3% | 8.0% | 1.1% | 7.5% | 3.8% | 10.3% | 6.2% | 6.5% | 1.7% | 4.4% | 2.1% | 6.4% | 3.3% | 10.6% | 8.1% | 13.3% | 1.1% | 3.6% | 100.0% |
| Springfield | 0.6% | 1.1% | 10.7% | 1.1% | 7.9% | 3.7% | 10.0% | 6.9% | 8.7% | 1.3% | 3.1% | 1.9% | 4.8% | 3.7% | 8.1% | 8.1% | 12.8% | 1.1% | 4.2% | 100.0% |
| Camira - Gailes | 0.6% | 0.6% | 12.7% | 1.0% | 12.4% | 4.4% | 10.6% | 5.7% | 7.1% | 1.1% | 2.5% | 1.6% | 4.3% | 3.7% | 5.7% | 8.1% | 12.6% | 0.7% | 4.7% | 100.0% |
| Carole Park | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 100.0% |
| Bellbird Park - Brookwater | 0.5% | 1.3% | 9.5% | 1.2% | 8.6% | 3.5% | 10.5% | 5.3% | 5.5% | 1.4% | 3.0% | 2.0% | 6.6% | 3.1% | 10.5% | 8.7% | 14.1% | 1.1% | 3.3% | 100.0% |
| Redbank Plains | 0.7% | 0.7% | 14.0% | 1.2% | 8.7% | 4.6% | 12.3% | 5.3% | 9.3% | 1.2% | 2.7% | 1.7% | 3.5% | 4.1% | 5.9% | 5.7% | 13.4% | 1.0% | 4.4% | 100.0% |
| Goodna | 0.6% | 0.7% | 15.7% | 0.7% | 7.6% | 4.1% | 10.1% | 5.7% | 8.5% | 1.0% | 2.4% | 1.3% | 3.6% | 5.2% | 6.0% | 6.8% | 13.7% | 0.9% | 5.5% | 100.0% |
| Collingwood Park - Redbank | 0.8% | 0.7% | 13.7% | 1.4% | 8.3% | 4.6% | 11.7% | 5.8% | 7.2% | 1.1% | 2.6% | 1.7% | 4.3% | 3.5% | 6.9% | 7.8% | 13.2% | 0.9% | 3.6% | 100.0% |
| New Chum | | | | | | | | | | | | | | | | | | | | |

| | 2016 | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Agriculture, Forestry and Fishing | Mining | Manufacturing | Electricity, Gas, Water and Waste Services | Construction | Wholesale Trade | Retail Trade | Accommodation and Food Services | Transport, Postal and Warehousing | Information Media and Telecommunic | Financial and Insurance Services | Rental, Hiring and Real Estate Services | Professional, Scientific and Technical | Administrative and Support Services | Public Administration and Safety | Education and Training | Health Care and Social Assistance | Arts and Recreation Services | Other Services | Total |
| Riverview | 1.3% | 0.5% | 15.0% | 1.3% | 6.9% | 3.2% | 8.5% | 6.7% | 10.1% | 0.9% | 1.9% | 0.5% | 3.6% | 5.8% | 6.7% | 6.1% | 14.3% | 1.2% | 5.6% | 100.0% |
| Karalee - Barellan Point | 0.6% | 1.2% | 8.1% | 2.0% | 10.7% | 2.9% | 10.1% | 5.2% | 5.6% | 1.4% | 2.3% | 1.7% | 6.5% | 2.4% | 10.7% | 10.7% | 12.2% | 0.9% | 4.8% | 100.0% |
| Bundamba | 0.7% | 0.4% | 11.1% | 0.9% | 8.7% | 3.2% | 13.6% | 6.1% | 7.8% | 1.0% | 2.1% | 1.7% | 4.0% | 4.2% | 7.0% | 8.3% | 13.6% | 1.3% | 4.1% | 100.0% |
| Ipswich - North | 1.9% | 1.2% | 9.0% | 1.4% | 10.8% | 3.0% | 9.8% | 4.3% | 5.6% | 1.1% | 2.1% | 1.8% | 5.7% | 2.5% | 8.4% | 11.5% | 14.8% | 1.2% | 3.9% | 100.0% |
| North Ipswich - Tivoli | 0.8% | 0.8% | 9.3% | 2.0% | 10.7% | 3.1% | 10.3% | 6.0% | 5.9% | 1.3% | 1.7% | 1.9% | 3.5% | 2.9% | 9.3% | 8.8% | 15.8% | 1.3% | 4.2% | 100.0% |
| Ipswich - East | 0.8% | 0.6% | 9.6% | 1.4% | 8.6% | 2.9% | 10.7% | 6.2% | 6.5% | 1.0% | 2.0% | 1.9% | 4.4% | 4.3% | 9.0% | 9.8% | 15.3% | 1.1% | 4.2% | 100.0% |
| Raceview | 0.5% | 1.0% | 9.3% | 1.5% | 8.3% | 2.7% | 11.9% | 6.2% | 6.3% | 0.7% | 2.3% | 1.6% | 3.6% | 3.1% | 12.5% | 8.9% | 14.3% | 0.9% | 3.9% | 100.0% |
| Churchill - Yamanto | 0.7% | 1.2% | 10.0% | 1.6% | 8.5% | 2.4% | 12.4% | 4.9% | 5.6% | 0.8% | 2.8% | 1.6% | 3.7% | 2.4% | 14.0% | 8.3% | 14.0% | 0.5% | 4.1% | 100.0% |
| Leichhardt - One Mile | 1.3% | 0.8% | 12.0% | 1.6% | 7.7% | 2.8% | 11.1% | 6.4% | 7.4% | 0.6% | 2.1% | 1.4% | 2.4% | 5.2% | 9.3% | 7.6% | 15.3% | 1.1% | 3.9% | 100.0% |
| Brassall | 0.6% | 0.5% | 9.1% | 1.4% | 8.2% | 2.8% | 12.1% | 6.7% | 5.6% | 0.8% | 2.4% | 1.8% | 4.7% | 3.2% | 10.5% | 9.0% | 14.8% | 1.3% | 4.3% | 100.0% |

Source: ABS Census of Population and Housing (2011 and 2016

# Appendix H Working Population – Ipswich City SA2s

### H.1.1 Educational Attainment – Ipswich SA2s Working Population, 2011 and 2016

| | 2011 | | | | 2016 | | | |
|---|---|---|---|---|---|---|---|---|
| | Persons with a non-school qualification | Persons with Bachelor or higher | Persons with Diploma | Persons with Certificate | Persons with a non-school qualification | Persons with Bachelor or higher | Persons with Diploma | Persons with Certificate |
| Rosewood | 61.4% | 14.2% | 13.2% | 34.1% | 68.0% | 17.4% | 14.5% | 36.1% |
| Ripley | 56.7% | 8.4% | 8.4% | 39.9% | 60.5% | 14.7% | 10.1% | 35.7% |
| Springfield Lakes | 54.6% | 22.5% | 10.8% | 21.4% | 58.5% | 25.6% | 11.2% | 21.7% |
| Springfield | 56.6% | 27.0% | 9.0% | 20.7% | 61.1% | 26.4% | 12.2% | 22.4% |
| Camira - Gailes | 52.7% | 16.0% | 9.4% | 27.3% | 61.0% | 20.0% | 9.8% | 31.2% |
| Carole Park | 46.6% | 11.8% | 6.2% | 28.5% | 53.2% | 14.4% | 8.2% | 30.7% |
| Bellbird Park - Brookwater | 65.7% | 27.8% | 11.5% | 26.4% | 66.4% | 28.8% | 11.1% | 26.4% |
| Redbank Plains | 55.8% | 24.4% | 7.1% | 24.3% | 63.9% | 24.1% | 10.7% | 29.1% |
| Goodna | 54.8% | 22.2% | 10.4% | 22.2% | 61.3% | 25.3% | 13.0% | 23.0% |
| Collingwood Park - Redbank | 55.6% | 12.8% | 6.9% | 35.9% | 53.2% | 14.6% | 9.4% | 29.2% |
| New Chum | 35.6% | 5.7% | 9.2% | 20.7% | 51.9% | 10.5% | 8.3% | 33.1% |
| Riverview | 40.7% | 11.2% | 5.5% | 23.9% | 45.0% | 12.0% | 6.9% | 26.1% |
| Karalee - Barellan Point | 57.3% | 19.5% | 12.2% | 25.6% | 58.7% | 17.9% | 9.7% | 31.0% |
| Bundamba | 50.3% | 14.0% | 7.4% | 29.0% | 52.0% | 13.3% | 8.4% | 30.3% |
| Ipswich - North | 49.3% | 11.3% | 8.3% | 29.7% | 57.0% | 14.4% | 8.8% | 33.7% |
| North Ipswich - Tivoli | 40.7% | 9.8% | 7.2% | 23.6% | 49.3% | 12.8% | 10.3% | 26.2% |
| Ipswich - East | 48.9% | 15.9% | 8.6% | 24.4% | 58.3% | 19.5% | 10.3% | 28.5% |
| Raceview | 55.1% | 11.1% | 8.9% | 35.2% | 61.8% | 12.6% | 11.0% | 38.2% |
| Churchill - Yamanto | 43.4% | 9.2% | 7.6% | 26.6% | 49.6% | 12.2% | 10.7% | 26.8% |
| Leichhardt - One Mile | 52.6% | 17.2% | 6.2% | 29.2% | 57.6% | 16.9% | 7.3% | 33.4% |
| Ipswich - Central | 63.5% | 33.8% | 10.5% | 19.1% | 69.6% | 37.3% | 12.1% | 20.3% |
| Brassall | 51.0% | 17.5% | 8.6% | 24.9% | 59.5% | 21.7% | 9.8% | 28.1% |

Source: ABS Census of Population and Housing (2011 and 2016)

## H.1.2 Educational Attainment – Ipswich SA2s Industrial Working Population, 2011 and 2016

| | 2011 | | | | 2016 | | | |
|---|---|---|---|---|---|---|---|---|
| | Persons with a non-school qualification | Persons with Bachelor or higher | Persons with Diploma | Persons with Certificate | Persons with a non-school qualification | Persons with Bachelor or higher | Persons with Diploma | Persons with Certificate |
| Rosewood | 61.4% | 6.9% | 12.8% | 41.7% | 63.6% | 8.7% | 15.0% | 39.9% |
| Ripley | 25.3% | 5.1% | 0.0% | 20.3% | 56.6% | 3.6% | 15.7% | 37.3% |
| Springfield Lakes | 45.8% | 10.4% | 0.0% | 35.4% | 69.3% | 28.9% | 15.7% | 24.7% |
| Springfield | 26.8% | 0.0% | 5.4% | 21.4% | 38.3% | 8.3% | 0.0% | 30.0% |
| Camira - Gailes | 37.8% | 3.9% | 5.5% | 28.3% | 39.1% | 3.6% | 3.6% | 31.8% |
| Carole Park | 45.6% | 11.7% | 5.9% | 28.0% | 52.2% | 14.7% | 7.8% | 29.6% |
| Bellbird Park - Brookwater | 44.0% | 0.0% | 8.0% | 36.0% | 65.3% | 15.3% | 15.3% | 34.7% |
| Redbank Plains | 39.5% | 5.9% | 0.0% | 33.6% | 46.8% | 2.2% | 12.9% | 31.7% |
| Goodna | 43.9% | 7.5% | 7.1% | 29.2% | 51.6% | 15.9% | 5.5% | 30.2% |
| Collingwood Park - Redbank | 63.2% | 5.3% | 4.4% | 53.4% | 48.3% | 6.8% | 6.7% | 34.8% |
| New Chum | 36.0% | 12.0% | 8.0% | 16.0% | 40.6% | 10.1% | 0.0% | 30.4% |
| Riverview | 32.4% | 6.1% | 5.1% | 21.2% | 34.7% | 6.6% | 5.1% | 23.1% |
| Karalee - Barellan Point | 43.3% | 9.6% | 6.7% | 26.9% | 49.1% | 8.0% | 8.0% | 33.0% |
| Bundamba | 38.1% | 4.9% | 5.6% | 27.6% | 42.4% | 6.1% | 6.3% | 30.0% |
| Ipswich - North | 20.0% | 4.6% | 0.0% | 15.4% | 41.4% | 5.2% | 0.0% | 36.2% |
| North Ipswich - Tivoli | 46.7% | 4.6% | 4.9% | 37.2% | 46.1% | 7.3% | 6.9% | 31.9% |
| Ipswich - East | 37.6% | 5.0% | 5.0% | 27.6% | 43.4% | 6.9% | 4.1% | 32.4% |
| Raceview | 35.8% | 1.3% | 6.0% | 28.4% | 51.4% | 6.7% | 5.0% | 39.7% |
| Churchill - Yamanto | 33.1% | 1.1% | 1.1% | 30.8% | 38.5% | 1.3% | 4.0% | 33.2% |
| Leichhardt - One Mile | 45.4% | 5.7% | 4.8% | 34.9% | 48.8% | 5.6% | 7.6% | 35.6% |
| Ipswich - Central | 38.4% | 5.1% | 5.6% | 27.7% | 46.3% | 7.9% | 6.4% | 32.0% |
| Brassall | 29.2% | 3.4% | 0.0% | 25.8% | 38.0% | 0.0% | 6.0% | 32.0% |

Source: ABS Census of Population and Housing (2011 and 2016)

### H.1.3 Occupation – Ipswich SA2s Working Population, 2011 and 2016

| | 2011 | | | | | | | | 2016 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Managers | Professionals | Technicians and Trades Workers | Community and Personal Service Workers | Clerical and Administrative Workers | Sales Workers | Machinery Operators and Drivers | Labourers | Managers | Professionals | Technicians and Trades Workers | Community and Personal Service Workers | Clerical and Administrative Workers | Sales Workers | Machinery Operators and Drivers | Labourers |
| Rosewood | 12.2% | 12.0% | 21.2% | 15.8% | 12.6% | 5.8% | 10.9% | 9.6% | 14.6% | 15.0% | 24.8% | 16.1% | 10.3% | 3.8% | 8.7% | 6.9% |
| Ripley | 9.3% | 11.8% | 20.9% | 10.3% | 17.6% | 7.8% | 12.0% | 10.3% | 10.5% | 10.6% | 19.1% | 10.5% | 10.9% | 5.0% | 20.3% | 14.0% |
| Springfield Lakes | 12.5% | 20.4% | 13.3% | 11.1% | 16.6% | 13.0% | 5.4% | 7.7% | 11.1% | 19.0% | 8.6% | 15.1% | 13.2% | 22.1% | 1.9% | 8.9% |
| Springfield | 9.6% | 17.5% | 14.5% | 13.1% | 15.4% | 11.4% | 8.8% | 9.5% | 7.4% | 22.4% | 10.5% | 22.0% | 9.7% | 15.1% | 4.2% | 8.9% |
| Camira - Gailes | 8.3% | 12.7% | 18.9% | 11.7% | 16.0% | 9.3% | 10.0% | 13.2% | 10.9% | 19.5% | 17.9% | 15.5% | 10.7% | 6.2% | 6.4% | 12.9% |
| Carole Park | 13.4% | 7.2% | 21.4% | 1.0% | 11.8% | 3.7% | 21.8% | 19.9% | 13.4% | 8.4% | 18.4% | 1.0% | 12.0% | 3.9% | 23.9% | 18.9% |
| Bellbird Park - Brookwater | 13.5% | 18.4% | 14.9% | 11.5% | 16.1% | 9.4% | 6.8% | 9.6% | 10.7% | 22.5% | 14.6% | 16.7% | 10.2% | 11.3% | 3.7% | 10.4% |
| Redbank Plains | 6.8% | 11.8% | 15.9% | 11.3% | 13.9% | 10.6% | 13.2% | 16.3% | 8.4% | 21.3% | 15.7% | 18.2% | 8.1% | 10.4% | 6.7% | 10.8% |
| Goodna | 8.2% | 14.8% | 13.4% | 12.4% | 14.1% | 9.4% | 11.0% | 16.8% | 9.2% | 20.6% | 7.7% | 22.3% | 10.3% | 13.1% | 6.2% | 10.9% |
| Collingwood Park - Redbank | 9.0% | 12.1% | 20.4% | 9.0% | 13.1% | 12.7% | 10.3% | 14.0% | 10.1% | 10.1% | 11.6% | 9.4% | 11.8% | 16.8% | 18.3% | 11.6% |
| New Chum | 14.9% | 4.6% | 16.1% | 0.0% | 17.2% | 3.4% | 31.0% | 10.3% | 9.2% | 8.5% | 17.7% | 0.0% | 10.8% | 6.9% | 36.2% | 16.9% |
| Riverview | 6.1% | 10.0% | 11.9% | 7.3% | 8.4% | 2.8% | 9.4% | 44.3% | 6.1% | 10.7% | 13.1% | 5.9% | 6.3% | 1.1% | 7.5% | 49.6% |
| Karalee - Barellan Point | 12.8% | 19.5% | 17.0% | 9.4% | 17.5% | 9.4% | 6.0% | 8.1% | 11.0% | 14.3% | 13.5% | 10.2% | 12.7% | 16.9% | 9.1% | 12.0% |
| Bundamba | 8.4% | 13.0% | 15.7% | 10.0% | 14.8% | 7.1% | 15.9% | 15.4% | 10.4% | 10.6% | 12.9% | 8.2% | 11.3% | 9.5% | 21.3% | 15.6% |
| Ipswich - North | 10.5% | 16.5% | 17.1% | 9.6% | 18.5% | 10.0% | 7.9% | 9.9% | 10.8% | 11.1% | 18.5% | 11.5% | 14.4% | 10.5% | 8.9% | 14.6% |

| | 2011 | | | | | | | | 2016 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Managers | Professionals | Technicians and Trades Workers | Community and Personal Service Workers | Clerical and Administrative Workers | Sales Workers | Machinery Operators and Drivers | Labourers | Managers | Professionals | Technicians and Trades Workers | Community and Personal Service Workers | Clerical and Administrative Workers | Sales Workers | Machinery Operators and Drivers | Labourers |
| North Ipswich - Tivoli | 9.6% | 10.9% | 13.7% | 12.7% | 12.4% | 19.7% | 8.2% | 12.8% | 11.4% | 10.9% | 9.9% | 15.0% | 10.7% | 28.3% | 4.3% | 9.7% |
| Ipswich - East | 8.7% | 16.2% | 14.3% | 13.6% | 13.4% | 13.8% | 7.0% | 13.1% | 9.5% | 16.6% | 10.8% | 20.4% | 10.8% | 18.0% | 2.5% | 11.5% |
| Raceview | 8.0% | 12.3% | 17.9% | 15.4% | 15.8% | 10.0% | 9.4% | 11.4% | 8.6% | 12.0% | 18.6% | 21.4% | 11.4% | 7.9% | 8.8% | 10.5% |
| Churchill - Yamanto | 8.1% | 9.4% | 18.5% | 13.4% | 13.1% | 12.9% | 7.0% | 17.8% | 9.3% | 8.1% | 14.2% | 15.7% | 7.2% | 16.3% | 3.8% | 25.1% |
| Leichhardt - One Mile | 7.8% | 12.0% | 18.2% | 11.8% | 11.9% | 7.4% | 11.0% | 19.9% | 9.2% | 15.1% | 18.4% | 7.1% | 9.2% | 3.9% | 10.9% | 26.7% |
| Ipswich - Central | 8.3% | 31.1% | 9.1% | 14.0% | 19.7% | 6.7% | 3.5% | 7.7% | 7.9% | 34.9% | 7.8% | 14.8% | 18.5% | 6.6% | 3.0% | 6.5% |
| Brassall | 9.4% | 16.2% | 14.1% | 14.0% | 14.0% | 12.7% | 6.8% | 12.5% | 7.5% | 20.2% | 10.4% | 22.2% | 7.2% | 17.2% | 2.5% | 13.2% |

Source: ABS Census of Population and Housing (2011 and 2016)

## H.1.4 Occupation – Ipswich SA2s Industrial Working Population, 2011 and 2016

| | 2011 | | | | | | | | 2016 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Managers | Professionals | Technicians and Trades Workers | Community and Personal Service Workers | Clerical and Administrative Workers | Sales Workers | Machinery Operators and Drivers | Labourers | Managers | Professionals | Technicians and Trades Workers | Community and Personal Service Workers | Clerical and Administrative Workers | Sales Workers | Machinery Operators and Drivers | Labourers |
| Rosewood | 11.0% | 3.1% | 21.7% | 0.5% | 13.4% | 6.0% | 25.3% | 19.1% | 10.5% | 9.9% | 29.7% | 0.0% | 14.0% | 2.8% | 26.4% | 6.8% |
| Ripley | 9.1% | 3.3% | 25.8% | 0.9% | 15.2% | 6.1% | 24.6% | 14.9% | 19.5% | 4.9% | 18.3% | 0.0% | 11.0% | 0.0% | 37.8% | 8.5% |
| Springfield Lakes | 14.5% | 8.7% | 16.4% | 0.9% | 20.2% | 8.7% | 19.5% | 10.9% | 13.8% | 15.2% | 17.9% | 5.5% | 18.6% | 9.0% | 17.2% | 2.8% |
| Springfield | 11.5% | 5.4% | 15.3% | 0.3% | 16.6% | 8.6% | 26.9% | 15.3% | 19.6% | 0.0% | 7.8% | 0.0% | 5.9% | 31.4% | 27.5% | 7.8% |
| Camira - Gailes | 9.2% | 3.5% | 20.9% | 0.5% | 15.2% | 5.6% | 26.3% | 18.7% | 15.7% | 2.9% | 10.8% | 0.0% | 12.7% | 8.8% | 31.4% | 17.6% |
| Carole Park | - | - | - | - | - | - | - | - | 13.4% | 8.5% | 17.1% | 0.1% | 12.7% | 3.5% | 25.9% | 18.7% |
| Bellbird Park - Brookwater | 14.3% | 6.3% | 18.4% | 1.1% | 17.1% | 6.6% | 21.7% | 14.5% | 21.3% | 10.1% | 14.6% | 0.0% | 13.5% | 3.4% | 37.1% | 0.0% |
| Redbank Plains | 5.7% | 2.8% | 17.8% | 0.3% | 13.4% | 4.2% | 31.9% | 24.0% | 16.9% | 0.0% | 18.6% | 0.0% | 10.2% | 5.9% | 38.1% | 10.2% |
| Goodna | 4.7% | 3.9% | 16.9% | 0.8% | 13.6% | 3.3% | 33.1% | 23.7% | 12.9% | 5.2% | 12.9% | 4.1% | 8.8% | 3.1% | 27.3% | 25.8% |
| Collingwood Park - Redbank | 7.6% | 4.7% | 16.9% | 0.0% | 13.5% | 5.1% | 26.7% | 25.5% | 9.0% | 2.8% | 11.9% | 0.9% | 17.2% | 2.6% | 45.5% | 10.1% |
| New Chum | - | - | - | - | - | - | - | - | 13.0% | 0.0% | 14.5% | 0.0% | 10.1% | 0.0% | 36.2% | 26.1% |
| Riverview | 5.7% | 2.5% | 11.7% | 0.0% | 7.9% | 1.9% | 30.0% | 40.4% | 6.3% | 4.4% | 10.3% | 0.6% | 5.8% | 0.6% | 6.5% | 65.5% |
| Karalee - Barellan Point | 19.3% | 9.2% | 21.0% | 0.6% | 18.6% | 6.9% | 16.7% | 7.7% | 15.5% | 0.0% | 13.4% | 0.0% | 17.5% | 11.3% | 36.1% | 6.2% |
| Bundamba | 6.6% | 4.1% | 17.8% | 1.1% | 11.9% | 3.8% | 27.4% | 27.4% | 10.0% | 3.5% | 10.9% | 4.1% | 11.0% | 3.3% | 37.1% | 20.1% |
| Ipswich - North | 15.1% | 5.9% | 22.9% | 0.0% | 16.3% | 8.5% | 18.7% | 12.5% | 19.3% | 0.0% | 15.8% | 0.0% | 10.5% | 15.8% | 22.8% | 15.8% |

| | 2011 | | | | | | | | 2016 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Managers | Professionals | Technicians and Trades Workers | Community and Personal Service Workers | Clerical and Administrative Workers | Sales Workers | Machinery Operators and Drivers | Labourers | Managers | Professionals | Technicians and Trades Workers | Community and Personal Service Workers | Clerical and Administrative Workers | Sales Workers | Machinery Operators and Drivers | Labourers |
| North Ipswich - Tivoli | 6.3% | 3.9% | 18.7% | 0.5% | 12.0% | 5.7% | 29.5% | 23.3% | 16.3% | 3.3% | 18.7% | 0.0% | 16.7% | 19.9% | 17.5% | 7.7% |
| Ipswich - East | 7.3% | 4.4% | 21.5% | 1.0% | 12.5% | 4.1% | 26.8% | 22.3% | 18.9% | 0.0% | 12.9% | 4.5% | 13.6% | 19.7% | 22.0% | 8.3% |
| Raceview | 8.1% | 3.2% | 20.4% | 0.7% | 15.1% | 6.2% | 24.6% | 21.6% | 15.7% | 2.2% | 18.0% | 1.7% | 20.2% | 3.4% | 32.6% | 6.2% |
| Churchill - Yamanto | 8.0% | 5.1% | 23.6% | 0.0% | 16.4% | 6.0% | 20.3% | 20.5% | 9.1% | 1.3% | 20.0% | 1.0% | 7.5% | 1.2% | 6.2% | 53.8% |
| Leichhardt - One Mile | 6.7% | 2.3% | 20.0% | 1.0% | 11.7% | 3.3% | 28.5% | 26.7% | 10.1% | 4.2% | 17.7% | 0.4% | 10.1% | 3.1% | 17.2% | 37.2% |
| Ipswich - Central | 11.6% | 4.4% | 21.6% | 0.8% | 9.8% | 3.2% | 26.5% | 22.0% | 9.7% | 3.8% | 11.2% | 4.1% | 12.0% | 9.9% | 32.8% | 16.5% |
| Brassall | 10.8% | 5.9% | 19.1% | 0.7% | 11.3% | 5.6% | 25.5% | 21.2% | 13.8% | 0.0% | 19.0% | 0.0% | 12.1% | 25.9% | 22.4% | 6.9% |

Source: ABS Census of Population and Housing (2011 and 2016)

## H.1.5 Industry of Employment – Ipswich SA2s Working Population, 2011

| | 2011 | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Agriculture, Forestry and Fishing | Mining | Manufacturing | Electricity, Gas, Water and Waste Services | Construction | Wholesale Trade | Retail Trade | Accommodation and Food Services | Transport, Postal and Warehousing | Information Media and Telecommunic | Financial and Insurance Services | Rental, Hiring and Real Estate Services | Professional, Scientific and Technical | Administrative and Support Services | Public Administration and Safety | Education and Training | Health Care and Social Assistance | Arts and Recreation Services | Other Services | Total |
| Rosewood | 3.0% | 2.5% | 9.6% | 1.0% | 5.7% | 2.2% | 6.5% | 4.1% | 5.8% | 0.3% | 1.0% | 1.0% | 4.6% | 2.4% | 33.4% | 5.9% | 7.2% | 0.8% | 3.1% | 100.0% |
| Ripley | 0.2% | 1.4% | 11.0% | 8.8% | 13.1% | 3.0% | 8.7% | 4.8% | 7.4% | 0.6% | 2.1% | 1.9% | 4.5% | 3.1% | 6.9% | 6.7% | 10.0% | 0.4% | 5.0% | 100.0% |
| Springfield Lakes | 0.1% | 1.0% | 9.6% | 0.8% | 7.8% | 4.1% | 14.3% | 7.1% | 4.6% | 1.1% | 4.0% | 2.1% | 6.8% | 3.2% | 8.3% | 9.3% | 11.0% | 0.7% | 3.8% | 100.0% |
| Springfield | 0.3% | 1.0% | 12.7% | 1.0% | 7.1% | 4.2% | 12.4% | 5.0% | 6.5% | 0.7% | 2.8% | 2.6% | 5.1% | 2.7% | 7.0% | 11.1% | 12.9% | 1.5% | 4.0% | 100.0% |
| Camira - Gailes | 0.3% | 0.8% | 17.3% | 0.9% | 9.8% | 5.2% | 9.5% | 5.5% | 7.1% | 1.0% | 2.1% | 1.1% | 4.8% | 3.3% | 5.9% | 8.0% | 11.4% | 1.1% | 4.5% | 100.0% |
| Carole Park | 0.3% | 0.2% | 72.6% | 0.2% | 2.6% | 11.1% | 0.8% | 0.2% | 5.8% | 0.1% | 0.3% | 0.5% | 2.1% | 0.7% | 0.2% | 0.2% | 0.8% | 0.0% | 1.0% | 100.0% |
| Bellbird Park - Brookwater | 0.1% | 2.6% | 11.6% | 1.4% | 9.5% | 4.7% | 9.4% | 5.7% | 4.9% | 1.1% | 2.9% | 2.3% | 6.2% | 3.1% | 8.1% | 10.8% | 10.4% | 1.2% | 4.0% | 100.0% |
| Redbank Plains | 0.2% | 0.6% | 16.9% | 1.2% | 9.0% | 4.6% | 13.3% | 5.4% | 7.1% | 0.9% | 2.1% | 1.6% | 3.9% | 3.2% | 5.6% | 9.0% | 10.7% | 0.7% | 3.9% | 100.0% |
| Goodna | 0.2% | 0.3% | 14.8% | 0.9% | 8.2% | 3.8% | 10.0% | 8.6% | 5.8% | 0.9% | 2.6% | 1.9% | 4.8% | 3.5% | 6.7% | 10.7% | 11.7% | 0.8% | 3.9% | 100.0% |
| Collingwood Park - Redbank | 0.4% | 0.6% | 14.0% | 0.6% | 10.5% | 3.0% | 14.6% | 5.4% | 16.6% | 1.2% | 2.2% | 0.8% | 4.4% | 2.6% | 5.5% | 5.6% | 9.0% | 0.5% | 2.8% | 100.0% |
| New Chum | 0.0% | 0.0% | 58.3% | 9.5% | 14.3% | 6.0% | 0.0% | 0.0% | 8.3% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 100.0% |
| Riverview | 1.0% | 0.6% | 50.6% | 0.4% | 3.6% | 6.4% | 3.5% | 1.9% | 2.8% | 0.4% | 0.7% | 0.3% | 2.5% | 2.8% | 6.4% | 5.8% | 8.0% | 0.3% | 2.2% | 100.0% |
| Karalee - Barellan Point | 0.8% | 0.8% | 10.3% | 2.8% | 10.0% | 4.4% | 9.9% | 2.9% | 6.6% | 1.3% | 2.3% | 2.4% | 6.8% | 2.7% | 8.2% | 10.5% | 11.2% | 0.6% | 4.6% | 100.0% |
| Bundamba | 0.4% | 0.4% | 20.8% | 1.3% | 7.3% | 5.9% | 10.1% | 4.0% | 9.0% | 0.9% | 1.4% | 1.1% | 2.9% | 3.0% | 5.5% | 12.1% | 9.1% | 1.2% | 3.8% | 100.0% |
| Ipswich - North | 0.7% | 0.7% | 9.8% | 2.8% | 12.3% | 4.4% | 11.2% | 3.7% | 7.0% | 0.4% | 2.1% | 2.2% | 5.2% | 3.4% | 8.1% | 7.5% | 12.9% | 1.5% | 3.8% | 100.0% |
| North Ipswich - Tivoli | 0.2% | 0.8% | 8.4% | 0.6% | 5.7% | 3.1% | 22.8% | 8.9% | 6.8% | 1.1% | 2.3% | 1.2% | 3.2% | 3.4% | 6.6% | 5.5% | 12.7% | 1.7% | 4.2% | 100.0% |

| | 2011 | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Agriculture, Forestry and Fishing | Mining | Manufacturing | Electricity, Gas, Water and Waste Services | Construction | Wholesale Trade | Retail Trade | Accommodation and Food Services | Transport, Postal and Warehousing | Information Media and Telecommunic | Financial and Insurance Services | Rental, Hiring and Real Estate Services | Professional, Scientific and Technical | Administrative and Support Services | Public Administration and Safety | Education and Training | Health Care and Social Assistance | Arts and Recreation Services | Other Services | Total |
| Ipswich - East | 0.3% | 0.6% | 10.0% | 1.0% | 6.2% | 2.7% | 16.8% | 8.3% | 4.5% | 0.8% | 2.4% | 2.0% | 4.5% | 3.1% | 7.3% | 9.4% | 15.0% | 1.3% | 4.2% | 100.0% |
| Raceview | 0.2% | 1.0% | 11.1% | 3.5% | 7.0% | 3.3% | 11.6% | 6.2% | 6.1% | 0.6% | 2.1% | 1.2% | 3.3% | 2.7% | 11.3% | 7.9% | 15.5% | 0.8% | 4.7% | 100.0% |
| Churchill - Yamanto | 0.5% | 0.6% | 18.0% | 1.1% | 6.3% | 4.1% | 16.5% | 7.1% | 4.0% | 0.3% | 1.6% | 1.8% | 2.9% | 1.9% | 11.3% | 7.4% | 10.0% | 0.7% | 3.8% | 100.0% |
| Leichhardt - One Mile | 3.1% | 0.6% | 24.3% | 1.9% | 8.0% | 3.9% | 8.7% | 4.6% | 5.7% | 0.3% | 1.2% | 1.2% | 2.8% | 2.7% | 7.0% | 9.4% | 10.7% | 0.6% | 3.0% | 100.0% |
| Ipswich - Central | 0.5% | 0.6% | 10.4% | 1.1% | 6.7% | 2.5% | 14.9% | 7.6% | 4.6% | 0.5% | 2.1% | 1.4% | 3.7% | 2.3% | 10.0% | 11.6% | 14.6% | 1.0% | 3.7% | 100.0% |
| Brassall | 0.2% | 1.0% | 11.1% | 3.5% | 7.0% | 3.3% | 11.6% | 6.2% | 6.1% | 0.6% | 2.1% | 1.2% | 3.3% | 2.7% | 11.3% | 7.9% | 15.5% | 0.8% | 4.7% | 100.0% |

Source: ABS Census of Population and Housing (2011 and 2016)

## H.1.6 Industry of Employment – Ipswich SA2s Working Population, 2016

| | 2016 | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Agriculture, Forestry and Fishing | Mining | Manufacturing | Electricity, Gas, Water and Waste Services | Construction | Wholesale Trade | Retail Trade | Accommodation and Food Services | Transport, Postal and Warehousing | Information Media and Telecommunic | Financial and Insurance Services | Rental, Hiring and Real Estate Services | Professional, Scientific and Technical | Administrative and Support Services | Public Administration and Safety | Education and Training | Health Care and Social Assistance | Arts and Recreation Services | Other Services | Total |
| Rosewood | 2.8% | 2.0% | 4.7% | 0.5% | 6.4% | 0.6% | 4.0% | 3.1% | 3.9% | 0.3% | 0.6% | 0.8% | 5.4% | 2.6% | 49.9% | 4.4% | 5.1% | 0.8% | 2.2% | 100.0% |
| Ripley | 1.4% | 0.0% | 8.7% | 12.9% | 38.0% | 1.4% | 2.6% | 1.4% | 3.1% | 0.8% | 1.4% | 2.0% | 2.3% | 4.4% | 7.8% | 4.0% | 6.0% | 0.8% | 2.3% | 100.0% |
| Springfield Lakes | 0.4% | 0.2% | 1.2% | 0.1% | 5.1% | 1.6% | 22.3% | 14.5% | 1.3% | 1.4% | 9.0% | 3.3% | 4.3% | 2.5% | 1.7% | 15.9% | 11.5% | 0.6% | 3.3% | 100.0% |
| Springfield | 0.3% | 0.0% | 1.3% | 0.2% | 7.8% | 0.7% | 15.8% | 9.5% | 1.8% | 1.3% | 3.0% | 3.5% | 2.4% | 2.2% | 1.9% | 27.2% | 15.6% | 1.2% | 4.5% | 100.0% |
| Camira - Gailes | 0.4% | 0.0% | 9.1% | 0.0% | 15.9% | 0.6% | 7.7% | 6.7% | 4.5% | 0.7% | 1.4% | 1.8% | 5.4% | 5.0% | 0.8% | 16.2% | 16.9% | 1.0% | 6.1% | 100.0% |
| Carole Park | 1.8% | 0.7% | 60.7% | 0.4% | 6.3% | 10.9% | 1.4% | 0.8% | 9.5% | 0.0% | 0.2% | 0.9% | 2.8% | 1.4% | 0.5% | 0.1% | 0.6% | 0.0% | 0.7% | 100.0% |
| Bellbird Park - Brookwater | 0.2% | 6.3% | 1.9% | 0.4% | 14.5% | 0.4% | 9.1% | 10.7% | 2.6% | 0.8% | 1.2% | 2.2% | 8.8% | 2.6% | 2.8% | 20.4% | 10.0% | 1.5% | 3.1% | 100.0% |
| Redbank Plains | 0.2% | 0.7% | 3.2% | 0.7% | 16.5% | 1.0% | 12.5% | 4.9% | 3.9% | 0.7% | 1.6% | 1.2% | 3.2% | 3.8% | 1.6% | 25.5% | 15.2% | 0.2% | 3.5% | 100.0% |

| | 2016 | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Agriculture, Forestry and Fishing | Mining | Manufacturing | Electricity, Gas, Water and Waste Services | Construction | Wholesale Trade | Retail Trade | Accommodation and Food Services | Transport, Postal and Warehousing | Information Media and Telecommunic | Financial and Insurance Services | Rental, Hiring and Real Estate Services | Professional, Scientific and Technical | Administrative and Support Services | Public Administration and Safety | Education and Training | Health Care and Social Assistance | Arts and Recreation Services | Other Services | Total |
| Goodna | 0.1% | 0.1% | 6.0% | 0.4% | 3.1% | 0.4% | 11.7% | 13.4% | 2.4% | 0.3% | 1.3% | 3.0% | 3.2% | 3.8% | 7.5% | 21.7% | 16.5% | 0.9% | 4.2% | 100.0% |
| Collingwood Park - Redbank | 0.3% | 0.6% | 6.1% | 0.3% | 5.1% | 1.6% | 19.4% | 6.6% | 29.5% | 2.0% | 1.3% | 0.9% | 2.3% | 2.3% | 3.3% | 8.1% | 7.5% | 0.5% | 2.5% | 100.0% |
| New Chum | 0.0% | 3.1% | 43.3% | 19.7% | 15.7% | 7.9% | 0.0% | 0.0% | 3.9% | 0.0% | 0.0% | 0.0% | 3.9% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 2.4% | 100.0% |
| Riverview | 1.2% | 0.1% | 60.4% | 0.5% | 3.7% | 4.3% | 1.9% | 0.8% | 1.5% | 0.2% | 0.0% | 0.1% | 3.6% | 1.4% | 5.1% | 7.0% | 7.1% | 0.1% | 1.1% | 100.0% |
| Karalee - Barellan Point | 1.9% | 0.0% | 3.1% | 2.2% | 15.0% | 2.1% | 20.6% | 3.4% | 10.2% | 0.6% | 1.0% | 2.4% | 5.3% | 2.4% | 1.6% | 11.0% | 11.0% | 0.6% | 4.3% | 100.0% |
| Bundamba | 0.3% | 0.0% | 23.4% | 1.4% | 7.8% | 8.8% | 16.2% | 2.3% | 10.0% | 0.1% | 0.3% | 1.1% | 1.8% | 2.8% | 0.7% | 12.9% | 4.9% | 1.6% | 3.4% | 100.0% |
| Ipswich - North | 3.2% | 0.8% | 3.9% | 4.2% | 26.4% | 0.8% | 14.6% | 2.2% | 5.5% | 2.2% | 1.8% | 1.0% | 5.5% | 3.2% | 2.9% | 4.4% | 12.9% | 1.3% | 3.9% | 100.0% |
| North Ipswich - Tivoli | 0.3% | 0.2% | 2.6% | 0.4% | 4.1% | 1.6% | 29.9% | 14.4% | 4.1% | 2.9% | 3.9% | 2.1% | 3.0% | 3.1% | 3.0% | 5.0% | 13.2% | 2.4% | 4.6% | 100.0% |
| Ipswich - East | 0.2% | 0.0% | 1.5% | 0.3% | 4.4% | 1.0% | 22.7% | 12.4% | 1.6% | 0.3% | 2.1% | 2.1% | 4.1% | 3.5% | 2.1% | 13.0% | 21.7% | 1.2% | 5.6% | 100.0% |
| Raceview | 0.4% | 0.3% | 3.5% | 9.4% | 9.4% | 0.7% | 10.3% | 9.3% | 3.9% | 0.2% | 1.6% | 1.3% | 2.6% | 3.2% | 2.4% | 11.0% | 22.4% | 1.1% | 6.9% | 100.0% |
| Churchill - Yamanto | 0.1% | 0.2% | 18.9% | 0.0% | 5.1% | 1.9% | 23.3% | 15.0% | 1.0% | 0.2% | 0.7% | 1.3% | 1.6% | 1.6% | 10.2% | 10.0% | 5.6% | 0.5% | 3.0% | 100.0% |
| Leichhardt - One Mile | 8.0% | 0.2% | 37.9% | 3.9% | 8.4% | 3.8% | 3.0% | 1.4% | 4.7% | 0.0% | 0.2% | 1.0% | 2.3% | 3.1% | 0.4% | 14.9% | 4.3% | 0.6% | 1.6% | 100.0% |
| Brassall | 0.4% | 0.3% | 2.0% | 0.2% | 6.5% | 0.4% | 14.8% | 14.0% | 1.6% | 0.6% | 1.2% | 2.0% | 2.7% | 1.8% | 5.2% | 22.9% | 18.3% | 0.7% | 4.7% | 100.0% |

Source: ABS Census of Population and Housing (2011 and 2016)

# Appendix I Supply Chain Capability – Supplementary Tables

### I.1.1 Industries that achieved affirmative results across at least two measures – Ipswich City, 2016

| 1-Digit Industry Sector | 2-Digit Industry Sector | SQ & LQ | SQ & RS | LQ & RS |
|---|---|---|---|---|
| Agriculture, Forestry and Fishing | Agriculture | | ✓ | |
| Manufacturing | Food product manufacturing | ✓ | ✓ | ✓ |
| | Beverage and tobacco product manufacturing | | | ✓ |
| | Wood product manufacturing | | | ✓ |
| | Pulp, paper and converted paper product manufacturing | | | ✓ |
| | Basic chemical and chemical product manufacturing | ✓ | ✓ | ✓ |
| | Primary metal and metal product manufacturing | ✓ | ✓ | ✓ |
| | Fabricated metal product manufacturing | | | ✓ |
| | Machinery and equipment manufacturing | | | ✓ |
| Electricity, Gas, Water and Waste Services | Water supply, sewerage and drainage services | ✓ | ✓ | ✓ |
| | Waste collection, treatment and disposal services | ✓ | ✓ | ✓ |
| Construction | Construction services | | ✓ | |
| Wholesale Trade | Basic material wholesaling | | ✓ | |
| | Machinery and equipment wholesaling | | ✓ | |
| | Motor vehicle and motor vehicle parts wholesaling | ✓ | ✓ | ✓ |
| | Grocery, liquor and tobacco product wholesaling | ✓ | ✓ | ✓ |
| | Other goods wholesaling | | ✓ | |
| Retail Trade | Motor vehicle and motor vehicle parts retailing | | | ✓ |
| | Fuel retailing | | | ✓ |
| | Food retailing | ✓ | ✓ | ✓ |
| | Other store-based retailing | ✓ | ✓ | ✓ |
| Accommodation and Food Services | Food and beverage services | ✓ | ✓ | ✓ |
| Transport, Postal and Warehousing | Transport, postal and warehousing, nfd | | | ✓ |
| | Road transport | ✓ | ✓ | ✓ |
| | Rail transport | ✓ | | |
| Information Media and Telecommunications | Publishing (except internet and music publishing) | | ✓ | |
| | Motion picture and sound recording activities | ✓ | ✓ | ✓ |
| | Internet publishing and broadcasting | | | ✓ |
| | Telecommunications services | | ✓ | |
| Financial and Insurance Services | Finance | ✓ | ✓ | ✓ |
| | Auxiliary finance and insurance services | | ✓ | |
| Rental, Hiring and Real Estate Services | Property operators and real estate services | | ✓ | |
| Professional, Scientific and Technical Services | Professional, scientific and technical services (except computer system design and related services) | | ✓ | |
| | Administrative services | | ✓ | |

| 1-Digit Industry Sector | 2-Digit Industry Sector | SQ & LQ | SQ & RS | LQ & RS |
|---|---|---|---|---|
| Administrative and Support Services | Building cleaning, pest control and other support services | | ✓ | |
| Public Administration and Safety | Public administration | | ✓ | |
| | Defence | ✓ | | |
| Education and Training | Preschool and school education | ✓ | ✓ | ✓ |
| Health Care and Social Assistance | Hospitals | ✓ | ✓ | ✓ |
| | Medical and other health care services | | ✓ | |
| | Residential care services | | | ✓ |
| | Social assistance services | ✓ | ✓ | ✓ |
| Other Services | Repair and maintenance | | ✓ | |
| | Personal and other services | | ✓ | |

Source: ABS Census of Population and Housing (2016) and CDM Smith Analysis (2020)

### I.1.2 Key Upstream and Downstream Sectors – Food Product Manufacturing, Ipswich City

| Target sector | Upstream sector | % of input ($) | Downstream sector | % of output ($) |
|---|---|---|---|---|
| Meat and Meat product Manufacturing | Sheep, Grains, Beef and Dairy Cattle | 46.0% | Food and Beverage Services | 20.6% |
| | Poultry and Other Livestock | 14.0% | Meat and Meat product Manufacturing | 2.9% |
| | Road Transport | 4.7% | Wholesale Trade | 2.8% |
| | Meat and Meat product Manufacturing | 3.2% | Other Food Product Manufacturing | 1.5% |
| | Employment, Travel Agency and Other Administrative Services | 1.8% | Retail Trade | 1.4% |
| | Wholesale Trade | 1.8% | Health Care Services | 1.3% |
| | Professional, Scientific and Technical Services | 0.7% | Accommodation | 1.3% |
| Processed Seafood Manufacturing | Fishing, hunting and trapping | 7.0% | Food and Beverage Services | 4.5% |
| | Aquaculture | 5.6% | Wholesale Trade | 3.7% |
| | Wholesale Trade | 1.5% | Retail Trade | 2.0% |
| | Road Transport | 1.0% | Residential Care and Social Assistance Services | 1.8% |
| | Professional, Scientific and Technical Services | 0.6% | Other Food Product Manufacturing | 1.8% |
| | Building Cleaning, Pest Control and Other Support Services | 0.4% | Health Care Services | 1.6% |
| | Oils and Fats Manufacturing | 0.4% | Accommodation | 1.1% |
| Dairy Product Manufacturing | Sheep, Grains, Beef and Dairy Cattle | 36.5% | Dairy Product Manufacturing | 12.5% |
| | Dairy Product Manufacturing | 13.1% | Food and Beverage Services | 3.7% |
| | Road Transport | 4.3% | Health Care Services | 3.5% |
| | Wholesale Trade | 2.9% | Residential Care and Social Assistance Services | 3.2% |
| | Other Food Product Manufacturing | 1.3% | Other Food Product Manufacturing | 2.2% |
| | Professional, Scientific and Technical Services | 1.2% | Retail Trade | 2.0% |

| Target sector | Upstream sector | % of input ($) | Downstream sector | % of output ($) |
|---|---|---|---|---|
| | Polymer Product Manufacturing | 1.0% | Sugar and Confectionery Manufacturing | 1.2% |
| Fruit and Vegetable Product Manufacturing | Other Agriculture | 12.6% | Food and Beverage Services | 3.7% |
| | Other Food Product Manufacturing | 8.2% | Residential Care and Social Assistance Services | 2.7% |
| | Wholesale Trade | 7.2% | Bakery Product Manufacturing | 1.9% |
| | Road Transport | 3.2% | Health Care Services | 1.8% |
| | Employment, Travel Agency and Other Administrative Services | 1.8% | Fruit and Vegetable Product Manufacturing | 1.5% |
| | Fruit and Vegetable Product Manufacturing | 1.6% | Retail Trade | 0.5% |
| | Grain Mill and Cereal Product Manufacturing | 1.1% | Accommodation | 0.4% |
| Oils and Fats Manufacturing | Sheep, Grains, Beef and Dairy Cattle | 16.9% | Oils and Fats Manufacturing | 15.0% |
| | Oils and Fats Manufacturing | 13.7% | Bakery Product Manufacturing | 8.7% |
| | Wholesale Trade | 4.0% | Other Food Product Manufacturing | 6.4% |
| | Dairy Product Manufacturing | 3.8% | Food and Beverage Services | 3.6% |
| | Road Transport | 3.0% | Fruit and Vegetable Product Manufacturing | 2.0% |
| | Aquaculture | 1.3% | Sugar and Confectionery Manufacturing | 1.4% |
| | Tanned Leather, Dressed Fur and Leather Product Manufacturing | 1.2% | Grain Mill and Cereal Product Manufacturing | 1.3% |
| Grain Mill and Cereal Product Manufacturing | Sheep, Grains, Beef and Dairy Cattle | 33.6% | Bakery Product Manufacturing | 10.3% |
| | Road Transport | 6.2% | Food and Beverage Services | 4.9% |
| | Wholesale Trade | 3.9% | Residential Care and Social Assistance Services | 3.0% |
| | Professional, Scientific and Technical Services | 3.6% | Retail Trade | 2.9% |
| | Other Food Product Manufacturing | 2.7% | Sugar and Confectionery Manufacturing | 2.6% |
| | Transport Support services and storage | 2.3% | Health Care Services | 2.2% |
| | Sugar and Confectionery Manufacturing | 2.1% | Beer Manufacturing | 2.1% |
| Bakery Product Manufacturing | Grain Mill and Cereal Product Manufacturing | 7.5% | Food and Beverage Services | 10.8% |
| | Other Food Product Manufacturing | 6.4% | Residential Care and Social Assistance Services | 2.0% |
| | Sugar and Confectionery Manufacturing | 5.6% | Retail Trade | 1.6% |
| | Meat and Meat product Manufacturing | 4.3% | Technical, Vocational and Tertiary Education Services (incl undergraduate and postgraduate) | 1.2% |
| | Wholesale Trade | 4.3% | Bakery Product Manufacturing | 0.8% |
| | Road Transport | 2.5% | Primary and Secondary Education Services (incl Pre-Schools and Special Schools) | 0.8% |
| | Oils and Fats Manufacturing | 2.2% | Accommodation | 0.8% |
| Sugar and Confectionery Manufacturing | Other Agriculture | 22.5% | Sugar and Confectionery Manufacturing | 12.7% |
| | Sugar and Confectionery Manufacturing | 10.9% | Food and Beverage Services | 10.8% |
| | Wholesale Trade | 3.6% | Bakery Product Manufacturing | 5.4% |

| Target sector | Upstream sector | % of input ($) | Downstream sector | % of output ($) |
|---|---|---|---|---|
| | Professional, Scientific and Technical Services | 2.8% | Other Food Product Manufacturing | 5.1% |
| | Electricity Transmission, Distribution, On Selling and Electricity Market Operation | 2.8% | Soft Drinks, Cordials and Syrup Manufacturing | 3.1% |
| | Electricity Generation | 2.1% | Accommodation | 1.6% |
| | Other Food Product Manufacturing | 1.9% | Grain Mill and Cereal Product Manufacturing | 1.5% |
| Other Food Product Manufacturing | Other Agriculture | 4.8% | Sheep, Grains, Beef and Dairy Cattle | 6.4% |
| | Other Food Product Manufacturing | 4.3% | Food and Beverage Services | 4.8% |
| | Wholesale Trade | 3.8% | Other Food Product Manufacturing | 4.3% |
| | Meat and Meat product Manufacturing | 3.3% | Fruit and Vegetable Product Manufacturing | 4.0% |
| | Sugar and Confectionery Manufacturing | 3.0% | Sports and Recreation | 4.0% |
| | Sheep, Grains, Beef and Dairy Cattle | 2.4% | Bakery Product Manufacturing | 3.7% |
| | Road Transport | 2.4% | Poultry and Other Livestock | 2.5% |

Source: CDM Smith Analysis (2020)

### I.1.3 Key Upstream and Downstream Sectors – Beverage and Tobacco Product Manufacturing , Ipswich City

| Target sector | Upstream sector | % of input ($) | Downstream sector | % of output ($) |
|---|---|---|---|---|
| Soft Drinks, Cordials and Syrup Manufacturing | Food and Beverage Services | 6.1% | Food and Beverage Services | 2.2% |
| | Polymer Product Manufacturing | 4.7% | Soft Drinks, Cordials and Syrup Manufacturing | 2.2% |
| | Sugar and Confectionery Manufacturing | 4.4% | Gambling | 1.2% |
| | Professional, Scientific and Technical Services | 4.3% | Sports and Recreation | 1.0% |
| | Paper Stationery and Other Converted Paper Product Manufacturing | 3.6% | Wine, Spirits and Tobacco | 0.4% |
| | Transport Support services and storage | 3.6% | Insurance and Superannuation Funds | 0.3% |
| | Wholesale Trade | 3.5% | Defence | 0.2% |
| Beer Manufacturing | Sheep, Grains, Beef and Dairy Cattle | 11.3% | Food and Beverage Services | 19.1% |
| | Finance | 5.7% | Accommodation | 4.5% |
| | Beer Manufacturing | 4.0% | Beer Manufacturing | 4.0% |
| | Road Transport | 3.5% | Gambling | 0.8% |
| | Food and Beverage Services | 2.9% | Soft Drinks, Cordials and Syrup Manufacturing | 0.4% |
| | Grain Mill and Cereal Product Manufacturing | 2.4% | Public Administration and Regulatory Services | 0.3% |
| | Transport Support services and storage | 1.8% | Technical, Vocational and Tertiary Education Services (incl undergraduate and postgraduate) | 0.3% |
| Wine, Spirits and Tobacco | Other Agriculture | 17.0% | Food and Beverage Services | 8.7% |
| | Finance | 2.3% | Wine, Spirits and Tobacco | 1.5% |
| | Sheep, Grains, Beef and Dairy Cattle | 2.2% | Accommodation | 1.1% |
| | Food and Beverage Services | 1.5% | Finance | 0.3% |

| Target sector | Upstream sector | % of input ($) | Downstream sector | % of output ($) |
|---|---|---|---|---|
| | Wine, Spirits and Tobacco | 1.5% | Gambling | 0.1% |
| | Professional, Scientific and Technical Services | 1.5% | Public Administration and Regulatory Services | 0.1% |
| | Employment, Travel Agency and Other Administrative Services | 1.2% | Technical, Vocational and Tertiary Education Services (incl undergraduate and postgraduate) | 0.1% |

Source: CDM Smith Analysis (2020)

### I.1.4 Key Upstream and Downstream Sectors – Wood Product Manufacturing , Ipswich City

| Target sector | Upstream sector | % of input ($) | Downstream sector | % of output ($) |
|---|---|---|---|---|
| Sawmill Product Manufacturing | Forestry and Logging | 29.5% | Construction Services | 30.6% |
| | Road Transport | 13.5% | Other Wood Product Manufacturing | 20.9% |
| | Construction Services | 5.1% | Residential Building Construction | 9.7% |
| | Wholesale Trade | 1.9% | Furniture Manufacturing | 8.4% |
| | Sawmill Product Manufacturing | 1.7% | Pulp, Paper and Paperboard Manufacturing | 4.7% |
| | Employment, Travel Agency and Other Administrative Services | 1.0% | Heavy and Civil Engineering Construction | 3.7% |
| | Other Repair and Maintenance | 0.9% | Sawmill Product Manufacturing | 1.6% |
| Sawmill Product Manufacturing | Forestry and Logging | 29.5% | Construction Services | 30.6% |
| | Road Transport | 13.5% | Other Wood Product Manufacturing | 20.9% |
| | Construction Services | 5.1% | Residential Building Construction | 9.7% |
| | Wholesale Trade | 1.9% | Furniture Manufacturing | 8.4% |
| | Sawmill Product Manufacturing | 1.7% | Pulp, Paper and Paperboard Manufacturing | 4.7% |
| | Employment, Travel Agency and Other Administrative Services | 1.0% | Heavy and Civil Engineering Construction | 3.7% |
| | Other Repair and Maintenance | 0.9% | Sawmill Product Manufacturing | 1.6% |

Source: CDM Smith Analysis (2020)

### I.1.5 Key Upstream and Downstream Sectors – Pulp, paper and converted paper product manufacturing, Ipswich City

| Target sector | Upstream sector | % of input ($) | Downstream sector | % of output ($) |
|---|---|---|---|---|
| Pulp, Paper and Paperboard Manufacturing | Sawmill Product Manufacturing | 5.6% | Paper Stationery and Other Converted Paper Product Manufacturing | 15.6% |
| | Pulp, Paper and Paperboard Manufacturing | 2.9% | Publishing (except Internet and Music Publishing) | 15.4% |
| | Internet Service Providers, Internet Publishing and Broadcasting, Websearch Portals and Data Processing | 2.7% | Printing (including the reproduction of recorded media) | 13.4% |
| | Basic Chemical Manufacturing | 2.6% | Wholesale Trade | 7.3% |
| | Wholesale Trade | 2.3% | Pulp, Paper and Paperboard Manufacturing | 3.2% |
| | Structural Metal Product Manufacturing | 2.2% | Public Administration and Regulatory Services | 2.4% |
| | Non-Residential Property Operators and Real Estate Services | 2.2% | Retail Trade | 2.1% |

| Target sector | Upstream sector | % of input ($) | Downstream sector | % of output ($) |
|---|---|---|---|---|
| Paper Stationery and Other Converted Paper Product Manufacturing | Professional, Scientific and Technical Services | 9.5% | Wholesale Trade | 8.3% |
| | Pulp, Paper and Paperboard Manufacturing | 7.8% | Retail Trade | 6.5% |
| | Transport Support services and storage | 6.6% | Residential Building Construction | 4.1% |
| | Polymer Product Manufacturing | 3.1% | Soft Drinks, Cordials and Syrup Manufacturing | 2.9% |
| | Wholesale Trade | 2.7% | Human Pharmaceutical and Medicinal Product Manufacturing | 2.7% |
| | Basic Chemical Manufacturing | 2.6% | Paper Stationery and Other Converted Paper Product Manufacturing | 2.6% |
| | Paper Stationery and Other Converted Paper Product Manufacturing | 2.3% | Meat and Meat product Manufacturing | 2.2% |

Source: CDM Smith Analysis (2020)

### I.1.6 Key Upstream and Downstream Sectors – Basic Chemical Manufacturing, Ipswich City

| Target sector | Upstream sector | % of input ($) | Downstream sector | % of output ($) |
|---|---|---|---|---|
| Basic Chemical Manufacturing | Basic Chemical Manufacturing | 6.1% | Polymer Product Manufacturing | 10.0% |
| | Oil and gas extraction | 5.5% | Construction Services | 9.2% |
| | Non Ferrous Metal Ore Mining | 2.0% | Sheep, Grains, Beef and Dairy Cattle | 6.6% |
| | Petroleum and Coal Product Manufacturing | 1.7% | Basic Chemical Manufacturing | 5.4% |
| | Gas Supply | 1.7% | Human Pharmaceutical and Medicinal Product Manufacturing | 3.8% |
| | Water, Pipeline and Other Transport | 1.5% | Non-Residential Building Construction | 3.3% |
| | Wholesale Trade | 1.5% | Petroleum and Coal Product Manufacturing | 2.4% |

Source: CDM Smith Analysis (2020)

### I.1.7 Key Upstream and Downstream Sectors – Primary metal and metal product manufacturing, Ipswich City

| Target sector | Upstream sector | % of input ($) | Downstream sector | % of output ($) |
|---|---|---|---|---|
| Meat and Meat product Manufacturing | Sheep, Grains, Beef and Dairy Cattle | 46.0% | Food and Beverage Services | 20.6% |
| | Poultry and Other Livestock | 14.0% | Meat and Meat product Manufacturing | 2.9% |
| | Road Transport | 4.7% | Wholesale Trade | 2.8% |
| | Meat and Meat product Manufacturing | 3.2% | Other Food Product Manufacturing | 1.5% |
| | Employment, Travel Agency and Other Administrative Services | 1.8% | Retail Trade | 1.4% |
| | Wholesale Trade | 1.8% | Health Care Services | 1.3% |
| | Professional, Scientific and Technical Services | 0.7% | Accommodation | 1.3% |
| Processed Seafood Manufacturing | Fishing, hunting and trapping | 7.0% | Food and Beverage Services | 4.5% |
| | Aquaculture | 5.6% | Wholesale Trade | 3.7% |
| | Wholesale Trade | 1.5% | Retail Trade | 2.0% |

| Target sector | Upstream sector | % of input ($) | Downstream sector | % of output ($) |
|---|---|---|---|---|
| | Road Transport | 1.0% | Residential Care and Social Assistance Services | 1.8% |
| | Professional, Scientific and Technical Services | 0.6% | Other Food Product Manufacturing | 1.8% |
| | Building Cleaning, Pest Control and Other Support Services | 0.4% | Health Care Services | 1.6% |
| | Oils and Fats Manufacturing | 0.4% | Accommodation | 1.1% |
| Dairy Product Manufacturing | Sheep, Grains, Beef and Dairy Cattle | 36.5% | Dairy Product Manufacturing | 12.5% |
| | Dairy Product Manufacturing | 13.1% | Food and Beverage Services | 3.7% |
| | Road Transport | 4.3% | Health Care Services | 3.5% |
| | Wholesale Trade | 2.9% | Residential Care and Social Assistance Services | 3.2% |
| | Other Food Product Manufacturing | 1.3% | Other Food Product Manufacturing | 2.2% |
| | Professional, Scientific and Technical Services | 1.2% | Retail Trade | 2.0% |
| | Polymer Product Manufacturing | 1.0% | Sugar and Confectionery Manufacturing | 1.2% |
| Fruit and Vegetable Product Manufacturing | Other Agriculture | 12.6% | Food and Beverage Services | 3.7% |
| | Other Food Product Manufacturing | 8.2% | Residential Care and Social Assistance Services | 2.7% |
| | Wholesale Trade | 7.2% | Bakery Product Manufacturing | 1.9% |
| | Road Transport | 3.2% | Health Care Services | 1.8% |
| | Employment, Travel Agency and Other Administrative Services | 1.8% | Fruit and Vegetable Product Manufacturing | 1.5% |
| | Fruit and Vegetable Product Manufacturing | 1.6% | Retail Trade | 0.5% |
| | Grain Mill and Cereal Product Manufacturing | 1.1% | Accommodation | 0.4% |

Source: CDM Smith Analysis (2020)

### I.1.8 Key Upstream and Downstream Sectors – Fabricated metal product manufacturing, Ipswich City

| Target sector | Upstream sector | % of input ($) | Downstream sector | % of output ($) |
|---|---|---|---|---|
| Metal Containers and Other Sheet Metal Product manufacturing | Iron and Steel Manufacturing | 7.5% | Residential Building Construction | 10.2% |
| | Basic Non-Ferrous Metal Manufacturing | 6.5% | Construction Services | 5.7% |
| | Transport Support services and storage | 5.1% | Soft Drinks, Cordials and Syrup Manufacturing | 3.7% |
| | Other Fabricated Metal Product manufacturing | 2.7% | Non-Residential Building Construction | 3.0% |
| | Professional, Scientific and Technical Services | 2.5% | Motor Vehicles and Parts Other Transport Equipment manufacturing | 2.7% |
| | Wholesale Trade | 1.7% | Specialised and other Machinery and Equipment Manufacturing | 2.7% |
| | Non-Residential Property Operators and Real Estate Services | 1.4% | Heavy and Civil Engineering Construction | 2.4% |
| | Iron and Steel Manufacturing | 7.6% | Construction Services | 13.3% |

| Target sector | Upstream sector | % of input ($) | Downstream sector | % of output ($) |
|---|---|---|---|---|
| Other Fabricated Metal Product manufacturing | Basic Non-Ferrous Metal Manufacturing | 5.7% | Residential Building Construction | 8.8% |
| | Professional, Scientific and Technical Services | 3.3% | Defence | 4.3% |
| | Wholesale Trade | 2.7% | Heavy and Civil Engineering Construction | 4.2% |
| | Other Fabricated Metal Product manufacturing | 1.7% | Structural Metal Product Manufacturing | 4.2% |
| | Transport Support services and storage | 1.3% | Water Supply, Sewerage and Drainage Services | 2.9% |
| | Specialised and other Machinery and Equipment Manufacturing | 1.2% | Coal mining | 2.6% |

Source: CDM Smith Analysis (2020)

### I.1.9 Key Upstream and Downstream Sectors – Machinery and equipment manufacturing, Ipswich City

| Target sector | Upstream sector | % of input ($) | Downstream sector | % of output ($) |
|---|---|---|---|---|
| Machinery and equipment manufacturing | Professional, Scientific and Technical Services | 3.8% | Non Ferrous Metal Ore Mining | 5.3% |
| | Wholesale Trade | 3.1% | Coal mining | 3.1% |
| | Specialised and other Machinery and Equipment Manufacturing | 2.7% | Other Repair and Maintenance | 3.1% |
| | Professional, Scientific, Computer and Electronic Equipment Manufacturing | 1.8% | Specialised and other Machinery and Equipment Manufacturing | 2.9% |
| | Iron and Steel Manufacturing | 1.6% | Automotive Repair and Maintenance | 1.8% |
| | Electrical Equipment Manufacturing | 1.3% | Construction Services | 1.5% |
| | Basic Non-Ferrous Metal Manufacturing | 0.7% | Oil and gas extraction | 1.2% |

Source: CDM Smith Analysis (2020)

### I.1.10 Key Upstream and Downstream Sectors – Water supply, sewerage and drainage services, Ipswich City

| Target sector | Upstream sector | % of input ($) | Downstream sector | % of output ($) |
|---|---|---|---|---|
| Water supply, sewerage and drainage services | Finance | 7.7% | Professional, Scientific and Technical Services | 5.4% |
| | Construction Services | 5.0% | Non-Residential Property Operators and Real Estate Services | 4.0% |
| | Auxiliary Finance and Insurance Services | 4.5% | Residential Building Construction | 3.7% |
| | Professional, Scientific and Technical Services | 3.4% | Sheep, Grains, Beef and Dairy Cattle | 3.3% |
| | Water Supply, Sewerage and Drainage Services | 3.0% | Water Supply, Sewerage and Drainage Services | 3.2% |
| | Basic Chemical Manufacturing | 1.9% | Construction Services | 2.7% |
| | Electricity Transmission, Distribution, On Selling and Electricity Market Operation | 1.4% | Other Agriculture | 2.3% |

Source: CDM Smith Analysis (2020)

### I.1.11 Key Upstream and Downstream Sectors – Waste collection, treatment and disposal services, Ipswich City

| Target sector | Upstream sector | % of input ($) | Downstream sector | % of output ($) |
|---|---|---|---|---|
| Waste collection, treatment and disposal services | Professional, Scientific and Technical Services | 20.8% | Telecommunication Services | 8.3% |
| | Auxiliary Finance and Insurance Services | 17.3% | Health Care Services | 8.2% |
| | Waste Collection, Treatment and Disposal Services | 7.7% | Waste Collection, Treatment and Disposal Services | 7.5% |
| | Non-Residential Property Operators and Real Estate Services | 2.7% | Professional, Scientific and Technical Services | 7.3% |
| | Automotive Repair and Maintenance | 2.3% | Construction Services | 6.2% |
| | Employment, Travel Agency and Other Administrative Services | 1.9% | Computer Systems Design and Related Services | 5.6% |
| | Wholesale Trade | 1.4% | Employment, Travel Agency and Other Administrative Services | 4.7% |

Source: CDM Smith Analysis (2020)

### I.1.12 Key Upstream and Downstream Sectors – Construction services, Ipswich City

| Target sector | Upstream sector | % of input ($) | Downstream sector | % of output ($) |
|---|---|---|---|---|
| Construction services | Construction Services | 28.6% | Construction Services | 35.1% |
| | Professional, Scientific and Technical Services | 2.9% | Residential Building Construction | 17.4% |
| | Wholesale Trade | 2.8% | Non-Residential Building Construction | 11.9% |
| | Non-Residential Property Operators and Real Estate Services | 2.2% | Heavy and Civil Engineering Construction | 9.0% |
| | Polymer Product Manufacturing | 2.1% | Ownership of Dwellings | 7.4% |
| | Iron and Steel Manufacturing | 1.7% | Defence | 2.2% |
| | Structural Metal Product Manufacturing | 1.6% | Public Administration and Regulatory Services | 2.2% |

Source: CDM Smith Analysis (2020)

### I.1.13 Key Upstream and Downstream Sectors – Wholesale Trade, Ipswich City

| Target sector | Upstream sector | % of input ($) | Downstream sector | % of output ($) |
|---|---|---|---|---|
| Wholesale Trade | Non-Residential Property Operators and Real Estate Services | 9.0% | Construction Services | 5.0% |
| | Professional, Scientific and Technical Services | 5.6% | Health Care Services | 3.3% |
| | Transport Support services and storage | 5.2% | Residential Building Construction | 2.6% |
| | Wholesale Trade | 2.1% | Wholesale Trade | 2.3% |
| | Construction Services | 2.0% | Food and Beverage Services | 2.0% |
| | Employment, Travel Agency and Other Administrative Services | 1.6% | Retail Trade | 1.5% |
| | Finance | 1.6% | Automotive Repair and Maintenance | 1.3% |

Source: CDM Smith Analysis (2020)

### I.1.14 Key Upstream and Downstream Sectors – Retail Trade, Ipswich City

| Target sector | Upstream sector | % of input ($) | Downstream sector | % of output ($) |
|---|---|---|---|---|
| Retail Trade | Non-Residential Property Operators and Real Estate Services | 8.0% | Retail Trade | 1.6% |
| | Professional, Scientific and Technical Services | 6.1% | Wholesale Trade | 1.2% |
| | Internet Service Providers, Internet Publishing and Broadcasting, Websearch Portals and Data Processing | 1.8% | Construction Services | 0.7% |
| | Employment, Travel Agency and Other Administrative Services | 1.6% | Health Care Services | 0.5% |
| | Wholesale Trade | 1.5% | Residential Care and Social Assistance Services | 0.4% |
| | Sheep, Grains, Beef and Dairy Cattle | 1.3% | Finance | 0.2% |
| | Telecommunication Services | 1.2% | Residential Building Construction | 0.2% |

Source: CDM Smith Analysis (2020)

### I.1.15 Key Upstream and Downstream Sectors –Food and beverage services, Ipswich City

| Target sector | Upstream sector | % of input ($) | Downstream sector | % of output ($) |
|---|---|---|---|---|
| Food and beverage services | Meat and Meat product Manufacturing | 9.2% | Professional, Scientific and Technical Services | 2.9% |
| | Non-Residential Property Operators and Real Estate Services | 8.4% | Construction Services | 1.7% |
| | Employment, Travel Agency and Other Administrative Services | 3.4% | Employment, Travel Agency and Other Administrative Services | 1.4% |
| | Wholesale Trade | 3.4% | Wholesale Trade | 0.6% |
| | Beer Manufacturing | 1.4% | Telecommunication Services | 0.6% |
| | Bakery Product Manufacturing | 1.3% | Public Administration and Regulatory Services | 0.5% |
| | Sugar and Confectionery Manufacturing | 1.3% | Finance | 0.5% |

Source: CDM Smith Analysis (2020)

### I.1.16 Key Upstream and Downstream Sectors – Transport, postal and warehousing, Ipswich City

| Target sector | Upstream sector | % of input ($) | Downstream sector | % of output ($) |
|---|---|---|---|---|
| Postal and Courier Pick-up and Delivery Service | Non-Residential Property Operators and Real Estate Services | 7.6% | Auxiliary Finance and Insurance Services | 11.0% |
| | Postal and Courier Pick-up and Delivery Service | 4.5% | Professional, Scientific and Technical Services | 11.0% |
| | Road Transport | 4.3% | Postal and Courier Pick-up and Delivery Service | 7.6% |
| | Other Repair and Maintenance | 3.2% | Road Transport | 6.4% |
| | Professional, Scientific, Computer and Electronic Equipment Manufacturing | 2.9% | Health Care Services | 6.1% |
| | Professional, Scientific and Technical Services | 2.5% | Retail Trade | 5.5% |
| | Petroleum and Coal Product Manufacturing | 2.5% | Wholesale Trade | 5.1% |

| Target sector | Upstream sector | % of input ($) | Downstream sector | % of output ($) |
|---|---|---|---|---|
| Transport Support services and storage | Transport Support services and storage | 7.9% | Wholesale Trade | 13.9% |
| | Employment, Travel Agency and Other Administrative Services | 5.7% | Transport Support services and storage | 9.3% |
| | Professional, Scientific and Technical Services | 4.1% | Air and Space Transport | 5.4% |
| | Building Cleaning, Pest Control and Other Support Services | 3.7% | Professional, Scientific and Technical Services | 2.7% |
| | Heavy and Civil Engineering Construction | 3.2% | Road Transport | 2.4% |
| | Finance | 3.0% | Telecommunication Services | 2.1% |
| | Non-Residential Property Operators and Real Estate Services | 2.9% | Sheep, Grains, Beef and Dairy Cattle | 2.1% |

Source: CDM Smith Analysis (2020)

### I.1.17 Key Upstream and Downstream Sectors – Road Transport, Ipswich City

| Target sector | Upstream sector | % of input ($) | Downstream sector | % of output ($) |
|---|---|---|---|---|
| Road transport | Automotive Repair and Maintenance | 8.3% | Construction Services | 5.1% |
| | Professional, Scientific and Technical Services | 6.8% | Road Transport | 3.8% |
| | Petroleum and Coal Product Manufacturing | 6.8% | Wholesale Trade | 2.8% |
| | Road Transport | 3.9% | Meat and Meat product Manufacturing | 2.4% |
| | Public Administration and Regulatory Services | 2.9% | Retail Trade | 2.3% |
| | Non-Residential Property Operators and Real Estate Services | 2.5% | Residential Building Construction | 2.0% |
| | Wholesale Trade | 2.5% | Sheep, Grains, Beef and Dairy Cattle | 1.8% |

Source: CDM Smith Analysis (2020)

### I.1.18 Key Upstream and Downstream Sectors – Rail Transport, Ipswich City

| Target sector | Upstream sector | % of input ($) | Downstream sector | % of output ($) |
|---|---|---|---|---|
| Rail transport | Construction Services | 9.6% | Coal mining | 5.3% |
| | Railway Rolling Stock Manufacturing | 5.8% | Wholesale Trade | 4.2% |
| | Non-Residential Property Operators and Real Estate Services | 4.8% | Road Transport | 3.0% |
| | Transport Support services and storage | 3.9% | Basic Non-Ferrous Metal Manufacturing | 2.0% |
| | Petroleum and Coal Product Manufacturing | 3.1% | Rail Transport | 1.9% |
| | Heavy and Civil Engineering Construction | 3.0% | Transport Support services and storage | 1.7% |
| | Structural Metal Product Manufacturing | 2.1% | Iron Ore Mining | 1.4% |

Source: CDM Smith Analysis (2020)

### I.1.19 Key Upstream and Downstream Sectors – Publishing (except internet and music publishing), Ipswich City

| Target sector | Upstream sector | % of input ($) | Downstream sector | % of output ($) |
|---|---|---|---|---|
| Publishing (except internet and music publishing) | Printing (including the reproduction of recorded media) | 4.2% | Computer Systems Design and Related Services | 8.8% |
| | Professional, Scientific and Technical Services | 3.9% | Technical, Vocational and Tertiary Education Services (incl undergraduate and postgraduate) | 4.8% |
| | Pulp, Paper and Paperboard Manufacturing | 3.9% | Primary and Secondary Education Services (incl Pre-Schools and Special Schools) | 4.3% |
| | Publishing (except Internet and Music Publishing) | 2.0% | Retail Trade | 3.5% |
| | Internet Service Providers, Internet Publishing and Broadcasting, Websearch Portals and Data Processing | 1.9% | Professional, Scientific and Technical Services | 3.4% |
| | Employment, Travel Agency and Other Administrative Services | 1.4% | Wholesale Trade | 2.7% |
| | Computer Systems Design and Related Services | 1.2% | Employment, Travel Agency and Other Administrative Services | 1.8% |

Source: CDM Smith Analysis (2020)

### I.1.20 Key Upstream and Downstream Sectors – Motion picture and sound recording activities, Ipswich City

| Target sector | Upstream sector | % of input ($) | Downstream sector | % of output ($) |
|---|---|---|---|---|
| Motion picture and sound recording activities | Motion Picture and Sound Recording | 22.2% | Broadcasting (except Internet) | 27.9% |
| | Professional, Scientific and Technical Services | 4.0% | Motion Picture and Sound Recording | 22.6% |
| | Printing (including the reproduction of recorded media) | 3.2% | Professional, Scientific and Technical Services | 3.6% |
| | Employment, Travel Agency and Other Administrative Services | 2.5% | Employment, Travel Agency and Other Administrative Services | 2.4% |
| | Non-Residential Property Operators and Real Estate Services | 1.8% | Telecommunication Services | 2.3% |
| | Professional, Scientific, Computer and Electronic Equipment Manufacturing | 1.5% | Heritage, Creative and Performing Arts | 1.2% |
| | Heritage, Creative and Performing Arts | 1.4% | Gambling | 1.0% |

Source: CDM Smith Analysis (2020)

### I.1.21 Key Upstream and Downstream Sectors – Internet publishing and broadcasting, Ipswich City

| Target sector | Upstream sector | % of input ($) | Downstream sector | % of output ($) |
|---|---|---|---|---|
| Internet publishing and broadcasting | Telecommunication Services | 17.1% | Retail Trade | 8.7% |
| | Internet Service Providers, Internet Publishing and Broadcasting, Websearch Portals and Data Processing | 12.0% | Auxiliary Finance and Insurance Services | 6.1% |
| | Rental and Hiring Services (except Real Estate) | 7.6% | Professional, Scientific and Technical Services | 5.5% |

| Target sector | Upstream sector | % of input ($) | Downstream sector | % of output ($) |
|---|---|---|---|---|
| | Professional, Scientific and Technical Services | 2.9% | Internet Service Providers, Internet Publishing and Broadcasting, Websearch Portals and Data Processing | 5.4% |
| | Publishing (except Internet and Music Publishing) | 2.5% | Wholesale Trade | 5.1% |
| | Other Repair and Maintenance | 2.5% | Finance | 4.9% |
| | Professional, Scientific, Computer and Electronic Equipment Manufacturing | 2.4% | Motor Vehicles and Parts; Other Transport Equipment manufacturing | 3.6% |

Source: CDM Smith Analysis (2020)

### I.1.22 Key Upstream and Downstream Sectors – Telecommunications services, Ipswich City

| Target sector | Upstream sector | % of input ($) | Downstream sector | % of output ($) |
|---|---|---|---|---|
| Telecommunications services | Telecommunication Services | 16.4% | Telecommunication Services | 21.5% |
| | Professional, Scientific and Technical Services | 7.2% | Internet Service Providers, Internet Publishing and Broadcasting, Websearch Portals and Data Processing | 4.4% |
| | Non-Residential Property Operators and Real Estate Services | 6.5% | Wholesale Trade | 3.6% |
| | Computer Systems Design and Related Services | 5.9% | Retail Trade | 3.4% |
| | Other Repair and Maintenance | 2.8% | Professional, Scientific and Technical Services | 2.1% |
| | Professional, Scientific, Computer and Electronic Equipment Manufacturing | 2.0% | Public Administration and Regulatory Services | 2.0% |
| | Waste Collection, Treatment and Disposal Services | 1.9% | Health Care Services | 1.8% |

Source: CDM Smith Analysis (2020)

### I.1.23 Key Upstream and Downstream Sectors – Finance, Ipswich City

| Target sector | Upstream sector | % of input ($) | Downstream sector | % of output ($) |
|---|---|---|---|---|
| Finance | Finance | 6.8% | Ownership of Dwellings | 19.5% |
| | Computer Systems Design and Related Services | 4.1% | Finance | 7.1% |
| | Employment, Travel Agency and Other Administrative Services | 1.8% | Insurance and Superannuation Funds | 6.8% |
| | Insurance and Superannuation Funds | 1.0% | Non-Residential Property Operators and Real Estate Services | 4.4% |
| | Internet Service Providers, Internet Publishing and Broadcasting, Websearch Portals and Data Processing | 1.0% | Professional, Scientific and Technical Services | 2.6% |
| | Auxiliary Finance and Insurance Services | 0.7% | Oil and gas extraction | 1.8% |
| | Professional, Scientific and Technical Services | 0.5% | Wholesale Trade | 1.7% |

Source: CDM Smith Analysis (2020)

### I.1.24 Key Upstream and Downstream Sectors – Auxiliary finance and insurance services, Ipswich City

| Target sector | Upstream sector | % of input ($) | Downstream sector | % of output ($) |
|---|---|---|---|---|
| Auxiliary finance and insurance services | Professional, Scientific and Technical Services | 16.4% | Insurance and Superannuation Funds | 13.3% |
| | Employment, Travel Agency and Other Administrative Services | 4.5% | Public Administration and Regulatory Services | 7.6% |
| | Computer Systems Design and Related Services | 4.3% | Non-Residential Property Operators and Real Estate Services | 7.2% |
| | Internet Service Providers, Internet Publishing and Broadcasting, Websearch Portals and Data Processing | 3.0% | Construction Services | 5.4% |
| | Non-Residential Property Operators and Real Estate Services | 3.0% | Professional, Scientific and Technical Services | 4.8% |
| | Finance | 2.6% | Waste Collection, Treatment and Disposal Services | 4.0% |
| | Auxiliary Finance and Insurance Services | 2.2% | Health Care Services | 3.0% |

Source: CDM Smith Analysis (2020)

### I.1.25 Key Upstream and Downstream Sectors – Property operators and real estate services, Ipswich City

| Target sector | Upstream sector | % of input ($) | Downstream sector | % of output ($) |
|---|---|---|---|---|
| Non-Residential Property Operators and Real Estate Services | Non-Residential Property Operators and Real Estate Services | 9.3% | Wholesale Trade | 11.8% |
| | Professional, Scientific and Technical Services | 8.5% | Retail Trade | 9.8% |
| | Finance | 6.7% | Non-Residential Property Operators and Real Estate Services | 7.5% |
| | Auxiliary Finance and Insurance Services | 5.0% | Professional, Scientific and Technical Services | 7.2% |
| | Building Cleaning, Pest Control and Other Support Services | 3.6% | Food and Beverage Services | 6.0% |
| | Construction Services | 3.5% | Rental and Hiring Services (except Real Estate) | 5.1% |
| | Employment, Travel Agency and Other Administrative Services | 1.6% | Construction Services | 4.8% |
| Rental and Hiring Services (except Real Estate) | Non-Residential Property Operators and Real Estate Services | 21.7% | Construction Services | 9.1% |
| | Professional, Scientific and Technical Services | 5.0% | Professional, Scientific and Technical Services | 6.9% |
| | Employment, Travel Agency and Other Administrative Services | 4.7% | Heavy and Civil Engineering Construction | 4.4% |
| | Finance | 3.2% | Oil and gas extraction | 4.2% |
| | Auxiliary Finance and Insurance Services | 2.4% | Computer Systems Design and Related Services | 4.0% |
| | Rental and Hiring Services (except Real Estate) | 2.0% | Other Repair and Maintenance | 3.8% |

| Target sector | Upstream sector | % of input ($) | Downstream sector | % of output ($) |
|---|---|---|---|---|
| | Electricity Transmission, Distribution, On Selling and Electricity Market Operation | 1.8% | Wholesale Trade | 3.3% |

Source: CDM Smith Analysis (2020)

### I.1.26 Key Upstream and Downstream Sectors – Professional, scientific and technical services, Ipswich City

| Target sector | Upstream sector | % of input ($) | Downstream sector | % of output ($) |
|---|---|---|---|---|
| Professional, scientific and technical services (except computer system design and related services) | Professional, Scientific and Technical Services | 18.8% | Professional, Scientific and Technical Services | 15.8% |
| | Employment, Travel Agency and Other Administrative Services | 4.9% | Auxiliary Finance and Insurance Services | 4.1% |
| | Non-Residential Property Operators and Real Estate Services | 4.2% | Heavy and Civil Engineering Construction | 3.9% |
| | Finance | 1.8% | Retail Trade | 3.6% |
| | Computer Systems Design and Related Services | 1.7% | Wholesale Trade | 3.6% |
| | Auxiliary Finance and Insurance Services | 1.6% | Non-Residential Property Operators and Real Estate Services | 3.3% |
| | Rental and Hiring Services (except Real Estate) | 1.4% | Construction Services | 3.0% |

Source: CDM Smith Analysis (2020)

### I.1.27 Key Upstream and Downstream Sectors – Administrative services, Ipswich City

| Target sector | Upstream sector | % of input ($) | Downstream sector | % of output ($) |
|---|---|---|---|---|
| Administrative services | Professional, Scientific and Technical Services | 8.1% | Professional, Scientific and Technical Services | 10.7% |
| | Non-Residential Property Operators and Real Estate Services | 5.1% | Insurance and Superannuation Funds | 5.1% |
| | Employment, Travel Agency and Other Administrative Services | 4.9% | Employment, Travel Agency and Other Administrative Services | 4.6% |
| | Computer Systems Design and Related Services | 2.0% | Transport Support services and storage | 4.2% |
| | Rental and Hiring Services (except Real Estate) | 1.5% | Health Care Services | 3.9% |
| | Food and Beverage Services | 1.4% | Construction Services | 3.6% |
| | Auxiliary Finance and Insurance Services | 1.3% | Air and Space Transport | 3.4% |

Source: CDM Smith Analysis (2020)

### I.1.28 Key Upstream and Downstream Sectors – Building cleaning, pest control and other support services, Ipswich City

| Target sector | Upstream sector | % of input ($) | Downstream sector | % of output ($) |
|---|---|---|---|---|
| Building cleaning, pest control and | Non-Residential Property Operators and Real Estate Services | 10.3% | Non-Residential Property Operators and Real Estate Services | 13.7% |

| Target sector | Upstream sector | % of input ($) | Downstream sector | % of output ($) |
|---|---|---|---|---|
| other support services | Professional, Scientific and Technical Services | 6.0% | Transport Support services and storage | 10.2% |
| | Employment, Travel Agency and Other Administrative Services | 5.7% | Wholesale Trade | 7.6% |
| | Other Repair and Maintenance | 3.2% | Health Care Services | 5.4% |
| | Rental and Hiring Services (except Real Estate) | 3.1% | Construction Services | 5.4% |
| | Building Cleaning, Pest Control and Other Support Services | 2.9% | Professional, Scientific and Technical Services | 4.8% |
| | Auxiliary Finance and Insurance Services | 1.6% | Residential Care and Social Assistance Services | 2.9% |

Source: CDM Smith Analysis (2020)

### I.1.29 Key Upstream and Downstream Sectors – Public administration, Ipswich City

| Target sector | Upstream sector | % of input ($) | Downstream sector | % of output ($) |
|---|---|---|---|---|
| Public administration | Auxiliary Finance and Insurance Services | 5.0% | Public Administration and Regulatory Services | 4.1% |
| | Construction Services | 4.4% | Road Transport | 1.9% |
| | Professional, Scientific and Technical Services | 4.4% | Professional, Scientific and Technical Services | 1.8% |
| | Public Administration and Regulatory Services | 4.0% | Broadcasting (except Internet) | 1.0% |
| | Computer Systems Design and Related Services | 2.8% | Transport Support services and storage | 0.9% |
| | Electricity Transmission, Distribution, On Selling and Electricity Market Operation | 2.0% | Residential Building Construction | 0.9% |
| | Electricity Generation | 1.4% | Primary and Secondary Education Services (incl Pre-Schools and Special Schools) | 0.6% |

Source: CDM Smith Analysis (2020)

### I.1.30 Key Upstream and Downstream Sectors – Defence, Ipswich City

| Target sector | Upstream sector | % of input ($) | Downstream sector | % of output ($) |
|---|---|---|---|---|
| Defence | Construction Services | 12.8% | Sheep, Grains, Beef and Dairy Cattle | 0.0% |
| | Heavy and Civil Engineering Construction | 2.6% | - | - |
| | Computer Systems Design and Related Services | 1.8% | - | - |
| | Professional, Scientific and Technical Services | 1.7% | - | - |
| | Wholesale Trade | 1.5% | - | - |
| | Other Fabricated Metal Product manufacturing | 1.4% | - | - |
| | Petroleum and Coal Product Manufacturing | 1.2% | - | - |

Source: CDM Smith Analysis (2020)

### I.1.31 Key Upstream and Downstream Sectors – Preschool and school education, Ipswich City

| Target sector | Upstream sector | % of input ($) | Downstream sector | % of output ($) |
|---|---|---|---|---|
| Preschool and school education | Employment, Travel Agency and Other Administrative Services | 2.1% | Sheep, Grains, Beef and Dairy Cattle | 0.0% |
| | Non-Residential Property Operators and Real Estate Services | 2.0% | - | - |
| | Professional, Scientific and Technical Services | 1.7% | - | - |
| | Computer Systems Design and Related Services | 1.5% | - | - |
| | Publishing (except Internet and Music Publishing) | 1.3% | - | - |
| | Wholesale Trade | 1.3% | - | - |
| | Auxiliary Finance and Insurance Services | 1.2% | - | - |

Source: CDM Smith Analysis (2020)

### I.1.32 Key Upstream and Downstream Sectors – Health Care and Social Assistance, Ipswich City

| Target sector | Upstream sector | % of input ($) | Downstream sector | % of output ($) |
|---|---|---|---|---|
| Health Care Services | Professional, Scientific, Computer and Electronic Equipment Manufacturing | 4.1% | Insurance and Superannuation Funds | 2.1% |
| | Wholesale Trade | 3.9% | Health Care Services | 0.8% |
| | Professional, Scientific and Technical Services | 3.4% | Residential Care and Social Assistance Services | 0.1% |
| | Employment, Travel Agency and Other Administrative Services | 3.1% | Basic Chemical Manufacturing | 0.1% |
| | Auxiliary Finance and Insurance Services | 1.7% | Technical, Vocational and Tertiary Education Services (incl undergraduate and postgraduate) | 0.1% |
| | Non-Residential Property Operators and Real Estate Services | 1.4% | Defence | 0.1% |
| | Building Cleaning, Pest Control and Other Support Services | 1.1% | Public Administration and Regulatory Services | 0.1% |
| Residential Care and Social Assistance Services | Employment, Travel Agency and Other Administrative Services | 1.9% | Health Care Services | 1.2% |
| | Wholesale Trade | 1.7% | Residential Care and Social Assistance Services | 0.0% |
| | Professional, Scientific and Technical Services | 1.4% | Professional, Scientific and Technical Services | 0.0% |
| | Non-Residential Property Operators and Real Estate Services | 1.0% | Sheep, Grains, Beef and Dairy Cattle | 0.0% |
| | Building Cleaning, Pest Control and Other Support Services | 1.0% | - | - |
| | Dairy Product Manufacturing | 0.8% | - | - |
| | Retail Trade | 0.7% | - | - |

Source: CDM Smith Analysis (2020)

### I.1.33 Key Upstream and Downstream Sectors – Repair and Maintenance, Ipswich City

| Target sector | Upstream sector | % of input ($) | Downstream sector | % of output ($) |
|---|---|---|---|---|
| Automotive Repair and Maintenance | Motor Vehicles and Parts; Other Transport Equipment manufacturing | 18.7% | Road Transport | 16.6% |
| | Wholesale Trade | 9.0% | Construction Services | 4.6% |
| | Professional, Scientific and Technical Services | 4.7% | Wholesale Trade | 2.0% |
| | Specialised and other Machinery and Equipment Manufacturing | 3.3% | Postal and Courier Pick-up and Delivery Service | 1.1% |
| | Rental and Hiring Services (except Real Estate) | 2.4% | Computer Systems Design and Related Services | 1.1% |
| | Polymer Product Manufacturing | 1.6% | Waste Collection, Treatment and Disposal Services | 1.1% |
| | Telecommunication Services | 1.4% | Non Ferrous Metal Ore Mining | 0.8% |
| Other Repair and Maintenance | Rental and Hiring Services (except Real Estate) | 10.1% | Non Ferrous Metal Ore Mining | 8.2% |
| | Wholesale Trade | 7.9% | Professional, Scientific and Technical Services | 7.4% |
| | Specialised and other Machinery and Equipment Manufacturing | 7.1% | Telecommunication Services | 5.6% |
| | Professional, Scientific, Computer and Electronic Equipment Manufacturing | 6.9% | Wholesale Trade | 5.2% |
| | Professional, Scientific and Technical Services | 6.7% | Retail Trade | 4.9% |
| | Employment, Travel Agency and Other Administrative Services | 2.7% | Coal mining | 3.6% |
| | Electrical Equipment Manufacturing | 1.9% | Construction Services | 3.2% |

Source: CDM Smith Analysis (2020)

### I.1.34 Key Upstream and Downstream Sectors – Personal and Other Services, Ipswich City

| Target sector | Upstream sector | % of input ($) | Downstream sector | % of output ($) |
|---|---|---|---|---|
| Personal Services | Employment, Travel Agency and Other Administrative Services | 6.2% | Health Care Services | 7.5% |
| | Professional, Scientific and Technical Services | 5.8% | Professional, Scientific and Technical Services | 1.4% |
| | Telecommunication Services | 3.7% | Road Transport | 1.4% |
| | Wholesale Trade | 3.5% | Personal Services | 1.0% |
| | Rental and Hiring Services (except Real Estate) | 2.9% | Retail Trade | 1.0% |
| | Building Cleaning, Pest Control and Other Support Services | 2.4% | Residential Care and Social Assistance Services | 1.0% |
| | Computer Systems Design and Related Services | 2.2% | Motion Picture and Sound Recording | 0.5% |
| Other Services | Building Cleaning, Pest Control and Other Support Services | 0.9% | Residential Building Construction | 0.8% |
| | Wholesale Trade | 0.8% | Professional, Scientific and Technical Services | 0.6% |
| | Computer Systems Design and Related Services | 0.6% | Construction Services | 0.6% |

| Target sector | Upstream sector | % of input ($) | Downstream sector | % of output ($) |
|---|---|---|---|---|
| | Non-Residential Property Operators and Real Estate Services | 0.6% | Heavy and Civil Engineering Construction | 0.5% |
| | Professional, Scientific and Technical Services | 0.5% | Non-Residential Building Construction | 0.5% |
| | Sheep, Grains, Beef and Dairy Cattle | 0.5% | Health Care Services | 0.4% |
| | Dairy Product Manufacturing | 0.4% | Defence | 0.4% |

Source: CDM Smith Analysis (2020)

# Appendix J Ipswich City Two -Digit Employment

## Employment Projections, Two Digit ANZSIC, Ipswich City, 2016-2041

| ANZSIC2 | 2016 | 2021 | 2026 | 2031 | 2036 | 2041 |
|---|---|---|---|---|---|---|
| Agriculture | 294 | 267 | 256 | 246 | 236 | 227 |
| Aquaculture | 0 | 0 | 0 | 0 | 0 | 0 |
| Forestry and Logging | 0 | 0 | 0 | 0 | 0 | 0 |
| Fishing, Hunting and Trapping | 2 | 2 | 2 | 1 | 1 | 1 |
| Agriculture, Forestry and Fishing Support Services | 15 | 15 | 15 | 15 | 14 | 13 |
| Coal Mining | 258 | 283 | 323 | 369 | 434 | 507 |
| Oil and Gas Extraction | 9 | 16 | 20 | 28 | 35 | 39 |
| Metal Ore Mining | 15 | 22 | 28 | 37 | 46 | 49 |
| Non-Metallic Mineral Mining and Quarrying | 84 | 94 | 97 | 105 | 111 | 110 |
| Exploration and Other Mining Support Services | 77 | 104 | 132 | 154 | 164 | 184 |
| Food Product Manufacturing | 4,222 | 4,396 | 4,686 | 5,141 | 5,795 | 6,603 |
| Beverage and Tobacco Product Manufacturing | 230 | 284 | 352 | 449 | 531 | 630 |
| Textile, Leather, Clothing and Footwear Manufacturing | 126 | 124 | 123 | 129 | 142 | 157 |
| Wood Product Manufacturing | 292 | 290 | 299 | 342 | 398 | 453 |
| Pulp, Paper and Converted Paper Product Manufacturing | 335 | 348 | 370 | 397 | 424 | 482 |
| Printing (including the Reproduction of Recorded Media) | 58 | 58 | 56 | 58 | 65 | 69 |
| Petroleum and Coal Product Manufacturing | 47 | 64 | 79 | 81 | 72 | 63 |
| Basic Chemical and Chemical Product Manufacturing | 599 | 632 | 689 | 809 | 961 | 1,156 |
| Polymer Product and Rubber Product Manufacturing | 273 | 288 | 316 | 356 | 394 | 453 |
| Non-Metallic Mineral Product Manufacturing | 525 | 542 | 571 | 600 | 623 | 640 |
| Primary Metal and Metal Product Manufacturing | 1,478 | 1,522 | 1,635 | 1,846 | 2,185 | 2,596 |
| Fabricated Metal Product Manufacturing | 692 | 745 | 813 | 897 | 976 | 1,057 |
| Transport Equipment Manufacturing | 629 | 612 | 609 | 647 | 756 | 867 |

| ANZSIC2 | 2016 | 2021 | 2026 | 2031 | 2036 | 2041 |
|---|---|---|---|---|---|---|
| Machinery and Equipment Manufacturing | 870 | 1,056 | 1,281 | 1,585 | 1,916 | 2,258 |
| Furniture and Other Manufacturing | 460 | 468 | 463 | 460 | 496 | 524 |
| Electricity Supply | 232 | 220 | 199 | 178 | 112 | 138 |
| Gas Supply | 0 | 1 | 3 | 7 | 16 | 26 |
| Water Supply, Sewerage and Drainage Services | 339 | 383 | 434 | 502 | 599 | 581 |
| Waste Collection, Treatment and Disposal Services | 223 | 256 | 302 | 351 | 391 | 433 |
| Building Construction | 884 | 1,244 | 1,445 | 1,607 | 1,739 | 1,887 |
| Heavy and Civil Engineering Construction | 710 | 1,034 | 1,232 | 1,401 | 1,475 | 1,443 |
| Construction Services | 3,040 | 4,220 | 4,979 | 5,603 | 6,253 | 7,025 |
| Basic Material Wholesaling | 527 | 549 | 546 | 579 | 615 | 658 |
| Machinery and Equipment Wholesaling | 202 | 200 | 191 | 187 | 186 | 184 |
| Motor Vehicle and Motor Vehicle Parts Wholesaling | 181 | 191 | 199 | 209 | 211 | 206 |
| Grocery, Liquor and Tobacco Product Wholesaling | 458 | 491 | 555 | 581 | 607 | 646 |
| Other Goods Wholesaling | 347 | 348 | 346 | 345 | 347 | 341 |
| Commission-Based Wholesaling | 0 | 0 | 0 | 0 | 0 | 0 |
| Motor Vehicle and Motor Vehicle Parts Retailing | 541 | 567 | 642 | 690 | 744 | 781 |
| Fuel Retailing | 212 | 190 | 181 | 190 | 214 | 231 |
| Food Retailing | 2,978 | 3,141 | 3,498 | 3,913 | 4,389 | 4,921 |
| Other Store-Based Retailing | 4,049 | 4,336 | 4,855 | 5,373 | 5,799 | 6,247 |
| Non-Store Retailing and Retail Commission-Based Buying and/or Selling | 103 | 120 | 142 | 176 | 198 | 224 |
| Accommodation | 181 | 197 | 213 | 237 | 280 | 323 |
| Food and Beverage Services | 4,377 | 4,703 | 5,100 | 5,467 | 5,755 | 5,995 |
| Road Transport | 1,768 | 1,806 | 1,866 | 1,942 | 1,968 | 2,039 |
| Rail Transport | 986 | 1,015 | 1,080 | 1,165 | 1,254 | 1,344 |
| Water Transport | 0 | 0 | 0 | 0 | 0 | 0 |

| ANZSIC2 | 2016 | 2021 | 2026 | 2031 | 2036 | 2041 |
|---|---|---|---|---|---|---|
| Air and Space Transport | 61 | 91 | 131 | 192 | 331 | 447 |
| Other Transport | 19 | 22 | 23 | 24 | 24 | 24 |
| Postal and Courier Pick-up and Delivery Services | 251 | 285 | 315 | 346 | 347 | 354 |
| Transport Support Services | 102 | 115 | 127 | 136 | 140 | 143 |
| Warehousing and Storage Services | 127 | 135 | 145 | 155 | 161 | 169 |
| Publishing (except Internet and Music Publishing) | 103 | 103 | 106 | 116 | 125 | 136 |
| Motion Picture and Sound Recording Activities | 58 | 60 | 66 | 69 | 73 | 79 |
| Broadcasting (except Internet) | 14 | 16 | 16 | 16 | 15 | 13 |
| Internet Publishing and Broadcasting | 11 | 12 | 16 | 22 | 25 | 25 |
| Telecommunications Services | 72 | 76 | 83 | 82 | 81 | 81 |
| Internet Service Providers, Web Search Portals and Data Processing Services | 5 | 4 | 4 | 5 | 5 | 6 |
| Library and Other Information Services | 30 | 28 | 25 | 26 | 28 | 30 |
| Finance | 1,045 | 1,001 | 941 | 921 | 983 | 1,067 |
| Insurance and Superannuation Funds | 100 | 91 | 87 | 79 | 78 | 79 |
| Auxiliary Finance and Insurance Services | 303 | 301 | 289 | 302 | 325 | 370 |
| Rental and Hiring Services (except Real Estate) | 234 | 291 | 361 | 426 | 477 | 532 |
| Property Operators and Real Estate Services | 614 | 726 | 855 | 1,009 | 1,182 | 1,386 |
| Professional, Scientific and Technical Services (except Computer System Design and Related Services) | 2,097 | 2,333 | 2,594 | 2,804 | 3,075 | 3,372 |
| Computer System Design and Related Services | 424 | 597 | 807 | 1,111 | 1,366 | 1,707 |
| Administrative Services | 613 | 679 | 825 | 975 | 1,155 | 1,334 |
| Building Cleaning, Pest Control and Other Support Services | 994 | 1,155 | 1,461 | 1,850 | 2,266 | 2,817 |
| Public Administration | 4,078 | 4,308 | 4,705 | 5,080 | 5,476 | 5,929 |
| Defence | 1,319 | 1,285 | 1,230 | 1,241 | 1,202 | 1,167 |
| Public Order, Safety and Regulatory Services | 1,509 | 1,795 | 2,180 | 2,587 | 3,079 | 3,559 |
| Preschool and School Education | 5,022 | 5,639 | 6,565 | 7,376 | 8,342 | 9,367 |

| ANZSIC2 | 2016 | 2021 | 2026 | 2031 | 2036 | 2041 |
|---|---|---|---|---|---|---|
| Tertiary Education | 893 | 1,061 | 1,362 | 1,766 | 2,126 | 2,558 |
| Adult, Community and Other Education | 1,001 | 1,204 | 1,574 | 2,190 | 2,846 | 3,582 |
| Hospitals | 2,511 | 3,080 | 4,083 | 5,254 | 6,484 | 8,017 |
| Medical and Other Health Care Services | 2,665 | 3,135 | 3,836 | 4,548 | 5,334 | 6,225 |
| Residential Care Services | 1,495 | 1,832 | 2,478 | 3,448 | 4,595 | 5,857 |
| Social Assistance Services | 3,473 | 4,011 | 4,876 | 5,861 | 7,010 | 8,258 |
| Heritage Activities | 39 | 34 | 30 | 26 | 23 | 17 |
| Creative and Performing Arts Activities | 52 | 47 | 50 | 50 | 51 | 58 |
| Sports and Recreation Activities | 386 | 423 | 469 | 528 | 587 | 650 |
| Gambling Activities | 21 | 25 | 26 | 28 | 29 | 30 |
| Repair and Maintenance | 1,085 | 1,177 | 1,359 | 1,606 | 1,813 | 2,057 |
| Personal and Other Services | 1,179 | 1,341 | 1,578 | 1,818 | 2,133 | 2,484 |
| Private Households Employing Staff and Undifferentiated Goods and Service-Producing Activities of Households for Own Use | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 67,928 | 75,963 | 86,901 | 99,527 | 113,318 | 128,799 |

# Appendix K Concordance of Industrial Land Use Categories

### K.1.1 Employment to Land Use Conversion Rates Matrix, Ipswich City

| Two-Digit ANZSIC Category | Low Impact Industry | Medium Impact Industry | High Impact Industry |
|---|---|---|---|
| Agriculture | 0.0% | 0.0% | 0.0% |
| Aquaculture | 0.0% | 0.0% | 0.0% |
| Forestry and Logging | 0.0% | 0.0% | 0.0% |
| Fishing, Hunting and Trapping | 0.0% | 0.0% | 0.0% |
| Agriculture, Forestry and Fishing Support Services | 25.0% | 15.0% | 0.0% |
| Coal Mining | 45.0% | 35.0% | 10.0% |
| Oil and Gas Extraction | 45.0% | 40.0% | 10.0% |
| Metal Ore Mining | 40.0% | 45.0% | 10.0% |
| Non-metallic Mineral Mining and Quarrying | 0.0% | 0.0% | 0.0% |
| Exploration and Other Mining Support Services | 22.5% | 62.5% | 10.0% |
| Food Product Manufacturing | 15.0% | 25.0% | 55.0% |
| Beverage and Tobacco Product Manufacturing | 15.0% | 45.0% | 30.0% |
| Textile, Leather, Clothing and Footwear Manufacturing | 65.0% | 10.0% | 15.0% |
| Wood Product Manufacturing | 40.0% | 50.0% | 0.0% |
| Pulp, Paper and Converted Paper Product Manufacturing | 40.0% | 40.0% | 15.0% |
| Printing (including the Reproduction of Recorded Media) | 60.0% | 10.0% | 0.0% |
| Petroleum and Coal Product Manufacturing | 0.0% | 20.0% | 60.0% |
| Basic Chemical and Chemical Product Manufacturing | 15.0% | 25.0% | 45.0% |
| Polymer Product and Rubber Product Manufacturing | 30.0% | 40.0% | 25.0% |
| Non-metallic Mineral Product Manufacturing | 25.0% | 35.0% | 25.0% |
| Primary Metal and Metal Product Manufacturing | 15.0% | 47.5% | 30.0% |
| Fabricated Metal Product Manufacturing | 15.0% | 60.0% | 15.0% |
| Transport Equipment Manufacturing | 15.0% | 55.0% | 20.0% |
| Machinery and Equipment Manufacturing | 30.0% | 45.0% | 10.0% |
| Furniture and Other Manufacturing | 62.5% | 30.0% | 0.0% |
| Electricity Supply | 0.0% | 45.0% | 12.5% |
| Gas Supply | 0.0% | 60.0% | 20.0% |
| Water Supply, Sewerage and Drainage Services | 0.0% | 0.0% | 72.5% |
| Waste Collection, Treatment and Disposal Services | 0.0% | 0.0% | 45.0% |
| Building Construction | 12.5% | 0.0% | 0.0% |
| Heavy and Civil Engineering Construction | 20.0% | 0.0% | 0.0% |
| Construction Services | 5.0% | 0.0% | 0.0% |
| Basic Material Wholesaling | 75.0% | 0.0% | 0.0% |
| Machinery and Equipment Wholesaling | 70.0% | 0.0% | 0.0% |
| Motor Vehicle and Motor Vehicle Parts Wholesaling | 75.0% | 0.0% | 0.0% |
| Grocery, Liquor and Tobacco Product Wholesaling | 75.0% | 0.0% | 0.0% |

| Two-Digit ANZSIC Category | Low Impact Industry | Medium Impact Industry | High Impact Industry |
|---|---|---|---|
| Other Goods Wholesaling | 60.0% | 0.0% | 0.0% |
| Commission-based Wholesaling | 65.0% | 0.0% | 0.0% |
| Motor Vehicle and Motor Vehicle Parts Retailing | 0.0% | 0.0% | 0.0% |
| Fuel Retailing | 0.0% | 0.0% | 0.0% |
| Food Retailing | 0.0% | 0.0% | 0.0% |
| Other Store-based Retailing | 0.0% | 0.0% | 0.0% |
| Non-store Retailing and Retail Commission-based Buying and/or Selling | 45.0% | 5.0% | 0.0% |
| Accommodation | 0.0% | 0.0% | 0.0% |
| Food and Beverage Services | 0.0% | 0.0% | 0.0% |
| Road Transport | 0.0% | 5.0% | 0.0% |
| Rail Transport | 0.0% | 60.0% | 17.5% |
| Water Transport | 60.0% | 20.0% | 0.0% |
| Air and Space Transport | 10.0% | 10.0% | 47.5% |
| Other Transport | 10.0% | 50.0% | 0.0% |
| Postal and Courier Pick-up and Delivery Services | 40.0% | 25.0% | 0.0% |
| Transport Support Services | 0.0% | 70.0% | 15.0% |
| Warehousing and Storage Services | 60.0% | 20.0% | 10.0% |
| Publishing (except Internet and Music Publishing) | 27.5% | 0.0% | 0.0% |
| Motion Picture and Sound Recording Activities | 27.5% | 0.0% | 0.0% |
| Broadcasting (except Internet) | 0.0% | 30.0% | 0.0% |
| Internet Publishing and Broadcasting | 0.0% | 0.0% | 0.0% |
| Telecommunications Services | 0.0% | 65.0% | 0.0% |
| Internet Service Providers, Web Search Portals and Data Processing Services | 0.0% | 0.0% | 0.0% |
| Library and Other Information Services | 0.0% | 0.0% | 0.0% |
| Finance | 0.0% | 0.0% | 0.0% |
| Insurance and Superannuation Funds | 0.0% | 0.0% | 0.0% |
| Auxiliary Finance and Insurance Services | 0.0% | 0.0% | 0.0% |
| Rental and Hiring Services (except Real Estate) | 0.0% | 0.0% | 0.0% |
| Property Operators and Real Estate Services | 2.5% | 0.0% | 0.0% |
| Professional, Scientific and Technical Services (except Computer System Design and Related Services) | 0.0% | 0.0% | 0.0% |
| Computer System Design and Related Services | 5.0% | 0.0% | 0.0% |
| Administrative Services | 0.0% | 0.0% | 0.0% |
| Building Cleaning, Pest Control and Other Support Services | 52.5% | 0.0% | 0.0% |
| Public Administration | 0.0% | 0.0% | 0.0% |
| Defence | 0.0% | 0.0% | 0.0% |

| Two-Digit ANZSIC Category | Low Impact Industry | Medium Impact Industry | High Impact Industry |
|---|---|---|---|
| Public Order, Safety and Regulatory Services | 0.0% | 0.0% | 0.0% |
| Preschool and School Education | 0.0% | 0.0% | 0.0% |
| Tertiary Education | 0.0% | 0.0% | 0.0% |
| Adult, Community and Other Education | 0.0% | 0.0% | 0.0% |
| Hospitals | 0.0% | 0.0% | 0.0% |
| Medical and Other Health Care Services | 0.0% | 0.0% | 0.0% |
| Residential Care Services | 0.0% | 0.0% | 0.0% |
| Social Assistance Services | 0.0% | 0.0% | 0.0% |
| Heritage Activities | 0.0% | 0.0% | 0.0% |
| Creative and Performing Arts Activities | 0.0% | 0.0% | 0.0% |
| Sports and Recreation Activities | 0.0% | 0.0% | 0.0% |
| Gambling Activities | 0.0% | 0.0% | 0.0% |
| Repair and Maintenance | 5.0% | 0.0% | 0.0% |
| Personal and Other Services | 0.0% | 0.0% | 0.0% |
| Private Households Employing Staff and Undifferentiated Goods and Service-producing Activities of Households for Own Use | 0.0% | 0.0% | 0.0% |

# Appendix L Industrial Employment Projections by Activity Type and SA2

### L.1.1 Industrial Employment Projections, Scenario One, by SA2 and Activity Type, Ipswich City, 2019 to 2041

| | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
|---|---|---|---|---|---|---|
| **Rosewood SA2** | | | | | | |
| Low Impact Industry | 331 | 347 | 396 | 500 | 679 | 844 |
| Medium Impact Industry | 321 | 332 | 368 | 456 | 619 | 750 |
| High Impact Industry | 158 | 170 | 206 | 271 | 401 | 497 |
| Total | 810 | 849 | 970 | 1,227 | 1,699 | 2,091 |
| **Brassall SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 46 | 46 | 43 | 42 | 36 | 37 |
| Medium Impact Industry | 30 | 29 | 24 | 20 | 12 | 13 |
| High Impact Industry | 23 | 22 | 19 | 15 | 8 | 9 |
| Total | 98 | 97 | 85 | 76 | 55 | 59 |
| **Bundamba SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 444 | 450 | 468 | 516 | 563 | 595 |
| Medium Impact Industry | 436 | 447 | 495 | 586 | 688 | 775 |
| High Impact Industry | 258 | 267 | 297 | 350 | 411 | 457 |
| Total | 1,137 | 1,163 | 1,260 | 1,452 | 1,661 | 1,827 |
| **Churchill - Yamanto SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 284 | 312 | 427 | 520 | 634 | 765 |
| Medium Impact Industry | 212 | 224 | 264 | 340 | 434 | 548 |
| High Impact Industry | 310 | 317 | 355 | 440 | 552 | 715 |
| Total | 806 | 854 | 1,047 | 1,300 | 1,620 | 2,027 |
| **Ipswich - Central SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 301 | 323 | 358 | 442 | 552 | 679 |
| Medium Impact Industry | 219 | 239 | 312 | 402 | 519 | 673 |
| High Impact Industry | 230 | 247 | 305 | 374 | 465 | 555 |
| Total | 750 | 809 | 975 | 1,218 | 1,536 | 1,907 |
| **Ipswich - East SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 171 | 176 | 209 | 220 | 236 | 257 |
| Medium Impact Industry | 58 | 58 | 66 | 81 | 98 | 129 |
| High Impact Industry | 58 | 57 | 66 | 84 | 108 | 146 |
| Total | 287 | 292 | 340 | 386 | 442 | 533 |
| **Ipswich - North SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 33 | 32 | 30 | 27 | 25 | 31 |
| Medium Impact Industry | 17 | 17 | 17 | 18 | 19 | 20 |
| High Impact Industry | 22 | 23 | 22 | 21 | 22 | 19 |
| Total | 72 | 72 | 69 | 66 | 66 | 69 |
| **Karalee - Barellan Point SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |

| | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
|---|---|---|---|---|---|---|
| Low Impact Industry | 55 | 59 | 66 | 76 | 82 | 94 |
| Medium Impact Industry | 27 | 28 | 31 | 33 | 35 | 37 |
| High Impact Industry | 40 | 43 | 50 | 59 | 71 | 83 |
| Total | 122 | 130 | 148 | 168 | 189 | 214 |
| **Leichhardt - One Mile SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 238 | 238 | 249 | 274 | 324 | 369 |
| Medium Impact Industry | 284 | 285 | 308 | 357 | 444 | 517 |
| High Impact Industry | 287 | 287 | 306 | 352 | 441 | 471 |
| Total | 808 | 811 | 863 | 982 | 1,210 | 1,357 |
| **North Ipswich - Tivoli SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 136 | 136 | 155 | 139 | 129 | 120 |
| Medium Impact Industry | 75 | 69 | 58 | 57 | 52 | 57 |
| High Impact Industry | 26 | 25 | 20 | 21 | 20 | 23 |
| Total | 237 | 230 | 233 | 216 | 200 | 199 |
| **Raceview SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 137 | 133 | 126 | 125 | 131 | 124 |
| Medium Impact Industry | 99 | 97 | 97 | 97 | 79 | 89 |
| High Impact Industry | 45 | 45 | 47 | 46 | 27 | 39 |
| Total | 281 | 274 | 270 | 268 | 237 | 252 |
| **Ripley SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 132 | 169 | 296 | 525 | 732 | 997 |
| Medium Impact Industry | 83 | 88 | 103 | 137 | 171 | 219 |
| High Impact Industry | 85 | 96 | 132 | 193 | 255 | 327 |
| Total | 299 | 353 | 531 | 856 | 1,159 | 1,542 |
| **Riverview SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 433 | 435 | 443 | 465 | 492 | 520 |
| Medium Impact Industry | 504 | 511 | 542 | 590 | 649 | 692 |
| High Impact Industry | 1,034 | 1,045 | 1,102 | 1,197 | 1,325 | 1,421 |
| Total | 1,972 | 1,991 | 2,087 | 2,252 | 2,466 | 2,632 |
| **Bellbird Park - Brookwater SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 146 | 165 | 196 | 227 | 245 | 270 |
| Medium Impact Industry | 70 | 75 | 87 | 96 | 102 | 103 |
| High Impact Industry | 24 | 27 | 31 | 36 | 39 | 39 |
| Total | 240 | 266 | 314 | 359 | 385 | 413 |
| **Camira - Gailes SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 56 | 55 | 53 | 52 | 47 | 50 |
| Medium Impact Industry | 29 | 27 | 24 | 21 | 17 | 14 |
| High Impact Industry | 25 | 24 | 21 | 18 | 15 | 11 |

| | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
|---|---|---|---|---|---|---|
| Total | 110 | 106 | 99 | 91 | 80 | 75 |
| **Carole Park SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 1,575 | 1,581 | 1,615 | 1,655 | 1,679 | 1,741 |
| Medium Impact Industry | 1,824 | 1,853 | 1,962 | 2,048 | 2,129 | 2,295 |
| High Impact Industry | 1,469 | 1,479 | 1,538 | 1,582 | 1,658 | 1,805 |
| Total | 4,867 | 4,913 | 5,115 | 5,285 | 5,466 | 5,841 |
| **Collingwood Park - Redbank SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 297 | 322 | 350 | 376 | 390 | 404 |
| Medium Impact Industry | 726 | 741 | 789 | 855 | 931 | 1,020 |
| High Impact Industry | 235 | 241 | 258 | 280 | 307 | 338 |
| Total | 1,259 | 1,304 | 1,397 | 1,511 | 1,627 | 1,762 |
| **Goodna SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 160 | 173 | 206 | 219 | 231 | 256 |
| Medium Impact Industry | 120 | 126 | 137 | 148 | 159 | 187 |
| High Impact Industry | 88 | 94 | 103 | 115 | 130 | 152 |
| Total | 368 | 393 | 445 | 483 | 519 | 595 |
| **New Chum SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 14 | 13 | 11 | 8 | 5 | 5 |
| Medium Impact Industry | 14 | 12 | 10 | 7 | 4 | 4 |
| High Impact Industry | 17 | 16 | 16 | 14 | 11 | 9 |
| Total | 44 | 41 | 37 | 29 | 20 | 17 |
| **Redbank Plains SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 65 | 65 | 58 | 48 | 40 | 30 |
| Medium Impact Industry | 46 | 47 | 44 | 41 | 32 | 17 |
| High Impact Industry | 25 | 25 | 23 | 20 | 17 | 11 |
| Total | 136 | 136 | 125 | 109 | 90 | 58 |
| **Springfield SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 31 | 31 | 30 | 27 | 24 | 27 |
| Medium Impact Industry | 12 | 13 | 15 | 18 | 19 | 22 |
| High Impact Industry | 14 | 16 | 21 | 27 | 30 | 35 |
| Total | 57 | 60 | 66 | 72 | 74 | 84 |
| **Springfield Lakes SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 169 | 203 | 252 | 293 | 323 | 346 |
| Medium Impact Industry | 41 | 49 | 61 | 69 | 77 | 85 |
| High Impact Industry | 39 | 51 | 71 | 88 | 103 | 125 |
| Total | 248 | 302 | 384 | 450 | 503 | 556 |
| **Ipswich City** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |

| | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
|---|---|---|---|---|---|---|
| Low Impact Industry | 5,255 | 5,464 | 6,038 | 6,776 | 7,600 | 8,559 |
| Medium Impact Industry | 5,246 | 5,367 | 5,813 | 6,476 | 7,288 | 8,265 |
| High Impact Industry | 4,511 | 4,615 | 5,009 | 5,604 | 6,415 | 7,286 |
| Total | 15,011 | 15,446 | 16,859 | 18,857 | 21,304 | 24,111 |

### L.1.2 Industrial Employment Projections, Scenario Two (Conservative), by SA2 and Activity Type, Ipswich City, 2019 to 2041

| | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
|---|---|---|---|---|---|---|
| **Rosewood SA2** | | | | | | |
| Low Impact Industry | 342 | 369 | 437 | 571 | 810 | 1,051 |
| Medium Impact Industry | 333 | 352 | 406 | 521 | 739 | 935 |
| High Impact Industry | 164 | 181 | 227 | 310 | 478 | 620 |
| Total | 839 | 902 | 1,070 | 1,403 | 2,027 | 2,606 |
| **Brassall SA2** | | | | | | |
| Low Impact Industry | 48 | 49 | 47 | 48 | 42 | 46 |
| Medium Impact Industry | 31 | 31 | 26 | 22 | 14 | 16 |
| High Impact Industry | 23 | 23 | 21 | 17 | 10 | 11 |
| Total | 102 | 103 | 94 | 87 | 66 | 73 |
| **Bundamba SA2** | | | | | | |
| Low Impact Industry | 460 | 478 | 516 | 590 | 671 | 741 |
| Medium Impact Industry | 451 | 474 | 545 | 670 | 821 | 966 |
| High Impact Industry | 267 | 283 | 328 | 401 | 490 | 570 |
| Total | 1,178 | 1,235 | 1,389 | 1,660 | 1,982 | 2,277 |
| **Churchill - Yamanto SA2** | | | | | | |
| Low Impact Industry | 294 | 332 | 471 | 595 | 756 | 953 |
| Medium Impact Industry | 220 | 238 | 291 | 389 | 518 | 682 |
| High Impact Industry | 321 | 337 | 392 | 503 | 659 | 891 |
| Total | 835 | 907 | 1,154 | 1,487 | 1,933 | 2,526 |
| **Ipswich - Central SA2** | | | | | | |
| Low Impact Industry | 313 | 343 | 395 | 505 | 659 | 846 |
| Medium Impact Industry | 227 | 254 | 344 | 460 | 619 | 839 |
| High Impact Industry | 238 | 262 | 336 | 428 | 554 | 692 |
| Total | 777 | 859 | 1,075 | 1,393 | 1,832 | 2,377 |
| **Ipswich - East SA2** | | | | | | |
| Low Impact Industry | 177 | 187 | 230 | 252 | 282 | 321 |
| Medium Impact Industry | 60 | 62 | 72 | 93 | 117 | 161 |
| High Impact Industry | 60 | 61 | 72 | 97 | 128 | 182 |
| Total | 297 | 310 | 375 | 441 | 527 | 664 |

| | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
|---|---|---|---|---|---|---|
| **Ipswich - North SA2** | | | | | | |
| Low Impact Industry | 34 | 34 | 33 | 31 | 30 | 38 |
| Medium Impact Industry | 17 | 18 | 19 | 20 | 23 | 24 |
| High Impact Industry | 23 | 24 | 24 | 24 | 26 | 24 |
| Total | 75 | 76 | 76 | 76 | 79 | 86 |
| **Karalee - Barellan Point SA2** | | | | | | |
| Low Impact Industry | 57 | 62 | 73 | 87 | 98 | 118 |
| Medium Impact Industry | 28 | 30 | 34 | 38 | 42 | 46 |
| High Impact Industry | 41 | 46 | 55 | 67 | 85 | 104 |
| Total | 127 | 138 | 163 | 193 | 225 | 267 |
| **Leichhardt - One Mile SA2** | | | | | | |
| Low Impact Industry | 246 | 253 | 274 | 313 | 387 | 460 |
| Medium Impact Industry | 294 | 303 | 340 | 408 | 530 | 645 |
| High Impact Industry | 297 | 305 | 337 | 402 | 526 | 587 |
| Total | 837 | 862 | 951 | 1,123 | 1,443 | 1,692 |
| **North Ipswich - Tivoli SA2** | | | | | | |
| Low Impact Industry | 141 | 144 | 171 | 158 | 154 | 149 |
| Medium Impact Industry | 77 | 74 | 64 | 65 | 62 | 71 |
| High Impact Industry | 27 | 26 | 22 | 24 | 23 | 29 |
| Total | 246 | 244 | 257 | 247 | 239 | 249 |
| **Raceview SA2** | | | | | | |
| Low Impact Industry | 143 | 141 | 139 | 143 | 156 | 154 |
| Medium Impact Industry | 103 | 103 | 107 | 111 | 94 | 111 |
| High Impact Industry | 46 | 47 | 51 | 53 | 33 | 48 |
| Total | 291 | 291 | 298 | 307 | 283 | 314 |
| **Ripley SA2** | | | | | | |
| Low Impact Industry | 136 | 179 | 327 | 601 | 873 | 1,243 |
| Medium Impact Industry | 86 | 93 | 114 | 157 | 204 | 272 |
| High Impact Industry | 88 | 102 | 146 | 221 | 305 | 407 |
| Total | 310 | 374 | 586 | 979 | 1,382 | 1,922 |
| **Riverview SA2** | | | | | | |
| Low Impact Industry | 449 | 462 | 489 | 531 | 587 | 648 |
| Medium Impact Industry | 523 | 542 | 597 | 674 | 774 | 862 |
| High Impact Industry | 1,072 | 1,110 | 1,216 | 1,369 | 1,580 | 1,771 |
| Total | 2,044 | 2,114 | 2,301 | 2,575 | 2,942 | 3,281 |
| **Bellbird Park - Brookwater SA2** | | | | | | |
| Low Impact Industry | 151 | 175 | 216 | 259 | 292 | 337 |
| Medium Impact Industry | 72 | 80 | 96 | 110 | 121 | 128 |

| | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
|---|---|---|---|---|---|---|
| High Impact Industry | 25 | 28 | 35 | 41 | 46 | 49 |
| Total | 248 | 283 | 347 | 410 | 459 | 514 |
| **Camira - Gailes SA2** | | | | | | |
| Low Impact Industry | 59 | 59 | 59 | 60 | 57 | 62 |
| Medium Impact Industry | 30 | 28 | 26 | 24 | 20 | 17 |
| High Impact Industry | 26 | 25 | 24 | 21 | 18 | 14 |
| Total | 114 | 112 | 109 | 104 | 95 | 94 |
| **Carole Park SA2** | | | | | | |
| Low Impact Industry | 1,633 | 1,679 | 1,781 | 1,892 | 2,003 | 2,170 |
| Medium Impact Industry | 1,890 | 1,967 | 2,163 | 2,341 | 2,540 | 2,861 |
| High Impact Industry | 1,522 | 1,571 | 1,696 | 1,809 | 1,977 | 2,250 |
| Total | 5,045 | 5,218 | 5,640 | 6,043 | 6,520 | 7,280 |
| **Collingwood Park - Redbank SA2** | | | | | | |
| Low Impact Industry | 308 | 342 | 386 | 430 | 465 | 504 |
| Medium Impact Industry | 752 | 787 | 870 | 978 | 1,110 | 1,271 |
| High Impact Industry | 244 | 256 | 284 | 320 | 366 | 421 |
| Total | 1,303 | 1,385 | 1,540 | 1,728 | 1,941 | 2,196 |
| **Goodna SA2** | | | | | | |
| Low Impact Industry | 166 | 184 | 227 | 250 | 275 | 319 |
| Medium Impact Industry | 125 | 134 | 151 | 170 | 189 | 234 |
| High Impact Industry | 91 | 99 | 113 | 132 | 155 | 189 |
| Total | 382 | 417 | 491 | 552 | 619 | 742 |
| **New Chum SA2** | | | | | | |
| Low Impact Industry | 15 | 14 | 12 | 9 | 6 | 6 |
| Medium Impact Industry | 14 | 13 | 11 | 8 | 4 | 4 |
| High Impact Industry | 17 | 17 | 17 | 16 | 13 | 11 |
| Total | 46 | 44 | 40 | 33 | 23 | 21 |
| **Redbank Plains SA2** | | | | | | |
| Low Impact Industry | 68 | 69 | 64 | 55 | 48 | 38 |
| Medium Impact Industry | 48 | 50 | 49 | 47 | 39 | 21 |
| High Impact Industry | 26 | 26 | 25 | 23 | 21 | 13 |
| Total | 141 | 145 | 138 | 125 | 107 | 72 |
| **Springfield SA2** | | | | | | |
| Low Impact Industry | 32 | 33 | 33 | 31 | 29 | 33 |
| Medium Impact Industry | 12 | 14 | 17 | 20 | 23 | 27 |
| High Impact Industry | 15 | 17 | 24 | 31 | 36 | 44 |
| Total | 59 | 63 | 73 | 82 | 88 | 105 |

| | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
|---|---|---|---|---|---|---|
| **Springfield Lakes SA2** | | | | | | |
| Low Impact Industry | 175 | 215 | 278 | 335 | 385 | 431 |
| Medium Impact Industry | 42 | 52 | 67 | 79 | 92 | 106 |
| High Impact Industry | 40 | 54 | 78 | 101 | 123 | 156 |
| Total | 257 | 321 | 423 | 515 | 600 | 693 |
| **Ipswich City** | | | | | | |
| Low Impact Industry | 5,447 | 5,803 | 6,657 | 7,748 | 9,065 | 10,668 |
| Medium Impact Industry | 5,435 | 5,700 | 6,409 | 7,405 | 8,693 | 10,302 |
| High Impact Industry | 4,674 | 4,902 | 5,523 | 6,408 | 7,652 | 9,081 |
| Total | 15,556 | 16,405 | 18,589 | 21,561 | 25,411 | 30,050 |

Source: QGSO (2018), NIEIR (2019) and CDM Smith analysis

### L.1.3 Industrial Employment Projections, Scenario Two (Optimistic), by SA2 and Activity Type, Ipswich City, 2019 to 2041

| | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
|---|---|---|---|---|---|---|
| **Rosewood SA2** | | | | | | |
| Low Impact Industry | 347 | 378 | 458 | 614 | 892 | 1,186 |
| Medium Impact Industry | 337 | 361 | 426 | 561 | 813 | 1,055 |
| High Impact Industry | 166 | 185 | 238 | 333 | 527 | 699 |
| Total | 851 | 924 | 1,122 | 1,508 | 2,232 | 2,940 |
| **Brassall SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 48 | 51 | 49 | 51 | 47 | 52 |
| Medium Impact Industry | 31 | 31 | 27 | 24 | 15 | 18 |
| High Impact Industry | 24 | 24 | 22 | 18 | 11 | 12 |
| Total | 103 | 106 | 99 | 93 | 73 | 83 |
| **Bundamba SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 467 | 489 | 541 | 634 | 739 | 836 |
| Medium Impact Industry | 458 | 486 | 572 | 720 | 904 | 1,089 |
| High Impact Industry | 271 | 290 | 344 | 431 | 539 | 643 |
| Total | 1,196 | 1,265 | 1,458 | 1,784 | 2,182 | 2,568 |
| **Churchill - Yamanto SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 299 | 340 | 495 | 639 | 832 | 1,075 |
| Medium Impact Industry | 223 | 244 | 306 | 418 | 571 | 770 |
| High Impact Industry | 326 | 345 | 411 | 541 | 726 | 1,005 |
| Total | 848 | 929 | 1,211 | 1,598 | 2,128 | 2,850 |
| **Ipswich - Central SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 317 | 351 | 414 | 543 | 725 | 954 |
| Medium Impact Industry | 230 | 260 | 361 | 494 | 681 | 946 |

| | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
|---|---|---|---|---|---|---|
| High Impact Industry | 242 | 269 | 353 | 460 | 610 | 781 |
| Total | 789 | 880 | 1,128 | 1,497 | 2,017 | 2,682 |
| **Ipswich - East SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 179 | 192 | 241 | 271 | 310 | 362 |
| Medium Impact Industry | 61 | 63 | 76 | 100 | 128 | 181 |
| High Impact Industry | 61 | 63 | 76 | 104 | 141 | 206 |
| Total | 302 | 317 | 393 | 474 | 580 | 749 |
| **Ipswich - North SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 35 | 35 | 34 | 33 | 33 | 43 |
| Medium Impact Industry | 18 | 19 | 20 | 22 | 26 | 28 |
| High Impact Industry | 24 | 25 | 25 | 26 | 29 | 27 |
| Total | 76 | 78 | 79 | 81 | 87 | 97 |
| **Karalee - Barellan Point SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 58 | 64 | 76 | 94 | 108 | 133 |
| Medium Impact Industry | 29 | 31 | 36 | 41 | 46 | 51 |
| High Impact Industry | 42 | 47 | 58 | 72 | 93 | 117 |
| Total | 129 | 142 | 171 | 207 | 248 | 301 |
| **Leichhardt - One Mile SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 250 | 259 | 288 | 336 | 426 | 519 |
| Medium Impact Industry | 298 | 311 | 356 | 438 | 583 | 727 |
| High Impact Industry | 301 | 313 | 354 | 432 | 579 | 662 |
| Total | 849 | 883 | 998 | 1,207 | 1,589 | 1,908 |
| **North Ipswich - Tivoli SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 144 | 148 | 180 | 170 | 170 | 168 |
| Medium Impact Industry | 78 | 75 | 67 | 70 | 68 | 80 |
| High Impact Industry | 27 | 27 | 23 | 26 | 26 | 32 |
| Total | 249 | 250 | 269 | 266 | 263 | 280 |
| **Raceview SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 145 | 144 | 146 | 154 | 172 | 174 |
| Medium Impact Industry | 104 | 105 | 113 | 119 | 103 | 126 |
| High Impact Industry | 47 | 49 | 54 | 57 | 36 | 54 |
| Total | 296 | 298 | 312 | 330 | 312 | 354 |
| **Ripley SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 138 | 183 | 343 | 646 | 961 | 1,402 |
| Medium Impact Industry | 87 | 96 | 119 | 169 | 225 | 307 |
| High Impact Industry | 90 | 105 | 153 | 238 | 335 | 459 |
| Total | 315 | 384 | 615 | 1,052 | 1,522 | 2,168 |

| | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
|---|---|---|---|---|---|---|
| **Riverview SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 456 | 473 | 513 | 571 | 647 | 731 |
| Medium Impact Industry | 530 | 556 | 627 | 725 | 852 | 972 |
| High Impact Industry | 1,087 | 1,137 | 1,276 | 1,472 | 1,740 | 1,998 |
| Total | 2,073 | 2,166 | 2,415 | 2,768 | 3,239 | 3,701 |
| **Bellbird Park - Brookwater SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 153 | 179 | 227 | 279 | 322 | 380 |
| Medium Impact Industry | 73 | 82 | 101 | 118 | 133 | 145 |
| High Impact Industry | 25 | 29 | 36 | 44 | 51 | 55 |
| Total | 252 | 290 | 364 | 441 | 505 | 580 |
| **Camira - Gailes SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 59 | 60 | 62 | 64 | 62 | 70 |
| Medium Impact Industry | 30 | 29 | 27 | 25 | 22 | 20 |
| High Impact Industry | 26 | 26 | 25 | 22 | 20 | 16 |
| Total | 116 | 115 | 114 | 112 | 105 | 106 |
| **Carole Park SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 1,657 | 1,720 | 1,869 | 2,034 | 2,205 | 2,448 |
| Medium Impact Industry | 1,918 | 2,015 | 2,270 | 2,517 | 2,797 | 3,227 |
| High Impact Industry | 1,544 | 1,609 | 1,780 | 1,945 | 2,177 | 2,538 |
| Total | 5,119 | 5,345 | 5,918 | 6,496 | 7,179 | 8,212 |
| **Collingwood Park - Redbank SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 312 | 350 | 405 | 462 | 512 | 568 |
| Medium Impact Industry | 763 | 806 | 913 | 1,051 | 1,222 | 1,434 |
| High Impact Industry | 247 | 262 | 298 | 344 | 403 | 475 |
| Total | 1,322 | 1,419 | 1,616 | 1,858 | 2,137 | 2,477 |
| **Goodna SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 168 | 188 | 238 | 269 | 303 | 360 |
| Medium Impact Industry | 127 | 137 | 158 | 182 | 208 | 264 |
| High Impact Industry | 92 | 102 | 119 | 142 | 170 | 213 |
| Total | 387 | 427 | 515 | 593 | 682 | 837 |
| **New Chum SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 15 | 14 | 12 | 10 | 6 | 6 |
| Medium Impact Industry | 14 | 13 | 12 | 9 | 5 | 5 |
| High Impact Industry | 18 | 17 | 18 | 17 | 15 | 12 |
| Total | 47 | 45 | 42 | 36 | 26 | 23 |
| **Redbank Plains SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 69 | 70 | 68 | 59 | 52 | 42 |
| Medium Impact Industry | 48 | 51 | 51 | 50 | 42 | 24 |

| | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
|---|---|---|---|---|---|---|
| High Impact Industry | 26 | 27 | 26 | 25 | 23 | 15 |
| Total | 143 | 148 | 145 | 134 | 118 | 81 |
| **Springfield SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 33 | 34 | 34 | 33 | 32 | 37 |
| Medium Impact Industry | 13 | 14 | 18 | 22 | 25 | 31 |
| High Impact Industry | 15 | 17 | 25 | 33 | 40 | 50 |
| Total | 60 | 65 | 77 | 88 | 97 | 118 |
| **Springfield Lakes SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 177 | 221 | 292 | 360 | 424 | 486 |
| Medium Impact Industry | 43 | 53 | 70 | 85 | 101 | 120 |
| High Impact Industry | 41 | 55 | 82 | 108 | 136 | 176 |
| Total | 261 | 329 | 444 | 553 | 661 | 782 |
| **Ipswich City** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 5,526 | 5,945 | 6,986 | 8,329 | 9,982 | 12,034 |
| Medium Impact Industry | 5,514 | 5,839 | 6,725 | 7,960 | 9,573 | 11,621 |
| High Impact Industry | 4,742 | 5,021 | 5,796 | 6,888 | 8,426 | 10,244 |
| Total | 15,782 | 16,805 | 19,507 | 23,177 | 27,982 | 33,898 |

Source: QGSO (2018), NIEIR (2019) and CDM Smith analysis

### L.1.4 Industrial Employment Projections, Scenario Three, by SA2 and Activity Type, Ipswich City, 2019 to 2041

| | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
|---|---|---|---|---|---|---|
| **Rosewood SA2** | | | | | | |
| Low Impact Industry | 331 | 370 | 451 | 615 | 904 | 1,184 |
| Medium Impact Industry | 321 | 360 | 442 | 615 | 929 | 1,220 |
| High Impact Industry | 158 | 186 | 253 | 379 | 634 | 875 |
| Total | 810 | 916 | 1,146 | 1,610 | 2,468 | 3,279 |
| **Brassall SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 46 | 50 | 49 | 51 | 45 | 49 |
| Medium Impact Industry | 30 | 32 | 30 | 28 | 19 | 23 |
| High Impact Industry | 23 | 24 | 23 | 20 | 12 | 14 |
| Total | 98 | 106 | 102 | 99 | 76 | 87 |
| **Bundamba SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 444 | 502 | 577 | 707 | 846 | 966 |
| Medium Impact Industry | 436 | 488 | 601 | 803 | 1,050 | 1,292 |
| High Impact Industry | 258 | 284 | 346 | 454 | 588 | 716 |
| Total | 1,137 | 1,274 | 1,524 | 1,963 | 2,484 | 2,975 |
| **Churchill - Yamanto SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |

| | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
|---|---|---|---|---|---|---|
| Low Impact Industry | 284 | 348 | 524 | 697 | 921 | 1,195 |
| Medium Impact Industry | 212 | 243 | 314 | 451 | 636 | 870 |
| High Impact Industry | 310 | 344 | 424 | 589 | 823 | 1,164 |
| Total | 806 | 934 | 1,262 | 1,738 | 2,379 | 3,229 |
| **Ipswich - Central SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 301 | 348 | 408 | 544 | 734 | 972 |
| Medium Impact Industry | 219 | 267 | 393 | 568 | 807 | 1,138 |
| High Impact Industry | 230 | 243 | 305 | 389 | 515 | 676 |
| Total | 750 | 857 | 1,105 | 1,501 | 2,056 | 2,787 |
| **Ipswich - East SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 171 | 192 | 244 | 281 | 325 | 383 |
| Medium Impact Industry | 58 | 62 | 77 | 106 | 141 | 204 |
| High Impact Industry | 58 | 61 | 76 | 108 | 153 | 228 |
| Total | 287 | 315 | 398 | 495 | 619 | 816 |
| **Ipswich - North SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 33 | 34 | 34 | 33 | 33 | 44 |
| Medium Impact Industry | 17 | 19 | 21 | 25 | 30 | 34 |
| High Impact Industry | 22 | 22 | 21 | 22 | 25 | 26 |
| Total | 72 | 74 | 76 | 80 | 89 | 104 |
| **Karalee - Barellan Point SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 55 | 64 | 76 | 93 | 106 | 127 |
| Medium Impact Industry | 27 | 32 | 41 | 50 | 57 | 65 |
| High Impact Industry | 40 | 41 | 46 | 50 | 58 | 66 |
| Total | 122 | 137 | 163 | 193 | 221 | 258 |
| **Leichhardt - One Mile SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 238 | 261 | 298 | 365 | 478 | 591 |
| Medium Impact Industry | 284 | 310 | 370 | 483 | 671 | 855 |
| High Impact Industry | 287 | 307 | 355 | 449 | 618 | 757 |
| Total | 808 | 878 | 1,024 | 1,297 | 1,768 | 2,204 |
| **North Ipswich - Tivoli SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 136 | 151 | 189 | 185 | 187 | 186 |
| Medium Impact Industry | 75 | 77 | 72 | 80 | 80 | 96 |
| High Impact Industry | 26 | 27 | 25 | 30 | 31 | 39 |
| Total | 237 | 256 | 285 | 295 | 297 | 322 |
| **Raceview SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 137 | 143 | 148 | 162 | 186 | 189 |
| Medium Impact Industry | 99 | 99 | 104 | 114 | 116 | 127 |
| High Impact Industry | 45 | 43 | 44 | 44 | 35 | 42 |

| | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
|---|---|---|---|---|---|---|
| Total | 281 | 285 | 296 | 320 | 337 | 358 |
| **Ripley SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 132 | 175 | 313 | 569 | 810 | 1,130 |
| Medium Impact Industry | 83 | 87 | 109 | 165 | 234 | 335 |
| High Impact Industry | 85 | 95 | 136 | 218 | 317 | 451 |
| Total | 299 | 357 | 558 | 953 | 1,362 | 1,916 |
| **Riverview SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 433 | 482 | 543 | 637 | 746 | 859 |
| Medium Impact Industry | 504 | 554 | 648 | 793 | 973 | 1,135 |
| High Impact Industry | 1,034 | 1,131 | 1,317 | 1,607 | 1,980 | 2,322 |
| Total | 1,972 | 2,167 | 2,508 | 3,037 | 3,699 | 4,317 |
| **Bellbird Park - Brookwater SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 146 | 170 | 209 | 249 | 275 | 307 |
| Medium Impact Industry | 70 | 78 | 96 | 113 | 126 | 133 |
| High Impact Industry | 24 | 28 | 35 | 43 | 50 | 54 |
| Total | 240 | 276 | 340 | 405 | 450 | 494 |
| **Camira - Gailes SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 56 | 59 | 59 | 60 | 56 | 60 |
| Medium Impact Industry | 29 | 29 | 29 | 29 | 26 | 24 |
| High Impact Industry | 25 | 26 | 26 | 24 | 23 | 19 |
| Total | 110 | 114 | 114 | 114 | 106 | 103 |
| **Carole Park SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 1,575 | 1,760 | 1,989 | 2,280 | 2,554 | 2,873 |
| Medium Impact Industry | 1,824 | 2,011 | 2,356 | 2,768 | 3,208 | 3,781 |
| High Impact Industry | 1,469 | 1,601 | 1,837 | 2,119 | 2,469 | 2,938 |
| Total | 4,867 | 5,373 | 6,183 | 7,167 | 8,231 | 9,591 |
| **Collingwood Park - Redbank SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 297 | 336 | 381 | 433 | 477 | 529 |
| Medium Impact Industry | 726 | 859 | 1,077 | 1,365 | 1,677 | 2,031 |
| High Impact Industry | 235 | 276 | 345 | 435 | 534 | 648 |
| Total | 1,259 | 1,471 | 1,802 | 2,232 | 2,688 | 3,208 |
| **Goodna SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 160 | 185 | 237 | 273 | 308 | 367 |
| Medium Impact Industry | 120 | 138 | 167 | 205 | 244 | 315 |
| High Impact Industry | 88 | 98 | 114 | 138 | 165 | 210 |
| Total | 368 | 421 | 518 | 616 | 717 | 892 |
| **New Chum SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |

| | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
|---|---|---|---|---|---|---|
| Low Impact Industry | 14 | 14 | 13 | 11 | 7 | 7 |
| Medium Impact Industry | 14 | 13 | 12 | 10 | 6 | 6 |
| High Impact Industry | 17 | 16 | 16 | 14 | 10 | 8 |
| Total | 44 | 44 | 41 | 35 | 23 | 22 |
| **Redbank Plains SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 65 | 69 | 67 | 60 | 54 | 42 |
| Medium Impact Industry | 46 | 53 | 58 | 62 | 55 | 31 |
| High Impact Industry | 25 | 26 | 25 | 25 | 22 | 13 |
| Total | 136 | 148 | 150 | 146 | 131 | 86 |
| **Springfield SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 31 | 33 | 34 | 34 | 34 | 39 |
| Medium Impact Industry | 12 | 14 | 19 | 24 | 29 | 37 |
| High Impact Industry | 14 | 17 | 26 | 36 | 45 | 58 |
| Total | 57 | 64 | 78 | 95 | 108 | 134 |
| **Springfield Lakes SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 169 | 210 | 271 | 330 | 381 | 433 |
| Medium Impact Industry | 41 | 53 | 72 | 91 | 113 | 139 |
| High Impact Industry | 39 | 55 | 85 | 119 | 156 | 206 |
| Total | 248 | 318 | 428 | 539 | 649 | 778 |
| **Ipswich City** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 5,255 | 5,956 | 7,115 | 8,667 | 10,465 | 12,534 |
| Medium Impact Industry | 5,246 | 5,879 | 7,109 | 8,949 | 11,227 | 13,891 |
| High Impact Industry | 4,511 | 4,951 | 5,877 | 7,312 | 9,264 | 11,533 |
| Total | 15,011 | 16,786 | 20,101 | 24,928 | 30,956 | 37,958 |

Source: QGSO (2018), NIEIR (2019) and CDM Smith analysis

# Appendix M Assumed Employment Densities by Industry Sector

### M.1.1 Assumed Employment Densities by Industry Sector, Ipswich City, 2016-2041

| Industrial Use Category | Employment / hectare assumption |
|---|---|
| **Large Footprint and General Industry** | |
| Beverage and Tobacco Product Manufacturing | 40 |
| Food Product Manufacturing | 40 |
| Wood Product Manufacturing | 35 |
| Pulp, Paper and Converted Paper Product Manufacturing | 40 |
| Petroleum and Coal Product Manufacturing | 35 |
| Basic Chemical and Chemical Product Manufacturing | 35 |
| Polymer Product and Rubber Product Manufacturing | 30 |
| Non-Metallic Mineral Product Manufacturing | 20 |
| Primary Metal and Metal Product Manufacturing | 25 |
| Machinery and Equipment Manufacturing | 45 |
| Fabricated Metal Product Manufacturing | 35 |
| Transport Equipment Manufacturing | 45 |
| Furniture and Other Manufacturing | 35 |
| **Service Industry** | |
| Textile, Leather, Clothing and Footwear Manufacturing | 45 |
| Printing (including the Reproduction of Recorded Media) | 40 |
| Publishing (except Internet and Music Publishing) | 40 |
| Construction Services | 30 |
| Repair and Maintenance | 35 |
| **Warehousing and Storage** | |
| Wholesale Trade | 20 |
| **Transport Uses** | |
| Motor Vehicle and Motor Vehicle Parts Retailing | 30 |
| Road Transport | 25 |
| Rail Transport | 10 |
| Transport Support Services and Storage | 30 |
| Postal and Courier Pick-up and Delivery Services | 35 |

# Appendix N Net Industrial Land Demand by Activity Type and SA2

### N.1.1 Net Industrial Land Demand Projections (ha) by SA2 and Activity Type, Scenario One, Ipswich City, 2016 to 2041

| | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
|---|---|---|---|---|---|---|
| **Rosewood SA2** | | | | | | |
| Low Impact Industry | 7.3 | 7.7 | 8.8 | 11.1 | 15.1 | 18.7 |
| Medium Impact Industry | 9.2 | 9.5 | 10.5 | 13.0 | 17.7 | 21.4 |
| High Impact Industry | 5.3 | 5.7 | 6.9 | 9.0 | 13.4 | 16.6 |
| Total | 21.8 | 22.9 | 26.2 | 33.2 | 46.1 | 56.8 |
| **Brassall SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 1.0 | 1.0 | 0.9 | 0.9 | 0.8 | 0.8 |
| Medium Impact Industry | 0.8 | 0.8 | 0.7 | 0.6 | 0.3 | 0.4 |
| High Impact Industry | 0.8 | 0.7 | 0.6 | 0.5 | 0.3 | 0.3 |
| Total | 2.6 | 2.6 | 2.3 | 2.0 | 1.4 | 1.5 |
| **Bundamba SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 9.9 | 10.0 | 10.4 | 11.5 | 12.5 | 13.2 |
| Medium Impact Industry | 12.5 | 12.8 | 14.1 | 16.7 | 19.7 | 22.1 |
| High Impact Industry | 8.6 | 8.9 | 9.9 | 11.7 | 13.7 | 15.2 |
| Total | 30.9 | 31.6 | 34.4 | 39.9 | 45.9 | 50.6 |
| **Churchill - Yamanto SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 6.3 | 6.9 | 9.5 | 11.6 | 14.1 | 17.0 |
| Medium Impact Industry | 6.1 | 6.4 | 7.5 | 9.7 | 12.4 | 15.6 |
| High Impact Industry | 10.3 | 10.6 | 11.8 | 14.7 | 18.4 | 23.8 |
| Total | 22.7 | 23.9 | 28.9 | 35.9 | 44.9 | 56.5 |
| **Ipswich - Central SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 6.7 | 7.2 | 8.0 | 9.8 | 12.3 | 15.1 |
| Medium Impact Industry | 6.3 | 6.8 | 8.9 | 11.5 | 14.8 | 19.2 |
| High Impact Industry | 7.7 | 8.2 | 10.2 | 12.5 | 15.5 | 18.5 |
| Total | 20.6 | 22.2 | 27.0 | 33.8 | 42.6 | 52.8 |
| **Ipswich - East SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 3.8 | 3.9 | 4.6 | 4.9 | 5.3 | 5.7 |
| Medium Impact Industry | 1.7 | 1.7 | 1.9 | 2.3 | 2.8 | 3.7 |
| High Impact Industry | 1.9 | 1.9 | 2.2 | 2.8 | 3.6 | 4.9 |
| Total | 7.4 | 7.5 | 8.7 | 10.0 | 11.6 | 14.3 |
| **Ipswich - North SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 0.7 | 0.7 | 0.7 | 0.6 | 0.6 | 0.7 |
| Medium Impact Industry | 0.5 | 0.5 | 0.5 | 0.5 | 0.6 | 0.6 |
| High Impact Industry | 0.7 | 0.8 | 0.7 | 0.7 | 0.7 | 0.6 |
| Total | 2.0 | 1.9 | 1.9 | 1.8 | 1.8 | 1.9 |
| **Karalee - Barellan Point SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |

| | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
|---|---|---|---|---|---|---|
| Low Impact Industry | 1.2 | 1.3 | 1.5 | 1.7 | 1.8 | 2.1 |
| Medium Impact Industry | 0.8 | 0.8 | 0.9 | 1.0 | 1.0 | 1.0 |
| High Impact Industry | 1.3 | 1.4 | 1.7 | 2.0 | 2.4 | 2.8 |
| Total | 3.3 | 3.6 | 4.0 | 4.6 | 5.2 | 5.9 |
| **Leichhardt - One Mile SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 5.3 | 5.3 | 5.5 | 6.1 | 7.2 | 8.2 |
| Medium Impact Industry | 8.1 | 8.2 | 8.8 | 10.2 | 12.7 | 14.8 |
| High Impact Industry | 9.6 | 9.6 | 10.2 | 11.7 | 14.7 | 15.7 |
| Total | 22.9 | 23.0 | 24.5 | 28.0 | 34.6 | 38.7 |
| **North Ipswich - Tivoli SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 3.0 | 3.0 | 3.5 | 3.1 | 2.9 | 2.7 |
| Medium Impact Industry | 2.1 | 2.0 | 1.6 | 1.6 | 1.5 | 1.6 |
| High Impact Industry | 0.9 | 0.8 | 0.7 | 0.7 | 0.7 | 0.8 |
| Total | 6.0 | 5.8 | 5.8 | 5.4 | 5.0 | 5.0 |
| **Raceview SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 3.1 | 2.9 | 2.8 | 2.8 | 2.9 | 2.7 |
| Medium Impact Industry | 2.8 | 2.8 | 2.8 | 2.8 | 2.2 | 2.6 |
| High Impact Industry | 1.5 | 1.5 | 1.6 | 1.5 | 0.9 | 1.3 |
| Total | 7.4 | 7.2 | 7.1 | 7.1 | 6.1 | 6.6 |
| **Ripley SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 2.9 | 3.7 | 6.6 | 11.7 | 16.3 | 22.2 |
| Medium Impact Industry | 2.4 | 2.5 | 2.9 | 3.9 | 4.9 | 6.2 |
| High Impact Industry | 2.8 | 3.2 | 4.4 | 6.4 | 8.5 | 10.9 |
| Total | 8.1 | 9.5 | 13.9 | 22.0 | 29.7 | 39.3 |
| **Riverview SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 9.6 | 9.7 | 9.8 | 10.3 | 10.9 | 11.5 |
| Medium Impact Industry | 14.4 | 14.6 | 15.5 | 16.9 | 18.5 | 19.8 |
| High Impact Industry | 34.5 | 34.8 | 36.7 | 39.9 | 44.2 | 47.4 |
| Total | 58.5 | 59.1 | 62.1 | 67.1 | 73.6 | 78.7 |
| **Bellbird Park - Brookwater SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 3.2 | 3.7 | 4.4 | 5.0 | 5.4 | 6.0 |
| Medium Impact Industry | 2.0 | 2.1 | 2.5 | 2.8 | 2.9 | 2.9 |
| High Impact Industry | 0.8 | 0.9 | 1.0 | 1.2 | 1.3 | 1.3 |
| Total | 6.0 | 6.7 | 7.9 | 9.0 | 9.6 | 10.3 |
| **Camira - Gailes SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 1.3 | 1.2 | 1.2 | 1.2 | 1.1 | 1.1 |
| Medium Impact Industry | 0.8 | 0.8 | 0.7 | 0.6 | 0.5 | 0.4 |
| High Impact Industry | 0.8 | 0.8 | 0.7 | 0.6 | 0.5 | 0.4 |

| | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
|---|---|---|---|---|---|---|
| Total | 2.9 | 2.8 | 2.6 | 2.4 | 2.0 | 1.9 |
| **Carole Park SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 35.0 | 35.1 | 35.9 | 36.8 | 37.3 | 38.7 |
| Medium Impact Industry | 52.1 | 52.9 | 56.0 | 58.5 | 60.8 | 65.6 |
| High Impact Industry | 49.0 | 49.3 | 51.3 | 52.7 | 55.3 | 60.2 |
| Total | 136.1 | 137.4 | 143.2 | 148.0 | 153.4 | 164.4 |
| **Collingwood Park - Redbank SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 6.6 | 7.2 | 7.8 | 8.4 | 8.7 | 9.0 |
| Medium Impact Industry | 20.8 | 21.2 | 22.5 | 24.4 | 26.6 | 29.1 |
| High Impact Industry | 7.8 | 8.0 | 8.6 | 9.3 | 10.2 | 11.3 |
| Total | 35.2 | 36.4 | 38.9 | 42.1 | 45.5 | 49.4 |
| **Goodna SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 3.6 | 3.8 | 4.6 | 4.9 | 5.1 | 5.7 |
| Medium Impact Industry | 3.4 | 3.6 | 3.9 | 4.2 | 4.5 | 5.4 |
| High Impact Industry | 2.9 | 3.1 | 3.4 | 3.8 | 4.3 | 5.1 |
| Total | 9.9 | 10.6 | 11.9 | 12.9 | 14.0 | 16.1 |
| **New Chum SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 0.3 | 0.3 | 0.2 | 0.2 | 0.1 | 0.1 |
| Medium Impact Industry | 0.4 | 0.3 | 0.3 | 0.2 | 0.1 | 0.1 |
| High Impact Industry | 0.6 | 0.5 | 0.5 | 0.5 | 0.4 | 0.3 |
| Total | 1.3 | 1.2 | 1.1 | 0.8 | 0.6 | 0.5 |
| **Redbank Plains SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 1.4 | 1.4 | 1.3 | 1.1 | 0.9 | 0.7 |
| Medium Impact Industry | 1.3 | 1.3 | 1.3 | 1.2 | 0.9 | 0.5 |
| High Impact Industry | 0.8 | 0.8 | 0.8 | 0.7 | 0.6 | 0.4 |
| Total | 3.6 | 3.6 | 3.3 | 2.9 | 2.4 | 1.5 |
| **Springfield SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 0.7 | 0.7 | 0.7 | 0.6 | 0.5 | 0.6 |
| Medium Impact Industry | 0.3 | 0.4 | 0.4 | 0.5 | 0.5 | 0.6 |
| High Impact Industry | 0.5 | 0.5 | 0.7 | 0.9 | 1.0 | 1.2 |
| Total | 1.5 | 1.6 | 1.8 | 2.0 | 2.1 | 2.4 |
| **Springfield Lakes SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 3.7 | 4.5 | 5.6 | 6.5 | 7.2 | 7.7 |
| Medium Impact Industry | 1.2 | 1.4 | 1.7 | 2.0 | 2.2 | 2.4 |
| High Impact Industry | 1.3 | 1.7 | 2.4 | 2.9 | 3.4 | 4.2 |
| Total | 6.2 | 7.6 | 9.7 | 11.4 | 12.8 | 14.3 |
| Ipswich City | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |

| | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
|---|---|---|---|---|---|---|
| Low Impact Industry | 116.8 | 121.4 | 134.2 | 150.6 | 168.9 | 190.2 |
| Medium Impact Industry | 149.9 | 153.3 | 166.1 | 185.0 | 208.2 | 236.2 |
| High Impact Industry | 150.4 | 153.8 | 167.0 | 186.8 | 213.8 | 242.9 |
| Total | 417.0 | 428.6 | 467.2 | 522.4 | 591.0 | 669.2 |

Source: QGSO (2018), NIEIR (2019) and CDM Smith analysis

### N.1.2 Net Industrial Land Demand Projections (ha), Scenario Two (Conservative) by SA2 and Activity Type, Ipswich City, 2016 to 2041

| | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
|---|---|---|---|---|---|---|
| **Rosewood SA2** | | | | | | |
| Low Impact Industry | 7.6 | 8.2 | 9.7 | 12.7 | 18.0 | 23.4 |
| Medium Impact Industry | 9.5 | 10.1 | 11.6 | 14.9 | 21.1 | 26.7 |
| High Impact Industry | 5.5 | 6.0 | 7.6 | 10.3 | 15.9 | 20.7 |
| Total | 22.6 | 24.3 | 28.9 | 37.9 | 55.0 | 70.7 |
| **Brassall SA2** | | | | | | |
| Low Impact Industry | 1.1 | 1.1 | 1.0 | 1.1 | 0.9 | 1.0 |
| Medium Impact Industry | 0.9 | 0.9 | 0.7 | 0.6 | 0.4 | 0.5 |
| High Impact Industry | 0.8 | 0.8 | 0.7 | 0.6 | 0.3 | 0.4 |
| Total | 2.7 | 2.8 | 2.5 | 2.3 | 1.7 | 1.8 |
| **Bundamba SA2** | | | | | | |
| Low Impact Industry | 10.2 | 10.6 | 11.5 | 13.1 | 14.9 | 16.5 |
| Medium Impact Industry | 12.9 | 13.6 | 15.6 | 19.1 | 23.5 | 27.6 |
| High Impact Industry | 8.9 | 9.4 | 10.9 | 13.4 | 16.3 | 19.0 |
| Total | 32.0 | 33.6 | 38.0 | 45.6 | 54.7 | 63.1 |
| **Churchill - Yamanto SA2** | | | | | | |
| Low Impact Industry | 6.5 | 7.4 | 10.5 | 13.2 | 16.8 | 21.2 |
| Medium Impact Industry | 6.3 | 6.8 | 8.3 | 11.1 | 14.8 | 19.5 |
| High Impact Industry | 10.7 | 11.2 | 13.1 | 16.8 | 22.0 | 29.7 |
| Total | 23.5 | 25.4 | 31.9 | 41.1 | 53.6 | 70.4 |
| **Ipswich - Central SA2** | | | | | | |
| Low Impact Industry | 6.9 | 7.6 | 8.8 | 11.2 | 14.6 | 18.8 |
| Medium Impact Industry | 6.5 | 7.3 | 9.8 | 13.1 | 17.7 | 24.0 |
| High Impact Industry | 7.9 | 8.7 | 11.2 | 14.3 | 18.5 | 23.1 |
| Total | 21.4 | 23.6 | 29.8 | 38.6 | 50.8 | 65.8 |
| **Ipswich - East SA2** | | | | | | |
| Low Impact Industry | 3.9 | 4.2 | 5.1 | 5.6 | 6.3 | 7.1 |
| Medium Impact Industry | 1.7 | 1.8 | 2.1 | 2.6 | 3.3 | 4.6 |
| High Impact Industry | 2.0 | 2.0 | 2.4 | 3.2 | 4.3 | 6.1 |

| | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
|---|---|---|---|---|---|---|
| Total | 7.7 | 8.0 | 9.6 | 11.5 | 13.9 | 17.8 |
| **Ipswich - North SA2** | | | | | | |
| Low Impact Industry | 0.8 | 0.7 | 0.7 | 0.7 | 0.7 | 0.9 |
| Medium Impact Industry | 0.5 | 0.5 | 0.5 | 0.6 | 0.7 | 0.7 |
| High Impact Industry | 0.8 | 0.8 | 0.8 | 0.8 | 0.9 | 0.8 |
| Total | 2.0 | 2.1 | 2.1 | 2.1 | 2.2 | 2.3 |
| **Karalee - Barellan Point SA2** | | | | | | |
| Low Impact Industry | 1.3 | 1.4 | 1.6 | 1.9 | 2.2 | 2.6 |
| Medium Impact Industry | 0.8 | 0.9 | 1.0 | 1.1 | 1.2 | 1.3 |
| High Impact Industry | 1.4 | 1.5 | 1.8 | 2.2 | 2.8 | 3.5 |
| Total | 3.5 | 3.8 | 4.5 | 5.3 | 6.2 | 7.4 |
| **Leichhardt - One Mile SA2** | | | | | | |
| Low Impact Industry | 5.5 | 5.6 | 6.1 | 7.0 | 8.6 | 10.2 |
| Medium Impact Industry | 8.4 | 8.7 | 9.7 | 11.7 | 15.1 | 18.4 |
| High Impact Industry | 9.9 | 10.2 | 11.2 | 13.4 | 17.5 | 19.6 |
| Total | 23.8 | 24.5 | 27.0 | 32.0 | 41.3 | 48.2 |
| **North Ipswich - Tivoli SA2** | | | | | | |
| Low Impact Industry | 3.1 | 3.2 | 3.8 | 3.5 | 3.4 | 3.3 |
| Medium Impact Industry | 2.2 | 2.1 | 1.8 | 1.9 | 1.8 | 2.0 |
| High Impact Industry | 0.9 | 0.9 | 0.7 | 0.8 | 0.8 | 1.0 |
| Total | 6.3 | 6.2 | 6.3 | 6.2 | 6.0 | 6.3 |
| **Raceview SA2** | | | | | | |
| Low Impact Industry | 3.2 | 3.1 | 3.1 | 3.2 | 3.5 | 3.4 |
| Medium Impact Industry | 2.9 | 2.9 | 3.1 | 3.2 | 2.7 | 3.2 |
| High Impact Industry | 1.5 | 1.6 | 1.7 | 1.8 | 1.1 | 1.6 |
| Total | 7.6 | 7.7 | 7.9 | 8.1 | 7.2 | 8.2 |
| **Ripley SA2** | | | | | | |
| Low Impact Industry | 3.0 | 4.0 | 7.3 | 13.4 | 19.4 | 27.6 |
| Medium Impact Industry | 2.4 | 2.7 | 3.2 | 4.5 | 5.8 | 7.8 |
| High Impact Industry | 2.9 | 3.4 | 4.9 | 7.4 | 10.2 | 13.6 |
| Total | 8.4 | 10.0 | 15.4 | 25.2 | 35.4 | 49.0 |
| **Riverview SA2** | | | | | | |
| Low Impact Industry | 10.0 | 10.3 | 10.9 | 11.8 | 13.1 | 14.4 |
| Medium Impact Industry | 14.9 | 15.5 | 17.1 | 19.3 | 22.1 | 24.6 |
| High Impact Industry | 35.7 | 37.0 | 40.5 | 45.6 | 52.7 | 59.0 |
| Total | 60.6 | 62.8 | 68.4 | 76.7 | 87.8 | 98.1 |
| **Bellbird Park - Brookwater SA2** | | | | | | |

| | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
|---|---|---|---|---|---|---|
| Low Impact Industry | 3.4 | 3.9 | 4.8 | 5.8 | 6.5 | 7.5 |
| Medium Impact Industry | 2.1 | 2.3 | 2.7 | 3.1 | 3.5 | 3.7 |
| High Impact Industry | 0.8 | 0.9 | 1.2 | 1.4 | 1.5 | 1.6 |
| Total | 6.2 | 7.1 | 8.7 | 10.3 | 11.5 | 12.8 |
| **Camira - Gailes SA2** | | | | | | |
| Low Impact Industry | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.4 |
| Medium Impact Industry | 0.9 | 0.8 | 0.7 | 0.7 | 0.6 | 0.5 |
| High Impact Industry | 0.9 | 0.8 | 0.8 | 0.7 | 0.6 | 0.5 |
| Total | 3.0 | 3.0 | 2.8 | 2.7 | 2.4 | 2.4 |
| **Carole Park SA2** | | | | | | |
| Low Impact Industry | 36.3 | 37.3 | 39.6 | 42.1 | 44.5 | 48.2 |
| Medium Impact Industry | 54.0 | 56.2 | 61.8 | 66.9 | 72.6 | 81.7 |
| High Impact Industry | 50.7 | 52.4 | 56.5 | 60.3 | 65.9 | 75.0 |
| Total | 141.0 | 145.9 | 157.9 | 169.2 | 183.0 | 204.9 |
| **Collingwood Park - Redbank SA2** | | | | | | |
| Low Impact Industry | 6.8 | 7.6 | 8.6 | 9.6 | 10.3 | 11.2 |
| Medium Impact Industry | 21.5 | 22.5 | 24.8 | 27.9 | 31.7 | 36.3 |
| High Impact Industry | 8.1 | 8.5 | 9.5 | 10.7 | 12.2 | 14.0 |
| Total | 36.4 | 38.6 | 42.9 | 48.2 | 54.2 | 61.5 |
| **Goodna SA2** | | | | | | |
| Low Impact Industry | 3.7 | 4.1 | 5.0 | 5.6 | 6.1 | 7.1 |
| Medium Impact Industry | 3.6 | 3.8 | 4.3 | 4.9 | 5.4 | 6.7 |
| High Impact Industry | 3.0 | 3.3 | 3.8 | 4.4 | 5.2 | 6.3 |
| Total | 10.3 | 11.2 | 13.1 | 14.8 | 16.7 | 20.1 |
| **New Chum SA2** | | | | | | |
| Low Impact Industry | 0.3 | 0.3 | 0.3 | 0.2 | 0.1 | 0.1 |
| Medium Impact Industry | 0.4 | 0.4 | 0.3 | 0.2 | 0.1 | 0.1 |
| High Impact Industry | 0.6 | 0.6 | 0.6 | 0.5 | 0.4 | 0.4 |
| Total | 1.3 | 1.2 | 1.2 | 1.0 | 0.7 | 0.6 |
| **Redbank Plains SA2** | | | | | | |
| Low Impact Industry | 1.5 | 1.5 | 1.4 | 1.2 | 1.1 | 0.8 |
| Medium Impact Industry | 1.4 | 1.4 | 1.4 | 1.3 | 1.1 | 0.6 |
| High Impact Industry | 0.9 | 0.9 | 0.8 | 0.8 | 0.7 | 0.4 |
| Total | 3.7 | 3.8 | 3.7 | 3.3 | 2.9 | 1.9 |
| **Springfield SA2** | | | | | | |
| Low Impact Industry | 0.7 | 0.7 | 0.7 | 0.7 | 0.6 | 0.7 |
| Medium Impact Industry | 0.4 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 |
| High Impact Industry | 0.5 | 0.6 | 0.8 | 1.0 | 1.2 | 1.5 |

| | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
|---|---|---|---|---|---|---|
| Total | 1.6 | 1.7 | 2.0 | 2.3 | 2.5 | 3.0 |
| **Springfield Lakes SA2** | | | | | | |
| Low Impact Industry | 3.9 | 4.8 | 6.2 | 7.5 | 8.6 | 9.6 |
| Medium Impact Industry | 1.2 | 1.5 | 1.9 | 2.3 | 2.6 | 3.0 |
| High Impact Industry | 1.3 | 1.8 | 2.6 | 3.4 | 4.1 | 5.2 |
| Total | 6.4 | 8.1 | 10.7 | 13.1 | 15.3 | 17.8 |
| **Ipswich City** | | | | | | |
| Low Impact Industry | 121.0 | 129.0 | 147.9 | 172.2 | 201.4 | 237.1 |
| Medium Impact Industry | 155.3 | 162.9 | 183.1 | 211.6 | 248.4 | 294.3 |
| High Impact Industry | 155.8 | 163.4 | 184.1 | 213.6 | 255.1 | 302.7 |
| Total | 432.1 | 455.2 | 515.2 | 597.4 | 704.9 | 834.1 |

### N.1.3 Net Industrial Land Demand Projections (ha), Scenario Two (Optimistic), by SA2 and Activity Type, Ipswich City, 2016 to 2041

| | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
|---|---|---|---|---|---|---|
| **Rosewood SA2** | | | | | | |
| Low Impact Industry | 7.7 | 8.4 | 10.2 | 13.6 | 19.8 | 26.4 |
| Medium Impact Industry | 9.6 | 10.3 | 12.2 | 16.0 | 23.2 | 30.1 |
| High Impact Industry | 5.5 | 6.2 | 7.9 | 11.1 | 17.6 | 23.3 |
| Total | 22.9 | 24.9 | 30.3 | 40.8 | 60.6 | 79.8 |
| **Brassall SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 1.1 | 1.1 | 1.1 | 1.1 | 1.0 | 1.2 |
| Medium Impact Industry | 0.9 | 0.9 | 0.8 | 0.7 | 0.4 | 0.5 |
| High Impact Industry | 0.8 | 0.8 | 0.7 | 0.6 | 0.4 | 0.4 |
| Total | 2.8 | 2.8 | 2.6 | 2.4 | 1.8 | 2.1 |
| **Bundamba SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 10.4 | 10.9 | 12.0 | 14.1 | 16.4 | 18.6 |
| Medium Impact Industry | 13.1 | 13.9 | 16.3 | 20.6 | 25.8 | 31.1 |
| High Impact Industry | 9.0 | 9.7 | 11.5 | 14.4 | 18.0 | 21.4 |
| Total | 32.5 | 34.4 | 39.9 | 49.0 | 60.2 | 71.1 |
| **Churchill - Yamanto SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 6.6 | 7.6 | 11.0 | 14.2 | 18.5 | 23.9 |
| Medium Impact Industry | 6.4 | 7.0 | 8.7 | 12.0 | 16.3 | 22.0 |
| High Impact Industry | 10.9 | 11.5 | 13.7 | 18.0 | 24.2 | 33.5 |
| Total | 23.9 | 26.0 | 33.4 | 44.2 | 59.0 | 79.4 |
| **Ipswich - Central SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 7.0 | 7.8 | 9.2 | 12.1 | 16.1 | 21.2 |

| | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
|---|---|---|---|---|---|---|
| Medium Impact Industry | 6.6 | 7.4 | 10.3 | 14.1 | 19.5 | 27.0 |
| High Impact Industry | 8.1 | 9.0 | 11.8 | 15.3 | 20.3 | 26.0 |
| Total | 21.7 | 24.2 | 31.3 | 41.5 | 55.9 | 74.3 |
| **Ipswich - East SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 4.0 | 4.3 | 5.4 | 6.0 | 6.9 | 8.0 |
| Medium Impact Industry | 1.8 | 1.8 | 2.2 | 2.8 | 3.7 | 5.2 |
| High Impact Industry | 2.0 | 2.1 | 2.5 | 3.5 | 4.7 | 6.9 |
| Total | 7.8 | 8.2 | 10.1 | 12.3 | 15.3 | 20.1 |
| **Ipswich - North SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 1.0 |
| Medium Impact Industry | 0.5 | 0.5 | 0.6 | 0.6 | 0.7 | 0.8 |
| High Impact Industry | 0.8 | 0.8 | 0.8 | 0.9 | 1.0 | 0.9 |
| Total | 2.1 | 2.1 | 2.2 | 2.2 | 2.4 | 2.6 |
| **Karalee - Barellan Point SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 1.3 | 1.4 | 1.7 | 2.1 | 2.4 | 2.9 |
| Medium Impact Industry | 0.8 | 0.9 | 1.0 | 1.2 | 1.3 | 1.5 |
| High Impact Industry | 1.4 | 1.6 | 1.9 | 2.4 | 3.1 | 3.9 |
| Total | 3.5 | 3.9 | 4.7 | 5.7 | 6.8 | 8.3 |
| **Leichhardt - One Mile SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 5.6 | 5.8 | 6.4 | 7.5 | 9.5 | 11.5 |
| Medium Impact Industry | 8.5 | 8.9 | 10.2 | 12.5 | 16.7 | 20.8 |
| High Impact Industry | 10.0 | 10.4 | 11.8 | 14.4 | 19.3 | 22.1 |
| Total | 24.1 | 25.1 | 28.4 | 34.4 | 45.4 | 54.4 |
| **North Ipswich - Tivoli SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 3.2 | 3.3 | 4.0 | 3.8 | 3.8 | 3.7 |
| Medium Impact Industry | 2.2 | 2.2 | 1.9 | 2.0 | 1.9 | 2.3 |
| High Impact Industry | 0.9 | 0.9 | 0.8 | 0.9 | 0.9 | 1.1 |
| Total | 6.3 | 6.3 | 6.7 | 6.6 | 6.6 | 7.1 |
| **Raceview SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 3.2 | 3.2 | 3.2 | 3.4 | 3.8 | 3.9 |
| Medium Impact Industry | 3.0 | 3.0 | 3.2 | 3.4 | 3.0 | 3.6 |
| High Impact Industry | 1.6 | 1.6 | 1.8 | 1.9 | 1.2 | 1.8 |
| Total | 7.8 | 7.8 | 8.3 | 8.7 | 8.0 | 9.3 |
| **Ripley SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 3.1 | 4.1 | 7.6 | 14.4 | 21.4 | 31.2 |
| Medium Impact Industry | 2.5 | 2.7 | 3.4 | 4.8 | 6.4 | 8.8 |
| High Impact Industry | 3.0 | 3.5 | 5.1 | 7.9 | 11.2 | 15.3 |
| Total | 8.5 | 10.3 | 16.1 | 27.1 | 39.0 | 55.2 |

| | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
|---|---|---|---|---|---|---|
| **Riverview SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 10.1 | 10.5 | 11.4 | 12.7 | 14.4 | 16.2 |
| Medium Impact Industry | 15.1 | 15.9 | 17.9 | 20.7 | 24.4 | 27.8 |
| High Impact Industry | 36.2 | 37.9 | 42.5 | 49.1 | 58.0 | 66.6 |
| Total | 61.5 | 64.3 | 71.8 | 82.5 | 96.7 | 110.6 |
| **Bellbird Park - Brookwater SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 3.4 | 4.0 | 5.0 | 6.2 | 7.1 | 8.4 |
| Medium Impact Industry | 2.1 | 2.3 | 2.9 | 3.4 | 3.8 | 4.1 |
| High Impact Industry | 0.8 | 1.0 | 1.2 | 1.5 | 1.7 | 1.8 |
| Total | 6.3 | 7.3 | 9.1 | 11.0 | 12.6 | 14.4 |
| **Camira - Gailes SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 1.3 | 1.3 | 1.4 | 1.4 | 1.4 | 1.6 |
| Medium Impact Industry | 0.9 | 0.8 | 0.8 | 0.7 | 0.6 | 0.6 |
| High Impact Industry | 0.9 | 0.9 | 0.8 | 0.7 | 0.7 | 0.5 |
| Total | 3.1 | 3.0 | 3.0 | 2.9 | 2.7 | 2.7 |
| **Carole Park SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 36.8 | 38.2 | 41.5 | 45.2 | 49.0 | 54.4 |
| Medium Impact Industry | 54.8 | 57.6 | 64.8 | 71.9 | 79.9 | 92.2 |
| High Impact Industry | 51.5 | 53.6 | 59.3 | 64.8 | 72.6 | 84.6 |
| Total | 143.1 | 149.5 | 165.7 | 181.9 | 201.5 | 231.2 |
| **Collingwood Park - Redbank SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 6.9 | 7.8 | 9.0 | 10.3 | 11.4 | 12.6 |
| Medium Impact Industry | 21.8 | 23.0 | 26.1 | 30.0 | 34.9 | 41.0 |
| High Impact Industry | 8.2 | 8.7 | 9.9 | 11.5 | 13.4 | 15.8 |
| Total | 37.0 | 39.6 | 45.0 | 51.8 | 59.7 | 69.4 |
| **Goodna SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 3.7 | 4.2 | 5.3 | 6.0 | 6.7 | 8.0 |
| Medium Impact Industry | 3.6 | 3.9 | 4.5 | 5.2 | 6.0 | 7.5 |
| High Impact Industry | 3.1 | 3.4 | 4.0 | 4.7 | 5.7 | 7.1 |
| Total | 10.4 | 11.5 | 13.8 | 15.9 | 18.4 | 22.6 |
| **New Chum SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 0.3 | 0.3 | 0.3 | 0.2 | 0.1 | 0.1 |
| Medium Impact Industry | 0.4 | 0.4 | 0.3 | 0.3 | 0.1 | 0.1 |
| High Impact Industry | 0.6 | 0.6 | 0.6 | 0.6 | 0.5 | 0.4 |
| Total | 1.3 | 1.3 | 1.2 | 1.0 | 0.8 | 0.7 |
| **Redbank Plains SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 1.5 | 1.6 | 1.5 | 1.3 | 1.2 | 0.9 |
| Medium Impact Industry | 1.4 | 1.5 | 1.5 | 1.4 | 1.2 | 0.7 |

| | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
|---|---|---|---|---|---|---|
| High Impact Industry | 0.9 | 0.9 | 0.9 | 0.8 | 0.8 | 0.5 |
| Total | 3.8 | 3.9 | 3.8 | 3.6 | 3.1 | 2.1 |
| **Springfield SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 0.7 | 0.7 | 0.8 | 0.7 | 0.7 | 0.8 |
| Medium Impact Industry | 0.4 | 0.4 | 0.5 | 0.6 | 0.7 | 0.9 |
| High Impact Industry | 0.5 | 0.6 | 0.8 | 1.1 | 1.3 | 1.7 |
| Total | 1.6 | 1.7 | 2.1 | 2.5 | 2.8 | 3.4 |
| **Springfield Lakes SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 3.9 | 4.9 | 6.5 | 8.0 | 9.4 | 10.8 |
| Medium Impact Industry | 1.2 | 1.5 | 2.0 | 2.4 | 2.9 | 3.4 |
| High Impact Industry | 1.4 | 1.8 | 2.7 | 3.6 | 4.5 | 5.9 |
| Total | 6.5 | 8.3 | 11.2 | 14.0 | 16.8 | 20.1 |
| **Ipswich City** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 122.8 | 132.1 | 155.2 | 185.1 | 221.8 | 267.4 |
| Medium Impact Industry | 157.5 | 166.8 | 192.2 | 227.4 | 273.5 | 332.0 |
| High Impact Industry | 158.1 | 167.4 | 193.2 | 229.6 | 280.9 | 341.5 |
| Total | 438.4 | 466.3 | 540.6 | 642.1 | 776.2 | 940.9 |

Source: QGSO (2018), NIEIR (2019) and CDM Smith analysis

### N.1.4 Net Industrial Land Demand Projections (ha), Scenario Three, by SA2 and Activity Type, Ipswich City, 2016 to 2041

| | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
|---|---|---|---|---|---|---|
| **Rosewood SA2** | | | | | | |
| Low Impact Industry | 7.3 | 8.2 | 10.0 | 13.7 | 20.1 | 26.3 |
| Medium Impact Industry | 9.2 | 10.3 | 12.6 | 17.6 | 26.6 | 34.9 |
| High Impact Industry | 5.3 | 6.2 | 8.4 | 12.6 | 21.1 | 29.2 |
| Total | 21.8 | 24.7 | 31.1 | 43.9 | 67.8 | 90.3 |
| **Brassall SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 1.0 | 1.1 | 1.1 | 1.1 | 1.0 | 1.1 |
| Medium Impact Industry | 0.8 | 0.9 | 0.9 | 0.8 | 0.5 | 0.7 |
| High Impact Industry | 0.8 | 0.8 | 0.8 | 0.7 | 0.4 | 0.5 |
| Total | 2.6 | 2.8 | 2.7 | 2.6 | 2.0 | 2.2 |
| **Bundamba SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 9.9 | 11.2 | 12.8 | 15.7 | 18.8 | 21.5 |
| Medium Impact Industry | 12.5 | 13.9 | 17.2 | 22.9 | 30.0 | 36.9 |
| High Impact Industry | 8.6 | 9.5 | 11.5 | 15.1 | 19.6 | 23.9 |

| | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
|---|---|---|---|---|---|---|
| Total | 30.9 | 34.6 | 41.5 | 53.8 | 68.4 | 82.3 |
| **Churchill - Yamanto SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 6.3 | 7.7 | 11.7 | 15.5 | 20.5 | 26.6 |
| Medium Impact Industry | 6.1 | 6.9 | 9.0 | 12.9 | 18.2 | 24.9 |
| High Impact Industry | 10.3 | 11.5 | 14.1 | 19.6 | 27.4 | 38.8 |
| Total | 22.7 | 26.1 | 34.8 | 48.0 | 66.1 | 90.2 |
| **Ipswich - Central SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 6.7 | 7.7 | 9.1 | 12.1 | 16.3 | 21.6 |
| Medium Impact Industry | 6.3 | 7.6 | 11.2 | 16.2 | 23.1 | 32.5 |
| High Impact Industry | 7.7 | 8.1 | 10.2 | 13.0 | 17.2 | 22.5 |
| Total | 20.6 | 23.4 | 30.4 | 41.3 | 56.5 | 76.7 |
| **Ipswich - East SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 3.8 | 4.3 | 5.4 | 6.3 | 7.2 | 8.5 |
| Medium Impact Industry | 1.7 | 1.8 | 2.2 | 3.0 | 4.0 | 5.8 |
| High Impact Industry | 1.9 | 2.0 | 2.5 | 3.6 | 5.1 | 7.6 |
| Total | 7.4 | 8.1 | 10.2 | 12.9 | 16.3 | 22.0 |
| **Ipswich - North SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 0.7 | 0.7 | 0.8 | 0.7 | 0.7 | 1.0 |
| Medium Impact Industry | 0.5 | 0.5 | 0.6 | 0.7 | 0.9 | 1.0 |
| High Impact Industry | 0.7 | 0.7 | 0.7 | 0.7 | 0.8 | 0.9 |
| Total | 2.0 | 2.0 | 2.1 | 2.2 | 2.4 | 2.8 |
| **Karalee - Barellan Point SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 1.2 | 1.4 | 1.7 | 2.1 | 2.4 | 2.8 |
| Medium Impact Industry | 0.8 | 0.9 | 1.2 | 1.4 | 1.6 | 1.9 |
| High Impact Industry | 1.3 | 1.4 | 1.5 | 1.7 | 1.9 | 2.2 |
| Total | 3.3 | 3.7 | 4.4 | 5.2 | 5.9 | 6.9 |
| **Leichhardt - One Mile SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 5.3 | 5.8 | 6.6 | 8.1 | 10.6 | 13.1 |
| Medium Impact Industry | 8.1 | 8.9 | 10.6 | 13.8 | 19.2 | 24.4 |
| High Impact Industry | 9.6 | 10.2 | 11.8 | 15.0 | 20.6 | 25.2 |
| Total | 22.9 | 24.9 | 29.0 | 36.9 | 50.4 | 62.8 |

| | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
|---|---|---|---|---|---|---|
| **North Ipswich - Tivoli SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 3.0 | 3.4 | 4.2 | 4.1 | 4.2 | 4.1 |
| Medium Impact Industry | 2.1 | 2.2 | 2.0 | 2.3 | 2.3 | 2.7 |
| High Impact Industry | 0.9 | 0.9 | 0.8 | 1.0 | 1.0 | 1.3 |
| Total | 6.0 | 6.5 | 7.1 | 7.4 | 7.5 | 8.2 |
| Raceview SA2 | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 3.1 | 3.2 | 3.3 | 3.6 | 4.1 | 4.2 |
| Medium Impact Industry | 2.8 | 2.8 | 3.0 | 3.2 | 3.3 | 3.6 |
| High Impact Industry | 1.5 | 1.4 | 1.5 | 1.5 | 1.2 | 1.4 |
| Total | 7.4 | 7.4 | 7.7 | 8.3 | 8.6 | 9.2 |
| **Ripley SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 2.9 | 3.9 | 7.0 | 12.7 | 18.0 | 25.1 |
| Medium Impact Industry | 2.4 | 2.5 | 3.1 | 4.7 | 6.7 | 9.6 |
| High Impact Industry | 2.8 | 3.2 | 4.5 | 7.3 | 10.6 | 15.0 |
| Total | 8.1 | 9.6 | 14.6 | 24.6 | 35.3 | 49.7 |
| **Riverview SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 9.6 | 10.7 | 12.1 | 14.2 | 16.6 | 19.1 |
| Medium Impact Industry | 14.4 | 15.8 | 18.5 | 22.7 | 27.8 | 32.4 |
| High Impact Industry | 34.5 | 37.7 | 43.9 | 53.6 | 66.0 | 77.4 |
| Total | 58.5 | 64.2 | 74.5 | 90.4 | 110.4 | 128.9 |
| **Bellbird Park - Brookwater SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 3.2 | 3.8 | 4.6 | 5.5 | 6.1 | 6.8 |
| Medium Impact Industry | 2.0 | 2.2 | 2.7 | 3.2 | 3.6 | 3.8 |
| High Impact Industry | 0.8 | 0.9 | 1.2 | 1.4 | 1.7 | 1.8 |
| Total | 6.0 | 6.9 | 8.5 | 10.2 | 11.3 | 12.4 |
| **Camira - Gailes SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| Medium Impact Industry | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.7 |
| High Impact Industry | 0.8 | 0.9 | 0.9 | 0.8 | 0.8 | 0.6 |
| Total | 2.9 | 3.0 | 3.0 | 3.0 | 2.8 | 2.6 |
| **Carole Park SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 35.0 | 39.1 | 44.2 | 50.7 | 56.7 | 63.8 |

| | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
|---|---|---|---|---|---|---|
| Medium Impact Industry | 52.1 | 57.5 | 67.3 | 79.1 | 91.7 | 108.0 |
| High Impact Industry | 49.0 | 53.4 | 61.2 | 70.6 | 82.3 | 97.9 |
| Total | 136.1 | 150.0 | 172.8 | 200.4 | 230.7 | 269.8 |
| **Collingwood Park - Redbank SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 6.6 | 7.5 | 8.5 | 9.6 | 10.6 | 11.8 |
| Medium Impact Industry | 20.8 | 24.5 | 30.8 | 39.0 | 47.9 | 58.0 |
| High Impact Industry | 7.8 | 9.2 | 11.5 | 14.5 | 17.8 | 21.6 |
| Total | 35.2 | 41.2 | 50.7 | 63.1 | 76.3 | 91.4 |
| **Goodna SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 3.6 | 4.1 | 5.3 | 6.1 | 6.8 | 8.2 |
| Medium Impact Industry | 3.4 | 4.0 | 4.8 | 5.9 | 7.0 | 9.0 |
| High Impact Industry | 2.9 | 3.3 | 3.8 | 4.6 | 5.5 | 7.0 |
| Total | 9.9 | 11.3 | 13.8 | 16.5 | 19.3 | 24.2 |
| **New Chum SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 |
| Medium Impact Industry | 0.4 | 0.4 | 0.4 | 0.3 | 0.2 | 0.2 |
| High Impact Industry | 0.6 | 0.5 | 0.5 | 0.5 | 0.3 | 0.3 |
| Total | 1.3 | 1.2 | 1.2 | 1.0 | 0.7 | 0.6 |
| **Redbank Plains SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 1.4 | 1.5 | 1.5 | 1.3 | 1.2 | 0.9 |
| Medium Impact Industry | 1.3 | 1.5 | 1.7 | 1.8 | 1.6 | 0.9 |
| High Impact Industry | 0.8 | 0.9 | 0.8 | 0.8 | 0.7 | 0.4 |
| Total | 3.6 | 3.9 | 4.0 | 3.9 | 3.5 | 2.2 |
| **Springfield SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 0.7 | 0.7 | 0.8 | 0.8 | 0.7 | 0.9 |
| Medium Impact Industry | 0.3 | 0.4 | 0.5 | 0.7 | 0.8 | 1.0 |
| High Impact Industry | 0.5 | 0.6 | 0.9 | 1.2 | 1.5 | 1.9 |
| Total | 1.5 | 1.7 | 2.1 | 2.7 | 3.1 | 3.9 |
| **Springfield Lakes SA2** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 3.7 | 4.7 | 6.0 | 7.3 | 8.5 | 9.6 |
| Medium Impact Industry | 1.2 | 1.5 | 2.1 | 2.6 | 3.2 | 4.0 |
| High Impact Industry | 1.3 | 1.8 | 2.8 | 4.0 | 5.2 | 6.9 |
| Total | 6.2 | 8.0 | 10.9 | 13.9 | 16.9 | 20.5 |

| | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
|---|---|---|---|---|---|---|
| **Ipswich City** | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Low Impact Industry | 116.8 | 132.3 | 158.1 | 192.6 | 232.6 | 278.5 |
| Medium Impact Industry | 149.9 | 168.0 | 203.1 | 255.7 | 320.8 | 396.9 |
| High Impact Industry | 150.4 | 165.0 | 195.9 | 243.7 | 308.8 | 384.4 |
| Total | 417.0 | 465.4 | 557.1 | 692.0 | 862.1 | 1,059.9 |

Source: QGSO (2018), NIEIR (2019) and CDM Smith analysis

# Appendix O Incremental Industrial Land Demand

### O.1.1 Incremental Low Impact Industrial Land Demand (on 2020 levels), SA2, 2021 to 2041

| | 2021 | 2026 | 2031 | 2036 | 2041 |
|---|---|---|---|---|---|
| **Scenario One** | | | | | |
| Rosewood | 0.2 | 1.3 | 3.6 | 7.6 | 11.2 |
| Brassall | 0.0 | -0.1 | -0.1 | -0.2 | -0.2 |
| Bundamba | 0.1 | 0.5 | 1.5 | 2.6 | 3.3 |
| Churchill - Yamanto | 0.3 | 2.9 | 4.9 | 7.5 | 10.4 |
| Ipswich - Central | 0.2 | 1.0 | 2.9 | 5.3 | 8.2 |
| Ipswich - East | 0.1 | 0.8 | 1.0 | 1.4 | 1.9 |
| Ipswich - North | 0.0 | -0.1 | -0.1 | -0.2 | 0.0 |
| Karalee - Barellan Point | 0.0 | 0.2 | 0.4 | 0.6 | 0.8 |
| Leichhardt - One Mile | 0.0 | 0.2 | 0.8 | 1.9 | 2.9 |
| North Ipswich - Tivoli | 0.0 | 0.4 | 0.1 | -0.2 | -0.4 |
| Raceview | -0.1 | -0.2 | -0.2 | -0.1 | -0.3 |
| Ripley | 0.4 | 3.3 | 8.4 | 13.0 | 18.9 |
| Riverview | 0.0 | 0.2 | 0.7 | 1.3 | 1.9 |
| Bellbird Park - Brookwater | 0.2 | 0.9 | 1.6 | 2.0 | 2.6 |
| Camira - Gailes | 0.0 | -0.1 | -0.1 | -0.2 | -0.1 |
| Carole Park | 0.1 | 0.8 | 1.7 | 2.2 | 3.6 |
| Collingwood Park - Redbank | 0.3 | 0.9 | 1.5 | 1.8 | 2.1 |
| Goodna | 0.1 | 0.9 | 1.2 | 1.4 | 2.0 |
| New Chum | 0.0 | -0.1 | -0.1 | -0.2 | -0.2 |
| Redbank Plains | 0.0 | -0.1 | -0.4 | -0.6 | -0.8 |
| Springfield | 0.0 | 0.0 | -0.1 | -0.1 | -0.1 |
| Springfield Lakes | 0.4 | 1.5 | 2.4 | 3.1 | 3.6 |
| **Scenario Two (Conservative)** | | | | | |
| Rosewood | 0.3 | 1.8 | 4.8 | 10.1 | 15.5 |
| Brassall | 0.0 | 0.0 | 0.0 | -0.1 | -0.1 |
| Bundamba | 0.2 | 1.0 | 2.7 | 4.5 | 6.0 |
| Churchill - Yamanto | 0.4 | 3.5 | 6.3 | 9.9 | 14.2 |
| Ipswich - Central | 0.3 | 1.5 | 3.9 | 7.4 | 11.5 |
| Ipswich - East | 0.1 | 1.1 | 1.6 | 2.2 | 3.1 |
| Ipswich - North | 0.0 | 0.0 | -0.1 | -0.1 | 0.1 |
| Karalee - Barellan Point | 0.1 | 0.3 | 0.6 | 0.9 | 1.3 |
| Leichhardt - One Mile | 0.1 | 0.5 | 1.4 | 3.1 | 4.7 |
| North Ipswich - Tivoli | 0.0 | 0.6 | 0.3 | 0.3 | 0.1 |
| Raceview | 0.0 | -0.1 | 0.0 | 0.3 | 0.3 |
| Ripley | 0.5 | 3.8 | 9.9 | 15.9 | 24.1 |
| Riverview | 0.1 | 0.7 | 1.7 | 2.9 | 4.3 |

| | 2021 | 2026 | 2031 | 2036 | 2041 |
|---|---|---|---|---|---|
| Bellbird Park - Brookwater | 0.3 | 1.2 | 2.1 | 2.9 | 3.9 |
| Camira - Gailes | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 |
| Carole Park | 0.5 | 2.8 | 5.3 | 7.7 | 11.4 |
| Collingwood Park - Redbank | 0.4 | 1.4 | 2.3 | 3.1 | 4.0 |
| Goodna | 0.2 | 1.2 | 1.7 | 2.2 | 3.2 |
| New Chum | 0.0 | -0.1 | -0.1 | -0.2 | -0.2 |
| Redbank Plains | 0.0 | -0.1 | -0.3 | -0.5 | -0.7 |
| Springfield | 0.0 | 0.0 | 0.0 | -0.1 | 0.0 |
| Springfield Lakes | 0.5 | 1.9 | 3.1 | 4.3 | 5.3 |
| **Scenario Two (Optimistic)** | | | | | |
| Rosewood | 0.3 | 2.1 | 5.6 | 11.8 | 18.3 |
| Brassall | 0.0 | 0.0 | 0.0 | -0.1 | 0.1 |
| Bundamba | 0.3 | 1.4 | 3.5 | 5.8 | 8.0 |
| Churchill - Yamanto | 0.5 | 3.9 | 7.1 | 11.4 | 16.8 |
| Ipswich - Central | 0.4 | 1.8 | 4.6 | 8.7 | 13.8 |
| Ipswich - East | 0.1 | 1.2 | 1.9 | 2.8 | 3.9 |
| Ipswich - North | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 |
| Karalee - Barellan Point | 0.1 | 0.3 | 0.7 | 1.1 | 1.6 |
| Leichhardt - One Mile | 0.1 | 0.7 | 1.8 | 3.8 | 5.9 |
| North Ipswich - Tivoli | 0.0 | 0.8 | 0.5 | 0.5 | 0.5 |
| Raceview | 0.0 | 0.0 | 0.2 | 0.6 | 0.6 |
| Ripley | 0.5 | 4.1 | 10.8 | 17.8 | 27.6 |
| Riverview | 0.2 | 1.1 | 2.4 | 4.1 | 5.9 |
| Bellbird Park - Brookwater | 0.3 | 1.4 | 2.5 | 3.5 | 4.8 |
| Camira - Gailes | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 |
| Carole Park | 0.7 | 4.0 | 7.7 | 11.5 | 16.9 |
| Collingwood Park - Redbank | 0.4 | 1.7 | 2.9 | 4.0 | 5.3 |
| Goodna | 0.2 | 1.3 | 2.0 | 2.8 | 4.1 |
| New Chum | 0.0 | -0.1 | -0.1 | -0.2 | -0.2 |
| Redbank Plains | 0.0 | 0.0 | -0.2 | -0.4 | -0.6 |
| Springfield | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 |
| Springfield Lakes | 0.5 | 2.1 | 3.6 | 5.0 | 6.4 |
| **Scenario Three** | | | | | |
| Rosewood | 0.0 | 0.0 | 0.1 | -0.1 | 0.0 |
| Brassall | 0.7 | 2.3 | 5.2 | 8.3 | 11.0 |
| Bundamba | 0.7 | 4.7 | 8.5 | 13.5 | 19.6 |
| Churchill - Yamanto | 0.5 | 1.9 | 4.9 | 9.1 | 14.4 |
| Ipswich - Central | 0.2 | 1.4 | 2.2 | 3.2 | 4.5 |

| | 2021 | 2026 | 2031 | 2036 | 2041 |
|---|---|---|---|---|---|
| Ipswich - East | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 |
| Ipswich - North | 0.1 | 0.4 | 0.8 | 1.0 | 1.5 |
| Karalee - Barellan Point | 0.3 | 1.1 | 2.6 | 5.1 | 7.6 |
| Leichhardt - One Mile | 0.2 | 1.0 | 0.9 | 1.0 | 1.0 |
| North Ipswich - Tivoli | 0.1 | 0.2 | 0.5 | 1.0 | 1.1 |
| Raceview | 0.5 | 3.6 | 9.3 | 14.6 | 21.7 |
| Ripley | 0.6 | 1.9 | 4.0 | 6.4 | 8.9 |
| Riverview | 0.3 | 1.1 | 2.0 | 2.6 | 3.3 |
| Bellbird Park - Brookwater | 0.0 | 0.0 | 0.1 | 0.0 | 0.1 |
| Camira - Gailes | 2.1 | 7.2 | 13.7 | 19.7 | 26.8 |
| Carole Park | 0.4 | 1.4 | 2.6 | 3.6 | 4.7 |
| Collingwood Park - Redbank | 0.3 | 1.4 | 2.2 | 3.0 | 4.3 |
| Goodna | 0.0 | 0.0 | -0.1 | -0.2 | -0.2 |
| New Chum | 0.0 | 0.0 | -0.2 | -0.3 | -0.6 |
| Redbank Plains | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 |
| Springfield | 0.5 | 1.8 | 3.1 | 4.3 | 5.4 |
| Springfield Lakes | 0.0 | 0.0 | 0.1 | -0.1 | 0.0 |

### O.1.2 Incremental Medium/High Impact Industrial Land Demand (on 2020 levels), SA2, 2021 to 2041

| | 2021 | 2026 | 2031 | 2036 | 2041 |
|---|---|---|---|---|---|
| **Scenario One** | | | | | |
| Rosewood | 0.3 | 2.6 | 7.3 | 16.3 | 23.2 |
| Brassall | 0.0 | -0.3 | -0.5 | -1.0 | -0.9 |
| Bundamba | 0.3 | 2.7 | 7.1 | 12.0 | 16.0 |
| Churchill - Yamanto | 0.3 | 2.7 | 7.7 | 14.1 | 22.8 |
| Ipswich - Central | 0.6 | 4.6 | 9.5 | 15.8 | 23.3 |
| Ipswich - East | 0.0 | 0.5 | 1.5 | 2.8 | 5.0 |
| Ipswich - North | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Karalee - Barellan Point | 0.1 | 0.4 | 0.7 | 1.2 | 1.6 |
| Leichhardt - One Mile | 0.0 | 1.3 | 4.2 | 9.7 | 12.8 |
| North Ipswich - Tivoli | -0.1 | -0.6 | -0.6 | -0.8 | -0.5 |
| Raceview | 0.0 | 0.0 | 0.0 | -1.1 | -0.4 |
| Ripley | 0.3 | 1.9 | 4.9 | 8.0 | 11.7 |
| Riverview | 0.3 | 3.1 | 7.6 | 13.5 | 18.0 |
| Bellbird Park - Brookwater | 0.1 | 0.6 | 1.0 | 1.3 | 1.3 |
| Camira - Gailes | -0.1 | -0.2 | -0.4 | -0.6 | -0.8 |
| Carole Park | 0.6 | 5.7 | 9.6 | 14.4 | 24.1 |

| | 2021 | 2026 | 2031 | 2036 | 2041 |
|---|---|---|---|---|---|
| Collingwood Park - Redbank | 0.3 | 2.2 | 4.9 | 7.9 | 11.5 |
| Goodna | 0.2 | 0.8 | 1.5 | 2.3 | 3.9 |
| New Chum | 0.0 | -0.1 | -0.2 | -0.4 | -0.5 |
| Redbank Plains | 0.0 | -0.1 | -0.3 | -0.6 | -1.3 |
| Springfield | 0.0 | 0.3 | 0.6 | 0.7 | 1.0 |
| Springfield Lakes | 0.3 | 1.3 | 2.1 | 2.9 | 3.9 |
| **Scenario Two (Conservative)** | | | | | |
| Rosewood | 0.6 | 3.7 | 9.7 | 21.5 | 31.9 |
| Brassall | 0.0 | -0.2 | -0.5 | -0.9 | -0.8 |
| Bundamba | 0.6 | 4.1 | 10.1 | 17.4 | 24.2 |
| Churchill - Yamanto | 0.5 | 3.9 | 10.4 | 19.3 | 31.7 |
| Ipswich - Central | 0.8 | 5.9 | 12.2 | 21.0 | 31.9 |
| Ipswich - East | 0.0 | 0.7 | 2.1 | 3.9 | 6.9 |
| Ipswich - North | 0.0 | 0.0 | 0.1 | 0.2 | 0.2 |
| Karalee - Barellan Point | 0.1 | 0.5 | 1.0 | 1.7 | 2.5 |
| Leichhardt - One Mile | 0.3 | 2.4 | 6.5 | 14.1 | 19.4 |
| North Ipswich - Tivoli | -0.1 | -0.5 | -0.4 | -0.5 | -0.1 |
| Raceview | 0.0 | 0.3 | 0.4 | -0.7 | 0.3 |
| Ripley | 0.4 | 2.4 | 6.1 | 10.3 | 15.6 |
| Riverview | 0.9 | 6.0 | 13.3 | 23.2 | 32.1 |
| Bellbird Park - Brookwater | 0.2 | 0.8 | 1.5 | 1.9 | 2.3 |
| Camira - Gailes | 0.0 | -0.1 | -0.3 | -0.5 | -0.7 |
| Carole Park | 1.9 | 11.7 | 20.5 | 31.8 | 50.1 |
| Collingwood Park - Redbank | 0.7 | 4.0 | 8.3 | 13.6 | 20.0 |
| Goodna | 0.3 | 1.2 | 2.4 | 3.7 | 6.1 |
| New Chum | 0.0 | -0.1 | -0.2 | -0.4 | -0.5 |
| Redbank Plains | 0.0 | 0.0 | -0.1 | -0.5 | -1.2 |
| Springfield | 0.1 | 0.4 | 0.7 | 1.0 | 1.4 |
| Springfield Lakes | 0.4 | 1.6 | 2.7 | 3.8 | 5.3 |
| **Scenario Two (Optimistic)** | | | | | |
| Rosewood | 0.7 | 4.3 | 11.3 | 25.0 | 37.6 |
| Brassall | 0.0 | -0.2 | -0.4 | -0.9 | -0.8 |
| Bundamba | 0.7 | 5.0 | 12.1 | 21.0 | 29.7 |
| Churchill - Yamanto | 0.6 | 4.6 | 12.1 | 22.6 | 37.6 |
| Ipswich - Central | 0.9 | 6.6 | 14.0 | 24.3 | 37.6 |
| Ipswich - East | 0.1 | 0.9 | 2.5 | 4.5 | 8.2 |
| Ipswich - North | 0.0 | 0.1 | 0.2 | 0.4 | 0.3 |
| Karalee - Barellan Point | 0.1 | 0.6 | 1.2 | 2.1 | 3.0 |

| | 2021 | 2026 | 2031 | 2036 | 2041 |
|---|---|---|---|---|---|
| Leichhardt - One Mile | 0.4 | 3.1 | 8.0 | 17.1 | 23.9 |
| North Ipswich - Tivoli | -0.1 | -0.4 | -0.2 | -0.3 | 0.3 |
| Raceview | 0.0 | 0.4 | 0.7 | -0.4 | 0.8 |
| Ripley | 0.4 | 2.7 | 6.9 | 11.8 | 18.3 |
| Riverview | 1.2 | 7.9 | 17.2 | 29.8 | 41.8 |
| Bellbird Park - Brookwater | 0.2 | 1.0 | 1.7 | 2.4 | 2.9 |
| Camira - Gailes | 0.0 | -0.1 | -0.3 | -0.4 | -0.6 |
| Carole Park | 2.5 | 15.4 | 28.0 | 43.8 | 68.1 |
| Collingwood Park - Redbank | 0.9 | 5.1 | 10.6 | 17.5 | 25.9 |
| Goodna | 0.3 | 1.5 | 2.9 | 4.6 | 7.6 |
| New Chum | 0.0 | 0.0 | -0.2 | -0.4 | -0.4 |
| Redbank Plains | 0.1 | 0.0 | 0.0 | -0.3 | -1.1 |
| Springfield | 0.1 | 0.4 | 0.8 | 1.1 | 1.6 |
| Springfield Lakes | 0.4 | 1.8 | 3.1 | 4.5 | 6.3 |
| **Scenario Three** | | | | | |
| Rosewood | 1.0 | 5.6 | 14.8 | 32.3 | 48.6 |
| Brassall | 0.1 | 0.0 | -0.2 | -0.7 | -0.5 |
| Bundamba | 1.2 | 6.5 | 15.9 | 27.4 | 38.6 |
| Churchill - Yamanto | 1.0 | 5.7 | 15.2 | 28.2 | 46.3 |
| Ipswich - Central | 0.9 | 6.6 | 14.4 | 25.4 | 40.3 |
| Ipswich - East | 0.1 | 1.0 | 2.9 | 5.4 | 9.7 |
| Ipswich - North | 0.0 | 0.1 | 0.2 | 0.5 | 0.6 |
| Karalee - Barellan Point | 0.1 | 0.5 | 0.9 | 1.4 | 1.9 |
| Leichhardt - One Mile | 0.7 | 4.1 | 10.4 | 21.4 | 31.3 |
| North Ipswich - Tivoli | 0.1 | -0.2 | 0.2 | 0.2 | 1.0 |
| Raceview | 0.0 | 0.2 | 0.4 | 0.2 | 0.7 |
| Ripley | 0.2 | 2.2 | 6.6 | 11.8 | 19.2 |
| Riverview | 2.4 | 11.3 | 25.1 | 42.7 | 58.7 |
| Bellbird Park - Brookwater | 0.2 | 0.9 | 1.7 | 2.3 | 2.6 |
| Camira - Gailes | 0.0 | 0.0 | 0.0 | -0.2 | -0.4 |
| Carole Park | 5.0 | 22.7 | 43.9 | 68.1 | 100.1 |
| Collingwood Park - Redbank | 2.7 | 11.2 | 22.4 | 34.6 | 48.6 |
| Goodna | 0.4 | 1.8 | 3.7 | 5.7 | 9.2 |
| New Chum | 0.0 | 0.0 | -0.2 | -0.4 | -0.5 |
| Redbank Plains | 0.1 | 0.2 | 0.3 | 0.1 | -0.9 |
| Springfield | 0.1 | 0.5 | 1.0 | 1.5 | 2.1 |
| Springfield Lakes | 0.5 | 2.0 | 3.7 | 5.5 | 8.0 |

### O.1.3 Low Impact Industrial Land, Supply Demand Balance, SA2, 2021 to 2041

| | 2021 | 2026 | 2031 | 2036 | 2041 |
|---|---|---|---|---|---|
| **Scenario One** | | | | | |
| Rosewood | 29.6 | 28.5 | 26.2 | 20.9 | 18.2 |
| Brassall | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Bundamba | 67.6 | 65.1 | 63.9 | 61.5 | 58.3 |
| Churchill - Yamanto | 50.4 | 49.1 | 46.8 | 44.6 | 41.8 |
| Ipswich - Central | 3.8 | 3.3 | 2.0 | 0.5 | 0.0 |
| Ipswich - East | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ipswich - North | 0.0 | 0.1 | 0.1 | 0.2 | 0.0 |
| Karalee - Barellan Point | 9.3 | 9.2 | 9.0 | 8.8 | 8.6 |
| Leichhardt - One Mile | 6.4 | 6.3 | 5.9 | 5.1 | 4.0 |
| North Ipswich - Tivoli | 19.6 | 19.4 | 19.4 | 19.7 | 19.9 |
| Raceview | 24.7 | 24.8 | 24.9 | 24.8 | 24.8 |
| Ripley | 14.4 | 11.5 | 6.4 | 4.1 | 0.9 |
| Riverview | 16.2 | 16.1 | 15.7 | 15.2 | 14.6 |
| Bellbird Park - Brookwater | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Camira - Gailes | 0.0 | 0.1 | 0.1 | 0.2 | 0.1 |
| Carole Park | 5.6 | 5.2 | 4.4 | 3.7 | 2.7 |
| Collingwood Park - Redbank | 13.6 | 13.1 | 12.5 | 12.1 | 11.8 |
| Goodna | 8.7 | 8.2 | 7.7 | 7.4 | 7.0 |
| New Chum | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 |
| Redbank Plains | 20.0 | 17.1 | 15.8 | 14.0 | 8.4 |
| Springfield | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 |
| Springfield Lakes | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| **Scenario Two (Conservative)** | | | | | |
| Rosewood | 29.5 | 28.0 | 25.0 | 18.7 | 13.1 |
| Brassall | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Bundamba | 66.7 | 60.7 | 58.2 | 50.5 | 42.1 |
| Churchill - Yamanto | 50.3 | 48.8 | 45.8 | 41.0 | 33.2 |
| Ipswich - Central | 3.7 | 3.0 | 1.2 | 0.0 | 0.0 |
| Ipswich - East | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ipswich - North | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 |
| Karalee - Barellan Point | 9.3 | 9.2 | 8.9 | 8.6 | 8.3 |
| Leichhardt - One Mile | 6.4 | 6.1 | 5.5 | 4.3 | 2.7 |
| North Ipswich - Tivoli | 19.6 | 19.3 | 19.1 | 19.3 | 19.4 |
| Raceview | 24.7 | 24.7 | 24.7 | 24.5 | 24.4 |
| Ripley | 14.3 | 11.0 | 4.9 | 2.5 | 0.0 |
| Riverview | 16.1 | 15.7 | 15.0 | 13.9 | 12.6 |

| | 2021 | 2026 | 2031 | 2036 | 2041 |
|---|---|---|---|---|---|
| Bellbird Park - Brookwater | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Camira - Gailes | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Carole Park | 5.4 | 4.0 | 1.7 | 0.2 | 0.0 |
| Collingwood Park - Redbank | 13.5 | 12.9 | 11.9 | 11.0 | 10.2 |
| Goodna | 8.6 | 8.1 | 7.3 | 6.8 | 6.0 |
| New Chum | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 |
| Redbank Plains | 20.0 | 17.8 | 15.9 | 14.6 | 8.2 |
| Springfield | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Springfield Lakes | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| **Scenario Two (Optimistic)** | | | | | |
| Rosewood | 29.5 | 27.7 | 24.2 | 14.6 | 8.8 |
| Brassall | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Bundamba | 66.4 | 58.7 | 56.3 | 49.1 | 33.8 |
| Churchill - Yamanto | 50.3 | 48.6 | 44.9 | 38.7 | 29.3 |
| Ipswich - Central | 3.7 | 2.8 | 1.1 | 0.0 | 0.0 |
| Ipswich - East | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ipswich - North | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Karalee - Barellan Point | 9.3 | 9.1 | 8.8 | 8.5 | 7.9 |
| Leichhardt - One Mile | 6.4 | 6.0 | 5.1 | 3.6 | 1.5 |
| North Ipswich - Tivoli | 19.6 | 19.1 | 18.8 | 19.0 | 19.1 |
| Raceview | 24.7 | 24.6 | 24.5 | 24.2 | 24.0 |
| Ripley | 14.3 | 10.7 | 4.0 | 2.0 | 0.0 |
| Riverview | 16.1 | 15.5 | 14.4 | 13.0 | 11.2 |
| Bellbird Park - Brookwater | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Camira - Gailes | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Carole Park | 5.3 | 3.3 | 0.8 | 0.0 | 0.0 |
| Collingwood Park - Redbank | 13.5 | 12.7 | 11.4 | 10.3 | 9.1 |
| Goodna | 8.6 | 8.0 | 7.1 | 6.3 | 5.3 |
| New Chum | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 |
| Redbank Plains | 19.9 | 17.3 | 12.8 | 8.4 | 2.0 |
| Springfield | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Springfield Lakes | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| **Scenario Three** | | | | | |
| Rosewood | 29.4 | 27.6 | 23.9 | 15.0 | 8.2 |
| Brassall | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Bundamba | 64.7 | 56.2 | 50.3 | 43.6 | 32.8 |
| Churchill - Yamanto | 50.0 | 48.0 | 44.2 | 37.8 | 25.6 |
| Ipswich - Central | 3.7 | 2.7 | 1.0 | 0.0 | 0.0 |

| | 2021 | 2026 | 2031 | 2036 | 2041 |
|---|---|---|---|---|---|
| Ipswich - East | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ipswich - North | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Karalee - Barellan Point | 9.2 | 9.1 | 8.8 | 8.4 | 7.9 |
| Leichhardt - One Mile | 6.3 | 5.7 | 4.6 | 2.6 | 0.7 |
| North Ipswich - Tivoli | 19.5 | 19.0 | 18.6 | 18.7 | 18.6 |
| Raceview | 24.6 | 24.5 | 24.3 | 23.9 | 23.6 |
| Ripley | 14.3 | 11.2 | 5.5 | 2.8 | 0.1 |
| Riverview | 15.9 | 14.9 | 13.2 | 11.0 | 8.5 |
| Bellbird Park - Brookwater | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Camira - Gailes | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Carole Park | 4.6 | 1.8 | 0.0 | 0.0 | 0.0 |
| Collingwood Park - Redbank | 13.5 | 12.0 | 6.9 | 1.6 | 0.0 |
| Goodna | 8.6 | 7.9 | 6.9 | 6.1 | 5.1 |
| New Chum | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Redbank Plains | 19.9 | 17.7 | 15.7 | 12.5 | 6.9 |
| Springfield | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Springfield Lakes | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

### O.1.4 Medium/High Impact Industrial Land, Supply Demand Balance, SA2, 2021 to 2041

| | 2021 | 2026 | 2031 | 2036 | 2041 |
|---|---|---|---|---|---|
| **Scenario One** | | | | | |
| Rosewood | 2,280.1 | 2,275.5 | 2,265.8 | 2,248.1 | 2,232.0 |
| Brassall | 0.0 | 0.3 | 0.5 | 1.0 | 0.9 |
| Bundamba | 58.1 | 55.2 | 49.6 | 49.2 | 44.7 |
| Churchill - Yamanto | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ipswich - Central | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ipswich - East | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ipswich - North | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Karalee - Barellan Point | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Leichhardt - One Mile | 115.9 | 109.2 | 99.2 | 83.7 | 70.0 |
| North Ipswich - Tivoli | 0.1 | 0.6 | 0.6 | 0.8 | 0.5 |
| Raceview | 20.2 | 15.6 | 15.8 | 15.9 | 14.1 |
| Ripley | 382.6 | 380.7 | 377.0 | 372.9 | 368.5 |
| Riverview | 47.0 | 45.5 | 41.8 | 36.6 | 31.6 |
| Bellbird Park - Brookwater | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Camira - Gailes | 0.1 | 0.2 | 0.4 | 0.6 | 0.8 |
| Carole Park | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| Collingwood Park - Redbank | 46.1 | 42.1 | 34.6 | 26.6 | 14.9 |

| | 2021 | 2026 | 2031 | 2036 | 2041 |
|---|---|---|---|---|---|
| Goodna | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| New Chum | 71.3 | 71.3 | 71.4 | 71.6 | 71.7 |
| Redbank Plains | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 |
| Springfield | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Springfield Lakes | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| **Scenario Two (Conservative)** | | | | | |
| Rosewood | 2,279.7 | 2,273.3 | 2,260.7 | 2,209.2 | 2,161.2 |
| Brassall | 0.0 | 0.2 | 0.5 | 0.9 | 0.8 |
| Bundamba | 57.6 | 52.3 | 45.9 | 44.9 | 37.9 |
| Churchill - Yamanto | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ipswich - Central | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ipswich - East | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ipswich - North | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Karalee - Barellan Point | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Leichhardt - One Mile | 114.8 | 103.8 | 90.8 | 85.4 | 65.9 |
| North Ipswich - Tivoli | 0.1 | 0.5 | 0.4 | 0.5 | 0.1 |
| Raceview | 19.4 | 14.6 | 13.5 | 14.2 | 13.7 |
| Ripley | 382.6 | 380.1 | 375.4 | 369.8 | 363.4 |
| Riverview | 46.7 | 43.7 | 37.5 | 35.9 | 31.6 |
| Bellbird Park - Brookwater | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Camira - Gailes | 0.0 | 0.1 | 0.3 | 0.5 | 0.7 |
| Carole Park | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| Collingwood Park - Redbank | 45.1 | 37.0 | 22.9 | 7.9 | 0.0 |
| Goodna | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| New Chum | 71.3 | 71.3 | 71.4 | 71.6 | 71.7 |
| Redbank Plains | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Springfield | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Springfield Lakes | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| **Scenario Two (Optimistic)** | | | | | |
| Rosewood | 2,279.5 | 2,271.9 | 2,257.3 | 2,193.9 | 2,111.4 |
| Brassall | 0.0 | 0.2 | 0.4 | 0.9 | 0.8 |
| Bundamba | 57.2 | 50.0 | 41.0 | 42.2 | 35.0 |
| Churchill - Yamanto | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ipswich - Central | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ipswich - East | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ipswich - North | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Karalee - Barellan Point | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Leichhardt - One Mile | 114.6 | 102.3 | 85.6 | 68.7 | 56.1 |

| | 2021 | 2026 | 2031 | 2036 | 2041 |
|---|---|---|---|---|---|
| North Ipswich - Tivoli | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Raceview | 19.1 | 12.9 | 8.9 | 16.0 | 10.0 |
| Ripley | 382.5 | 379.8 | 374.4 | 367.8 | 360.0 |
| Riverview | 46.5 | 42.6 | 39.3 | 32.4 | 31.6 |
| Bellbird Park - Brookwater | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Camira - Gailes | 0.0 | 0.1 | 0.3 | 0.4 | 0.6 |
| Carole Park | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| Collingwood Park - Redbank | 44.7 | 34.1 | 15.1 | 2.7 | 0.0 |
| Goodna | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| New Chum | 71.3 | 71.3 | 71.4 | 71.5 | 71.7 |
| Redbank Plains | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Springfield | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Springfield Lakes | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| **Scenario Three** | | | | | |
| Rosewood | 2,278.7 | 2,269.4 | 2,227.8 | 2,129.2 | 2,005.5 |
| Brassall | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Bundamba | 56.3 | 48.1 | 38.7 | 35.3 | 35.1 |
| Churchill - Yamanto | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ipswich - Central | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ipswich - East | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ipswich - North | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Karalee - Barellan Point | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Leichhardt - One Mile | 113.1 | 98.4 | 81.7 | 62.7 | 39.0 |
| North Ipswich - Tivoli | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Raceview | 19.5 | 14.7 | 13.5 | 13.3 | 13.2 |
| Ripley | 382.4 | 379.6 | 374.0 | 366.7 | 357.3 |
| Riverview | 46.0 | 40.3 | 34.1 | 33.5 | 31.6 |
| Bellbird Park - Brookwater | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Camira - Gailes | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Carole Park | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| Collingwood Park - Redbank | 42.5 | 25.0 | 5.6 | 0.0 | 0.0 |
| Goodna | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| New Chum | 71.3 | 71.3 | 71.4 | 71.6 | 71.7 |
| Redbank Plains | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Springfield | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Springfield Lakes | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

# Appendix P Resident Workforce Projections and Land Demand Calculations

### P.1.1 Usual Resident Workforce Projections – Ipswich City, 2019 to 2041

| | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
|---|---|---|---|---|---|---|
| Agriculture, Forestry and Fishing, nfd | 11 | 13 | 21 | 30 | 39 | 49 |
| Agriculture | 850 | 1,020 | 1,558 | 2,194 | 2,865 | 3,607 |
| Aquaculture | 33 | 42 | 67 | 97 | 128 | 162 |
| Forestry and Logging | 12 | 16 | 26 | 38 | 50 | 63 |
| Fishing, Hunting and Trapping | 18 | 24 | 41 | 61 | 82 | 104 |
| Agriculture, Forestry and Fishing Support Services | 86 | 99 | 139 | 187 | 239 | 300 |
| Mining, nfd | 84 | 88 | 100 | 115 | 136 | 167 |
| Coal Mining | 333 | 330 | 305 | 277 | 279 | 327 |
| Oil and Gas Extraction | 216 | 273 | 447 | 652 | 865 | 1,092 |
| Metal Ore Mining | 142 | 175 | 275 | 395 | 519 | 654 |
| Non-Metallic Mineral Mining and Quarrying | 59 | 53 | 26 | 0 | 0 | 0 |
| Exploration and Other Mining Support Services | 0 | 0 | 0 | 0 | 0 | 0 |
| Manufacturing, nfd | 459 | 389 | 277 | 213 | 182 | 176 |
| Food Product Manufacturing | 3,317 | 3,512 | 4,102 | 4,811 | 5,758 | 7,096 |
| Beverage and Tobacco Product Manufacturing | 181 | 155 | 40 | 30 | 13 | 14 |
| Textile, Leather, Clothing and Footwear Manufacturing | 66 | 50 | 45 | 42 | 36 | 25 |
| Wood Product Manufacturing | 232 | 218 | 225 | 226 | 225 | 220 |
| Pulp, Paper and Converted Paper Product Manufacturing | 168 | 164 | 144 | 122 | 115 | 131 |
| Printing (including the Reproduction of Recorded Media) | 179 | 176 | 158 | 137 | 133 | 153 |
| Petroleum and Coal Product Manufacturing | 32 | 30 | 21 | 11 | 4 | 2 |
| Basic Chemical and Chemical Product Manufacturing | 433 | 446 | 480 | 522 | 598 | 729 |
| Polymer Product and Rubber Product Manufacturing | 301 | 262 | 205 | 132 | 88 | 20 |
| Non-Metallic Mineral Product Manufacturing | 483 | 468 | 441 | 403 | 320 | 180 |
| Primary Metal and Metal Product Manufacturing | 762 | 730 | 659 | 580 | 480 | 334 |
| Fabricated Metal Product Manufacturing | 577 | 531 | 495 | 455 | 404 | 355 |
| Transport Equipment Manufacturing | 916 | 924 | 1,039 | 1,253 | 1,534 | 1,901 |
| Machinery and Equipment Manufacturing | 512 | 453 | 396 | 384 | 354 | 329 |
| Furniture and Other Manufacturing | 299 | 283 | 281 | 267 | 238 | 211 |
| Electricity, Gas, Water and Waste Services, nfd | 29 | 38 | 68 | 102 | 137 | 174 |
| Electricity Supply | 238 | 194 | 0 | 0 | 0 | 0 |
| Gas Supply | 63 | 85 | 151 | 228 | 306 | 388 |
| Water Supply, Sewerage and Drainage Services | 461 | 518 | 700 | 917 | 1,160 | 1,449 |

| | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
|---|---|---|---|---|---|---|
| Waste Collection, Treatment and Disposal Services | 457 | 509 | 676 | 874 | 1,099 | 1,372 |
| Construction, nfd | 536 | 668 | 1,083 | 1,572 | 2,079 | 2,625 |
| Building Construction | 2,248 | 2,516 | 3,379 | 4,402 | 5,556 | 6,939 |
| Heavy and Civil Engineering Construction | 676 | 632 | 426 | 187 | 20 | 0 |
| Construction Services | 5,727 | 6,557 | 9,219 | 12,373 | 15,828 | 19,832 |
| Wholesale Trade, nfd | 0 | 0 | 0 | 0 | 0 | 0 |
| Basic Material Wholesaling | 565 | 556 | 502 | 441 | 432 | 501 |
| Machinery and Equipment Wholesaling | 730 | 725 | 678 | 627 | 640 | 754 |
| Motor Vehicle and Motor Vehicle Parts Wholesaling | 476 | 507 | 604 | 720 | 869 | 1,073 |
| Grocery, Liquor and Tobacco Product Wholesaling | 618 | 565 | 324 | 45 | 0 | 0 |
| Other Goods Wholesaling | 316 | 274 | 79 | 0 | 0 | 0 |
| Commission-Based Wholesaling | 19 | 19 | 22 | 25 | 29 | 35 |
| Retail Trade, nfd | 180 | 134 | 0 | 0 | 0 | 0 |
| Motor Vehicle and Motor Vehicle Parts Retailing | 1,054 | 1,182 | 1,593 | 2,080 | 2,629 | 3,284 |
| Fuel Retailing | 404 | 454 | 615 | 805 | 1,019 | 1,273 |
| Food Retailing | 3,992 | 4,395 | 5,680 | 7,208 | 8,984 | 11,186 |
| Other Store-Based Retailing | 5,240 | 5,679 | 7,063 | 8,714 | 10,711 | 13,290 |
| Non-Store Retailing and Retail Commission-Based Buying and/or Selling | 79 | 92 | 133 | 183 | 236 | 296 |
| Accommodation and Food Services, nfd | 9 | 13 | 25 | 39 | 53 | 68 |
| Accommodation | 407 | 414 | 425 | 441 | 490 | 591 |
| Food and Beverage Services | 5,646 | 6,391 | 8,782 | 11,617 | 14,765 | 18,471 |
| Transport, Postal and Warehousing, nfd | 408 | 555 | 996 | 1,515 | 2,040 | 2,586 |
| Road Transport | 3,056 | 3,192 | 3,579 | 4,049 | 4,749 | 5,822 |
| Rail Transport | 247 | 119 | 0 | 0 | 0 | 0 |
| Water Transport | 41 | 45 | 58 | 74 | 93 | 116 |
| Air and Space Transport | 292 | 351 | 538 | 760 | 994 | 1,251 |
| Other Transport | 27 | 32 | 46 | 62 | 80 | 101 |
| Postal and Courier Pick-up and Delivery Services | 858 | 1,015 | 1,513 | 2,102 | 2,730 | 3,433 |
| Transport Support Services | 523 | 583 | 775 | 1,003 | 1,262 | 1,575 |
| Warehousing and Storage Services | 1,079 | 1,383 | 2,318 | 3,421 | 4,554 | 5,759 |
| Information Media and Telecommunications, nfd | 15 | 18 | 26 | 36 | 46 | 58 |
| Publishing (except Internet and Music Publishing) | 74 | 60 | 0 | 0 | 0 | 0 |
| Motion Picture and Sound Recording Activities | 277 | 359 | 611 | 909 | 1,214 | 1,536 |
| Broadcasting (except Internet) | 98 | 115 | 169 | 234 | 303 | 381 |

| | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
|---|---|---|---|---|---|---|
| Internet Publishing and Broadcasting | 5 | 6 | 9 | 12 | 16 | 20 |
| Telecommunications Services | 496 | 549 | 718 | 920 | 1,151 | 1,435 |
| Internet Service Providers, Web Search Portals and Data Processing Services | 165 | 211 | 351 | 516 | 686 | 868 |
| Library and Other Information Services | 60 | 70 | 103 | 142 | 184 | 231 |
| Financial and Insurance Services, nfd | 30 | 27 | 14 | 0 | 0 | 0 |
| Finance | 1,189 | 1,275 | 1,545 | 1,867 | 2,271 | 2,810 |
| Insurance and Superannuation Funds | 712 | 780 | 997 | 1,256 | 1,560 | 1,940 |
| Auxiliary Finance and Insurance Services | 754 | 907 | 1,391 | 1,963 | 2,565 | 3,231 |
| Rental, Hiring and Real Estate Services, nfd | 19 | 27 | 51 | 79 | 107 | 136 |
| Rental and Hiring Services (except Real Estate) | 471 | 500 | 588 | 693 | 831 | 1,025 |
| Property Operators and Real Estate Services | 1,396 | 1,659 | 2,494 | 3,483 | 4,532 | 5,702 |
| Professional, Scientific and Technical Services, nfd | 23 | 30 | 52 | 79 | 105 | 133 |
| Professional, Scientific and Technical Services (except Computer System Design and Related Services) | 3,580 | 3,848 | 4,685 | 5,686 | 6,931 | 8,581 |
| Computer System Design and Related Services | 951 | 1,056 | 1,393 | 1,792 | 2,249 | 2,805 |
| Administrative and Support Services, nfd | 14 | 18 | 31 | 46 | 61 | 77 |
| Administrative Services | 1,648 | 1,810 | 2,328 | 2,944 | 3,663 | 4,558 |
| Building Cleaning, Pest Control and Other Support Services | 2,132 | 2,490 | 3,633 | 4,987 | 6,442 | 8,090 |
| Public Administration and Safety, nfd | 17 | 21 | 31 | 44 | 57 | 72 |
| Public Administration | 3,728 | 3,806 | 3,958 | 4,155 | 4,656 | 5,636 |
| Defence | 2,920 | 3,210 | 4,135 | 5,236 | 6,519 | 8,114 |
| Public Order, Safety and Regulatory Services | 2,596 | 2,892 | 3,839 | 4,964 | 6,244 | 7,791 |
| Education and Training, nfd | 232 | 279 | 427 | 602 | 787 | 991 |
| Preschool and School Education | 7,022 | 8,233 | 12,099 | 16,674 | 21,579 | 27,111 |
| Tertiary Education | 1,467 | 1,619 | 2,104 | 2,680 | 3,347 | 4,170 |
| Adult, Community and Other Education | 593 | 654 | 848 | 1,079 | 1,347 | 1,677 |
| Health Care and Social Assistance, nfd | 0 | 0 | 0 | 0 | 0 | 0 |
| Hospitals | 4,342 | 4,837 | 6,423 | 8,307 | 10,448 | 13,037 |
| Medical and Other Health Care Services | 3,284 | 3,856 | 5,679 | 7,836 | 10,147 | 12,750 |
| Residential Care Services | 2,531 | 2,890 | 4,039 | 5,401 | 6,898 | 8,639 |
| Social Assistance Services | 4,419 | 5,031 | 6,994 | 9,321 | 11,887 | 14,883 |
| Arts and Recreation Services, nfd | 19 | 21 | 25 | 31 | 38 | 47 |
| Heritage Activities | 112 | 125 | 167 | 216 | 272 | 339 |
| Creative and Performing Arts Activities | 173 | 205 | 307 | 428 | 557 | 700 |
| Sports and Recreation Activities | 648 | 739 | 1,030 | 1,374 | 1,754 | 2,196 |
| Gambling Activities | 150 | 170 | 235 | 313 | 398 | 499 |

| | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
|---|---|---|---|---|---|---|
| Other Services, nfd | 0 | 0 | 0 | 0 | 0 | 0 |
| Repair and Maintenance | 1,968 | 2,170 | 2,817 | 3,586 | 4,476 | 5,575 |
| Personal and Other Services | 2,290 | 2,586 | 3,537 | 4,665 | 5,921 | 7,404 |
| Private Households Employing Staff and Undifferentiated Goods and Service-Producing Activities of Households for Own Use | 28 | 33 | 49 | 69 | 89 | 112 |
| Total Ipswich City | 100,108 | 110,507 | 143,992 | 184,841 | 231,566 | 288,006 |

Source: QGSO (2018), NIEIR (2019) and CDM Smith analysis

## P.1.2 Usual Resident Workforce Projections – SA2s in Ipswich City, 2019

| 2 Digit Level | Rosewood | Brassall | Bundamba | Churchill - Yamanto | Ipswich - Central | Ipswich - East | Ipswich - North | Karalee - Barellan Point | Leichhardt - One Mile | North Ipswich - Tivoli | Raceview | Ripley | Riverview | Bellbird Park - Brookwater | Camira - Gaileys | Carole Park | Collingwood Park - Redbank | Goodna | New Chum | Redbank Plains | Springfield | Springfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Agriculture, Forestry and Fishing, nfd | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| Agriculture | 216 | 20 | 24 | 22 | 22 | 64 | 57 | 19 | 35 | 25 | 48 | 37 | 0 | 42 | 13 | 0 | 33 | 23 | 0 | 57 | 29 | 51 | 850 |
| Aquaculture | 0 | 7 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 4 | 0 | 0 | 33 |
| Forestry and Logging | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| Fishing, Hunting and Trapping | 0 | 0 | 0 | 0 | 0 | 5 | 6 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 |
| Agriculture, Forestry and Fishing Support Services | 0 | 0 | 0 | 5 | 0 | 0 | 6 | 0 | 9 | 4 | 0 | 0 | 0 | 11 | 10 | 0 | 0 | 5 | 0 | 12 | 9 | 9 | 86 |
| Mining, nfd | 0 | 0 | 0 | 8 | 0 | 4 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 17 | 12 | 0 | 5 | 0 | 0 | 10 | 3 | 15 | 84 |
| Coal Mining | 29 | 0 | 0 | 28 | 8 | 15 | 12 | 17 | 13 | 6 | 16 | 10 | 5 | 52 | 21 | 0 | 7 | 12 | 0 | 26 | 17 | 28 | 333 |
| Oil and Gas Extraction | 15 | 8 | 0 | 0 | 0 | 8 | 5 | 6 | 3 | 5 | 21 | 30 | 0 | 38 | 0 | 0 | 7 | 8 | 0 | 5 | 1 | 45 | 216 |
| Metal Ore Mining | 7 | 0 | 6 | 0 | 0 | 9 | 2 | 22 | 0 | 6 | 3 | 0 | 0 | 21 | 0 | 0 | 0 | 0 | 0 | 15 | 12 | 37 | 142 |
| Non-Metallic Mineral Mining and Quarrying | 21 | 7 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 11 | 8 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 1 | 59 |
| Exploration and Other Mining Support Services | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Manufacturing, nfd | 0 | 0 | 12 | 27 | 18 | 103 | 0 | 9 | 32 | 7 | 12 | 41 | 0 | 40 | 0 | 0 | 13 | 20 | 0 | 0 | 12 | 0 | 459 |

| 2 Digit Level | Rosewood | Brassall | Bundamba | Churchill - Yamanto | Ipswich - Central | Ipswich - East | Ipswich - North | Karalee - Barellan Point | Leichhardt - One Mile | North Ipswich - Tivoli | Raceview | Ripley | Riverview | Bellbird Park - Brookwater | Camira - Gailes | Carole Park | Collingwood Park - Redbank | Goodna | New Chum | Redbank Plains | Springfield | Springfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Food Product Manufacturing | 185 | 171 | 140 | 126 | 51 | 204 | 89 | 46 | 153 | 110 | 238 | 115 | 39 | 203 | 135 | 0 | 217 | 275 | 0 | 514 | 90 | 184 | 3,317 |
| Beverage and Tobacco Product Manufacturing | 4 | 9 | 10 | 0 | 6 | 18 | 4 | 0 | 0 | 0 | 0 | 11 | 0 | 29 | 18 | 0 | 0 | 20 | 0 | 23 | 0 | 7 | 181 |
| Textile, Leather, Clothing and Footwear Manufacturing | 0 | 4 | 0 | 8 | 3 | 0 | 8 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 12 | 0 | 0 | 15 | 0 | 0 | 0 | 1 | 66 |
| Wood Product Manufacturing | 40 | 0 | 0 | 0 | 23 | 34 | 8 | 21 | 15 | 13 | 24 | 0 | 0 | 7 | 5 | 0 | 0 | 0 | 0 | 2 | 5 | 6 | 232 |
| Pulp, Paper and Converted Paper Product Manufacturing | 5 | 8 | 0 | 5 | 0 | 0 | 0 | 8 | 0 | 5 | 5 | 1 | 3 | 27 | 13 | 0 | 26 | 20 | 0 | 19 | 7 | 8 | 168 |
| Printing (including the Reproduction of Recorded Media) | 7 | 0 | 9 | 0 | 13 | 23 | 6 | 0 | 9 | 7 | 8 | 0 | 0 | 20 | 15 | 0 | 10 | 1 | 0 | 14 | 22 | 0 | 179 |
| Petroleum and Coal Product Manufacturing | 0 | 9 | 0 | 0 | 0 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 8 | 0 | 0 | 3 | 0 | 0 | 32 |
| Basic Chemical and Chemical Product Manufacturing | 16 | 0 | 10 | 12 | 3 | 20 | 16 | 8 | 7 | 4 | 35 | 9 | 0 | 64 | 18 | 0 | 16 | 9 | 0 | 66 | 37 | 74 | 433 |
| Polymer Product and Rubber Product Manufacturing | 0 | 37 | 15 | 21 | 0 | 0 | 0 | 12 | 8 | 0 | 12 | 29 | 9 | 0 | 52 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 301 |
| Non-Metallic Mineral Product Manufacturing | 40 | 28 | 16 | 0 | 12 | 0 | 18 | 8 | 13 | 22 | 51 | 56 | 0 | 47 | 24 | 0 | 20 | 31 | 0 | 24 | 12 | 20 | 483 |
| Primary Metal and Metal Product Manufacturing | 68 | 14 | 84 | 27 | 0 | 77 | 16 | 21 | 29 | 31 | 60 | 37 | 0 | 0 | 40 | 0 | 73 | 41 | 0 | 0 | 35 | 34 | 762 |

| 2 Digit Level | Rosewood | Brassall | Bundamba | Churchill - Yamanto | Ipswich - Central | Ipswich - East | Ipswich - North | Karalee - Barellan Point | Leichhardt - One Mile | North Ipswich - Tivoli | Raceview | Ripley | Riverview | Bellbird Park - Brookwater | Camira - Gaileas | Carole Park | Collingwood Park - Redbank | Goodna | New Chum | Redbank Plains | Springfield | Springfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Fabricated Metal Product Manufacturing | 57 | 28 | 18 | 0 | 0 | 41 | 22 | 10 | 22 | 13 | 18 | 49 | 0 | 31 | 0 | 0 | 36 | 0 | 0 | 87 | 39 | 43 | 577 |
| Transport Equipment Manufacturing | 88 | 28 | 38 | 33 | 24 | 84 | 15 | 33 | 47 | 14 | 51 | 42 | 6 | 47 | 67 | 0 | 33 | 51 | 0 | 116 | 15 | 71 | 916 |
| Machinery and Equipment Manufacturing | 10 | 23 | 0 | 5 | 27 | 72 | 17 | 0 | 12 | 0 | 52 | 48 | 0 | 47 | 0 | 0 | 0 | 62 | 0 | 0 | 11 | 0 | 512 |
| Furniture and Other Manufacturing | 19 | 3 | 0 | 0 | 0 | 11 | 18 | 16 | 4 | 0 | 0 | 16 | 10 | 34 | 20 | 0 | 30 | 0 | 0 | 35 | 14 | 32 | 299 |
| Electricity, Gas, Water and Waste Services, nfd | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 29 |
| Electricity Supply | 9 | 20 | 8 | 0 | 8 | 16 | 0 | 0 | 8 | 13 | 30 | 13 | 0 | 16 | 26 | 0 | 18 | 0 | 0 | 14 | 9 | 0 | 238 |
| Gas Supply | 8 | 0 | 5 | 0 | 0 | 0 | 13 | 0 | 0 | 7 | 6 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 6 | 4 | 8 | 63 |
| Water Supply, Sewerage and Drainage Services | 28 | 17 | 20 | 20 | 25 | 42 | 18 | 28 | 26 | 19 | 34 | 58 | 0 | 31 | 4 | 0 | 12 | 0 | 0 | 16 | 11 | 36 | 461 |
| Waste Collection, Treatment and Disposal Services | 54 | 19 | 2 | 22 | 4 | 34 | 7 | 21 | 0 | 26 | 45 | 12 | 6 | 35 | 8 | 0 | 30 | 14 | 0 | 60 | 17 | 34 | 457 |
| Construction, nfd | 40 | 9 | 29 | 15 | 30 | 36 | 14 | 12 | 17 | 20 | 18 | 20 | 5 | 73 | 47 | 0 | 20 | 17 | 0 | 48 | 10 | 50 | 536 |
| Building Construction | 101 | 118 | 83 | 65 | 91 | 189 | 53 | 63 | 36 | 81 | 134 | 185 | 17 | 260 | 129 | 0 | 103 | 91 | 0 | 166 | 91 | 157 | 2,248 |

| 2 Digit Level | Rosewood | Brassall | Bundamba | Churchill - Yamanto | Ipswich - Central | Ipswich - East | Ipswich - North | Karalee - Barellan Point | Leichhardt - One Mile | North Ipswich - Tivoli | Raceview | Ripley | Riverview | Bellbird Park - Brookwater | Camira - Gaileys | Carole Park | Collingwood Park - Redbank | Goodna | New Chum | Redbank Plains | Springfield | Springfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Heavy and Civil Engineering Construction | 50 | 45 | 36 | 17 | 21 | 49 | 37 | 45 | 26 | 14 | 48 | 10 | 11 | 7 | 63 | 0 | 0 | 11 | 0 | 52 | 14 | 85 | 676 |
| Construction Services | 388 | 283 | 221 | 205 | 127 | 466 | 217 | 222 | 156 | 203 | 447 | 358 | 32 | 434 | 397 | 0 | 234 | 195 | 0 | 501 | 168 | 425 | 5,727 |
| Wholesale Trade, nfd | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Basic Material Wholesaling | 31 | 11 | 23 | 0 | 4 | 41 | 16 | 8 | 21 | 17 | 38 | 17 | 14 | 52 | 47 | 0 | 51 | 26 | 0 | 60 | 13 | 58 | 565 |
| Machinery and Equipment Wholesaling | 33 | 34 | 12 | 16 | 23 | 40 | 0 | 10 | 11 | 33 | 30 | 60 | 0 | 68 | 47 | 0 | 50 | 23 | 0 | 71 | 34 | 104 | 730 |
| Motor Vehicle and Motor Vehicle Parts Wholesaling | 22 | 18 | 25 | 0 | 16 | 19 | 20 | 2 | 10 | 25 | 34 | 42 | 3 | 45 | 10 | 0 | 7 | 21 | 0 | 72 | 22 | 40 | 476 |
| Grocery, Liquor and Tobacco Product Wholesaling | 33 | 27 | 0 | 13 | 15 | 68 | 17 | 23 | 21 | 7 | 31 | 33 | 11 | 2 | 32 | 0 | 52 | 24 | 0 | 89 | 28 | 54 | 618 |
| Other Goods Wholesaling | 23 | 31 | 26 | 22 | 0 | 27 | 7 | 0 | 0 | 0 | 21 | 6 | 3 | 0 | 7 | 0 | 22 | 23 | 0 | 45 | 7 | 19 | 316 |
| Commission-Based Wholesaling | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 19 |
| Retail Trade, nfd | 0 | 23 | 24 | 0 | 0 | 0 | 0 | 12 | 19 | 0 | 16 | 0 | 3 | 0 | 15 | 0 | 7 | 0 | 0 | 12 | 1 | 17 | 180 |
| Motor Vehicle and Motor Vehicle Parts Retailing | 78 | 75 | 57 | 65 | 0 | 86 | 50 | 30 | 35 | 19 | 67 | 46 | 4 | 97 | 29 | 0 | 49 | 21 | 0 | 116 | 31 | 84 | 1,054 |

| 2 Digit Level | Rosewood | Brassall | Bundamba | Churchill - Yamanto | Ipswich - Central | Ipswich - East | Ipswich - North | Karalee - Barellan Point | Leichhardt - One Mile | North Ipswich - Tivoli | Raceview | Ripley | Riverview | Bellbird Park - Brookwater | Camira - Gaileas | Carole Park | Collingwood Park - Redbank | Goodna | New Chum | Redbank Plains | Springfield | Springfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Fuel Retailing | 35 | 12 | 24 | 9 | 13 | 21 | 14 | 16 | 20 | 0 | 16 | 24 | 0 | 25 | 18 | 0 | 11 | 25 | 0 | 51 | 22 | 37 | 404 |
| Food Retailing | 278 | 246 | 246 | 175 | 81 | 267 | 89 | 150 | 112 | 107 | 326 | 235 | 21 | 344 | 179 | 0 | 184 | 137 | 0 | 381 | 143 | 242 | 3,992 |
| Other Store-Based Retailing | 256 | 240 | 249 | 187 | 147 | 411 | 146 | 141 | 113 | 133 | 426 | 286 | 45 | 461 | 248 | 0 | 241 | 217 | 0 | 498 | 169 | 582 | 5,240 |
| Non-Store Retailing and Retail Commission-Based Buying and/or Selling | 7 | 0 | 8 | 6 | 0 | 9 | 7 | 0 | 0 | 0 | 3 | 0 | 0 | 11 | 6 | 0 | 0 | 0 | 0 | 7 | 5 | 7 | 79 |
| Accommodation and Food Services, nfd | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 9 |
| Accommodation | 14 | 27 | 13 | 11 | 22 | 40 | 0 | 21 | 0 | 25 | 36 | 0 | 13 | 26 | 19 | 0 | 9 | 28 | 0 | 33 | 15 | 45 | 407 |
| Food and Beverage Services | 266 | 350 | 244 | 170 | 159 | 449 | 121 | 184 | 190 | 145 | 451 | 250 | 60 | 503 | 240 | 0 | 267 | 183 | 0 | 439 | 291 | 647 | 5,646 |
| Transport, Postal and Warehousing, nfd | 34 | 10 | 24 | 12 | 8 | 22 | 18 | 13 | 18 | 5 | 26 | 35 | 0 | 29 | 22 | 0 | 9 | 18 | 0 | 40 | 17 | 37 | 408 |
| Road Transport | 248 | 147 | 176 | 88 | 76 | 244 | 52 | 59 | 97 | 52 | 199 | 69 | 47 | 225 | 141 | 0 | 139 | 177 | 0 | 414 | 159 | 237 | 3,056 |
| Rail Transport | 0 | 12 | 0 | 0 | 0 | 28 | 8 | 16 | 12 | 0 | 11 | 0 | 3 | 0 | 13 | 0 | 4 | 5 | 0 | 31 | 22 | 31 | 247 |

| 2 Digit Level | Rosewood | Brassall | Bundamba | Churchill - Yamanto | Ipswich - Central | Ipswich - East | Ipswich - North | Karalee - Barellan Point | Leichhardt - One Mile | North Ipswich - Tivoli | Raceview | Ripley | Riverview | Bellbird Park - Brookwater | Camira - Gaileas | Carole Park | Collingwood Park - Redbank | Goodna | New Chum | Redbank Plains | Springfield | Springfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Water Transport | 0 | 0 | 8 | 0 | 0 | 6 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 7 | 8 | 0 | 41 |
| Air and Space Transport | 13 | 13 | 3 | 13 | 5 | 20 | 18 | 18 | 8 | 14 | 8 | 26 | 0 | 37 | 5 | 0 | 13 | 5 | 0 | 5 | 16 | 45 | 292 |
| Other Transport | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 6 | 27 |
| Postal and Courier Pick-up and Delivery Services | 33 | 42 | 35 | 23 | 17 | 67 | 14 | 19 | 16 | 28 | 76 | 29 | 14 | 80 | 59 | 0 | 33 | 47 | 0 | 90 | 31 | 95 | 858 |
| Transport Support Services | 22 | 28 | 16 | 10 | 8 | 39 | 5 | 14 | 16 | 17 | 37 | 24 | 6 | 42 | 12 | 0 | 38 | 22 | 0 | 84 | 21 | 57 | 523 |
| Warehousing and Storage Services | 39 | 27 | 42 | 22 | 25 | 60 | 1 | 12 | 31 | 20 | 55 | 19 | 18 | 82 | 55 | 0 | 63 | 66 | 0 | 214 | 87 | 133 | 1,079 |
| Information Media and Telecommunications, nfd | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 15 |
| Publishing (except Internet and Music Publishing) | 11 | 0 | 2 | 2 | 9 | 0 | 6 | 4 | 0 | 0 | 0 | 0 | 0 | 13 | 2 | 0 | 1 | 3 | 0 | 5 | 5 | 0 | 74 |
| Motion Picture and Sound Recording Activities | 0 | 20 | 19 | 5 | 12 | 13 | 16 | 5 | 0 | 7 | 26 | 17 | 0 | 46 | 18 | 0 | 10 | 5 | 0 | 12 | 11 | 30 | 277 |
| Broadcasting (except Internet) | 11 | 9 | 0 | 7 | 3 | 5 | 0 | 4 | 7 | 0 | 0 | 0 | 0 | 10 | 3 | 0 | 0 | 0 | 0 | 22 | 0 | 13 | 98 |
| Internet Publishing and Broadcasting | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 5 |
| Telecommunications Services | 8 | 21 | 12 | 17 | 6 | 33 | 11 | 23 | 0 | 24 | 17 | 18 | 5 | 51 | 19 | 0 | 16 | 24 | 0 | 51 | 29 | 105 | 496 |
| Internet Service Providers, Web Search Portals and Data Processing Services | 0 | 6 | 0 | 8 | 4 | 2 | 0 | 9 | 0 | 8 | 9 | 0 | 8 | 23 | 14 | 0 | 6 | 0 | 0 | 20 | 5 | 40 | 165 |

| 2 Digit Level | Rosewood | Brassall | Bundamba | Churchill - Yamanto | Ipswich - Central | Ipswich - East | Ipswich - North | Karalee - Barellan Point | Leichhardt - One Mile | North Ipswich - Tivoli | Raceview | Ripley | Riverview | Bellbird Park - Brookwater | Camira - Gailes | Carole Park | Collingwood Park - Redbank | Goodna | New Chum | Redbank Plains | Springfield | Springfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Library and Other Information Services | 14 | 0 | 0 | 0 | 0 | 3 | 7 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 3 | 11 | 2 | 60 |
| Financial and Insurance Services, nfd | 0 | 3 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 3 | 0 | 2 | 0 | 0 | 1 | 0 | 4 | 30 |
| Finance | 68 | 75 | 21 | 71 | 30 | 84 | 29 | 18 | 42 | 17 | 84 | 94 | 11 | 79 | 55 | 0 | 30 | 26 | 0 | 85 | 52 | 198 | 1,189 |
| Insurance and Superannuation Funds | 10 | 32 | 36 | 15 | 12 | 32 | 12 | 20 | 5 | 6 | 20 | 57 | 8 | 83 | 37 | 0 | 46 | 33 | 0 | 57 | 31 | 138 | 712 |
| Auxiliary Finance and Insurance Services | 40 | 27 | 19 | 23 | 12 | 25 | 17 | 29 | 17 | 25 | 53 | 66 | 8 | 84 | 28 | 0 | 21 | 30 | 0 | 90 | 29 | 97 | 754 |
| Rental, Hiring and Real Estate Services, nfd | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 2 | 1 | 0 | 1 | 1 | 0 | 2 | 1 | 2 | 19 |
| Rental and Hiring Services (except Real Estate) | 18 | 19 | 0 | 18 | 0 | 58 | 20 | 6 | 14 | 29 | 26 | 0 | 5 | 15 | 16 | 0 | 27 | 15 | 0 | 84 | 32 | 52 | 471 |
| Property Operators and Real Estate Services | 69 | 74 | 74 | 43 | 43 | 110 | 26 | 39 | 31 | 35 | 109 | 87 | 6 | 159 | 71 | 0 | 49 | 44 | 0 | 98 | 49 | 167 | 1,396 |
| Professional, Scientific and Technical Services, nfd | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 5 | 6 | 23 |
| Professional, Scientific and Technical Services (except Computer System Design and Related Services) | 208 | 196 | 134 | 109 | 128 | 280 | 144 | 154 | 46 | 77 | 203 | 239 | 20 | 487 | 138 | 0 | 125 | 82 | 0 | 196 | 125 | 433 | 3,580 |
| Computer System Design and Related Services | 57 | 48 | 24 | 24 | 25 | 49 | 20 | 45 | 8 | 22 | 58 | 0 | 14 | 152 | 35 | 0 | 42 | 21 | 0 | 96 | 43 | 156 | 951 |

| 2 Digit Level | Rosewood | Brassall | Bundamba | Churchill - Yamanto | Ipswich - Central | Ipswich - East | Ipswich - North | Karalee - Barellan Point | Leichhardt - One Mile | North Ipswich - Tivoli | Raceview | Ripley | Riverview | Bellbird Park - Brookwater | Camira - Gaileas | Carole Park | Collingwood Park - Redbank | Goodna | New Chum | Redbank Plains | Springfield | Springfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Administrative and Support Services, nfd | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 14 |
| Administrative Services | 91 | 62 | 79 | 39 | 38 | 140 | 9 | 27 | 62 | 14 | 113 | 69 | 24 | 140 | 77 | 0 | 62 | 111 | 0 | 189 | 84 | 198 | 1,648 |
| Building Cleaning, Pest Control and Other Support Services | 146 | 112 | 116 | 48 | 84 | 214 | 42 | 50 | 108 | 44 | 135 | 117 | 35 | 140 | 109 | 0 | 83 | 124 | 0 | 204 | 81 | 121 | 2,132 |
| Public Administration and Safety, nfd | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 17 |
| Public Administration | 160 | 177 | 175 | 144 | 175 | 373 | 87 | 171 | 98 | 147 | 309 | 208 | 27 | 356 | 126 | 0 | 137 | 116 | 0 | 232 | 126 | 334 | 3,728 |
| Defence | 367 | 150 | 13 | 259 | 45 | 75 | 63 | 52 | 32 | 0 | 294 | 513 | 6 | 394 | 19 | 0 | 25 | 22 | 0 | 44 | 52 | 328 | 2,920 |
| Public Order, Safety and Regulatory Services | 201 | 142 | 72 | 70 | 67 | 178 | 54 | 131 | 88 | 80 | 185 | 154 | 23 | 253 | 68 | 0 | 79 | 79 | 0 | 210 | 109 | 321 | 2,596 |
| Education and Training, nfd | 14 | 15 | 18 | 9 | 7 | 13 | 3 | 0 | 5 | 7 | 22 | 0 | 0 | 37 | 16 | 0 | 5 | 5 | 0 | 18 | 9 | 25 | 232 |
| Preschool and School Education | 491 | 389 | 256 | 234 | 282 | 596 | 269 | 274 | 197 | 222 | 546 | 511 | 35 | 588 | 284 | 0 | 277 | 213 | 0 | 419 | 259 | 598 | 7,022 |

| 2 Digit Level | Rosewood | Brassall | Bundamba | Churchill - Yamanto | Ipswich - Central | Ipswich - East | Ipswich - North | Karalee - Barellan Point | Leichhardt - One Mile | North Ipswich - Tivoli | Raceview | Ripley | Riverview | Bellbird Park - Brookwater | Camira - Gailes | Carole Park | Collingwood Park - Redbank | Goodna | New Chum | Redbank Plains | Springfield | Springfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tertiary Education | 81 | 48 | 57 | 38 | 58 | 133 | 54 | 58 | 41 | 35 | 68 | 67 | 13 | 187 | 69 | 0 | 60 | 60 | 0 | 76 | 55 | 188 | 1,467 |
| Adult, Community and Other Education | 38 | 15 | 13 | 22 | 20 | 52 | 29 | 11 | 10 | 12 | 36 | 64 | 5 | 66 | 32 | 0 | 26 | 23 | 0 | 31 | 17 | 53 | 593 |
| Health Care and Social Assistance, nfd | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hospitals | 234 | 259 | 135 | 151 | 135 | 382 | 156 | 161 | 138 | 137 | 370 | 223 | 22 | 532 | 151 | 0 | 147 | 82 | 0 | 264 | 151 | 470 | 4,342 |
| Medical and Other Health Care Services | 190 | 179 | 109 | 123 | 147 | 228 | 124 | 96 | 77 | 83 | 216 | 170 | 20 | 400 | 184 | 0 | 120 | 114 | 0 | 173 | 156 | 346 | 3,284 |
| Residential Care Services | 169 | 150 | 140 | 66 | 57 | 227 | 39 | 62 | 85 | 80 | 201 | 124 | 37 | 211 | 77 | 0 | 108 | 148 | 0 | 278 | 49 | 192 | 2,531 |
| Social Assistance Services | 206 | 231 | 219 | 144 | 114 | 387 | 119 | 70 | 134 | 124 | 290 | 162 | 48 | 341 | 202 | 0 | 212 | 251 | 0 | 608 | 157 | 364 | 4,419 |
| Arts and Recreation Services, nfd | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 19 |
| Heritage Activities | 9 | 0 | 3 | 0 | 0 | 25 | 2 | 0 | 0 | 13 | 6 | 0 | 0 | 12 | 0 | 0 | 0 | 8 | 0 | 8 | 6 | 16 | 112 |

| 2 Digit Level | Rosewood | Brassall | Bundamba | Churchill - Yamanto | Ipswich - Central | Ipswich - East | Ipswich - North | Karalee - Barellan Point | Leichhardt - One Mile | North Ipswich - Tivoli | Raceview | Ripley | Riverview | Bellbird Park - Brookwater | Camira - Gaileas | Carole Park | Collingwood Park - Redbank | Goodna | New Chum | Redbank Plains | Springfield | Springfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Creative and Performing Arts Activities | 11 | 11 | 7 | 5 | 11 | 7 | 5 | 2 | 6 | 3 | 12 | 13 | 6 | 18 | 13 | 0 | 5 | 2 | 0 | 10 | 5 | 15 | 173 |
| Sports and Recreation Activities | 34 | 47 | 28 | 13 | 18 | 45 | 30 | 20 | 28 | 21 | 43 | 43 | 5 | 57 | 7 | 0 | 30 | 21 | 0 | 58 | 22 | 62 | 648 |
| Gambling Activities | 0 | 11 | 13 | 0 | 2 | 6 | 0 | 1 | 1 | 2 | 8 | 12 | 0 | 22 | 0 | 0 | 0 | 14 | 0 | 21 | 8 | 18 | 150 |
| Other Services, nfd | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Repair and Maintenance | 185 | 77 | 87 | 71 | 50 | 151 | 61 | 68 | 61 | 62 | 151 | 117 | 11 | 107 | 111 | 0 | 57 | 88 | 0 | 219 | 88 | 128 | 1,968 |
| Personal and Other Services | 127 | 177 | 89 | 62 | 61 | 205 | 58 | 65 | 54 | 69 | 126 | 128 | 33 | 183 | 116 | 0 | 89 | 150 | 0 | 185 | 78 | 219 | 2,290 |
| Private Households Employing Staff and Undifferentiated Goods and Service-Producing Activities of Households for Own Use | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 28 |
| **Total** | **6,252** | **5,080** | **4,012** | **3,362** | **2,795** | **7,766** | **2,797** | **3,080** | **2,833** | **2,742** | **7,089** | **5,671** | **844** | **9,062** | **4,461** | **0** | **4,144** | **3,904** | **0** | **8,769** | **3,790** | **9,490** | **100,108** |

Source: QGSO (2018), NIEIR (2019) and CDM Smith analysis

## P.1.3 Usual Resident Workforce Projections – SA2s in Ipswich City, 2021

| 2 Digit Level | Rosewood | Brassall | Bundamba | Churchill - Yamanto | Ipswich - Central | Ipswich - East | Ipswich - North | Karalee - Barellan Point | Leichhardt - One Mile | North Ipswich - Tivoli | Raceview | Ripley | Riverview | Bellbird Park - Brookwater | Camira - Gailes | Carole Park | Collingwood Park - Redbank | Goodna | New Chum | Redbank Plains | Springfield | Springfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Agriculture, Forestry and Fishing, nfd | 0 | 0 | 0 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 |
| Agriculture | 244 | 20 | 27 | 23 | 26 | 81 | 74 | 19 | 38 | 32 | 58 | 65 | 0 | 61 | 14 | 0 | 44 | 29 | 0 | 73 | 37 | 71 | 1,038 |
| Aquaculture | 0 | 9 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 6 | 0 | 0 | 42 |
| Forestry and Logging | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 |
| Fishing, Hunting and Trapping | 0 | 0 | 0 | 0 | 0 | 6 | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 24 |
| Agriculture, Forestry and Fishing Support Services | 0 | 0 | 0 | 5 | 0 | 0 | 8 | 0 | 11 | 6 | 0 | 0 | 0 | 15 | 12 | 0 | 0 | 5 | 0 | 14 | 11 | 13 | 100 |
| Mining, nfd | 0 | 0 | 0 | 10 | 0 | 3 | 0 | 0 | 3 | 0 | 2 | 0 | 0 | 23 | 12 | 0 | 6 | 0 | 0 | 11 | 3 | 15 | 89 |
| Coal Mining | 25 | 0 | 0 | 28 | 7 | 13 | 12 | 18 | 14 | 5 | 11 | 8 | 6 | 67 | 26 | 0 | 8 | 14 | 0 | 30 | 19 | 25 | 336 |
| Oil and Gas Extraction | 20 | 10 | 0 | 0 | 0 | 9 | 7 | 6 | 4 | 5 | 26 | 56 | 0 | 50 | 0 | 0 | 9 | 9 | 0 | 5 | 0 | 60 | 278 |
| Metal Ore Mining | 8 | 0 | 9 | 0 | 0 | 8 | 1 | 29 | 0 | 8 | 1 | 0 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 21 | 17 | 50 | 178 |
| Non-Metallic Mineral Mining and Quarrying | 21 | 8 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 11 | 8 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 1 | 54 |
| Exploration and Other Mining Support Services | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Manufacturing, nfd | 0 | 0 | 1 | 5 | 2 | 20 | 0 | 1 | 5 | 1 | 1 | 9 | 0 | 5 | 0 | 0 | 1 | 2 | 0 | 0 | 1 | 0 | 54 |
| Food Product Manufacturing | 199 | 180 | 133 | 129 | 48 | 196 | 111 | 44 | 172 | 122 | 246 | 166 | 28 | 238 | 138 | 0 | 233 | 312 | 0 | 592 | 90 | 200 | 3,577 |

| 2 Digit Level | Rose wood | Brass all | Bund amba | Churc hill - Yama nto | Ipswi ch - Centr al | Ipswi ch - East | Ipswi ch - North | Karal ee - Barell an Point | Leich hardt - One Mile | North Ipswi ch - Tivoli | Racev iew | Riple y | River view | Bellbi rd Park - Brook water | Camir a - Gailes | Carol e Park | Collin gwoo d Park - Redb ank | Good na | New Chum | Redb ank Plains | Sprin gfield | Sprin gfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Beverage and Tobacco Product Manufacturing | 2 | 8 | 11 | 0 | 6 | 16 | 4 | 0 | 0 | 0 | 0 | 16 | 0 | 32 | 17 | 0 | 0 | 22 | 0 | 21 | 0 | 3 | 158 |
| Textile, Leather, Clothing and Footwear Manufacturing | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wood Product Manufacturing | 27 | 0 | 0 | 0 | 17 | 20 | 5 | 14 | 10 | 9 | 13 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 124 |
| Pulp, Paper and Converted Paper Product Manufacturing | 4 | 9 | 0 | 6 | 0 | 0 | 0 | 9 | 0 | 5 | 6 | 0 | 3 | 33 | 11 | 0 | 32 | 20 | 0 | 18 | 5 | 5 | 167 |
| Printing (including the Reproduction of Recorded Media) | 6 | 0 | 10 | 0 | 18 | 25 | 7 | 0 | 11 | 9 | 7 | 0 | 0 | 19 | 15 | 0 | 12 | 0 | 0 | 15 | 27 | 0 | 179 |
| Petroleum and Coal Product Manufacturing | 0 | 11 | 0 | 0 | 0 | 3 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 3 | 0 | 0 | 31 |
| Basic Chemical and Chemical Product Manufacturing | 19 | 0 | 9 | 12 | 2 | 18 | 19 | 6 | 6 | 3 | 38 | 10 | 0 | 77 | 16 | 0 | 14 | 6 | 0 | 75 | 37 | 86 | 455 |
| Polymer Product and Rubber Product Manufacturing | 0 | 13 | 4 | 8 | 0 | 0 | 0 | 3 | 2 | 0 | 2 | 11 | 2 | 0 | 15 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 67 |
| Non-Metallic Mineral Product Manufacturing | 32 | 17 | 9 | 0 | 9 | 0 | 13 | 4 | 7 | 17 | 35 | 61 | 0 | 37 | 15 | 0 | 13 | 21 | 0 | 12 | 7 | 10 | 319 |
| Primary Metal and Metal Product Manufacturing | 50 | 5 | 69 | 14 | 0 | 51 | 9 | 12 | 19 | 23 | 36 | 28 | 0 | 0 | 23 | 0 | 60 | 28 | 0 | 0 | 22 | 17 | 466 |

| 2 Digit Level | Rosewood | Brassall | Bundamba | Churchill - Yamanto | Ipswich - Central | Ipswich - East | Ipswich - North | Karalee - Barellan Point | Leichhardt - One Mile | North Ipswich - Tivoli | Raceview | Ripley | Riverview | Bellbird Park - Brookwater | Camira - Gailes | Carole Park | Collingwood Park - Redbank | Goodna | New Chum | Redbank Plains | Springfield | Springfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Fabricated Metal Product Manufacturing | 37 | 14 | 8 | 0 | 0 | 19 | 14 | 3 | 10 | 5 | 6 | 37 | 0 | 10 | 0 | 0 | 18 | 0 | 0 | 43 | 21 | 19 | 263 |
| Transport Equipment Manufacturing | 86 | 19 | 34 | 25 | 18 | 74 | 9 | 27 | 48 | 8 | 34 | 38 | 5 | 33 | 55 | 0 | 26 | 42 | 0 | 102 | 8 | 56 | 747 |
| Machinery and Equipment Manufacturing | 2 | 7 | 0 | 1 | 13 | 30 | 6 | 0 | 4 | 0 | 20 | 26 | 0 | 14 | 0 | 0 | 0 | 26 | 0 | 0 | 2 | 0 | 150 |
| Furniture and Other Manufacturing | 11 | 1 | 0 | 0 | 0 | 4 | 15 | 12 | 1 | 0 | 0 | 14 | 9 | 22 | 11 | 0 | 22 | 0 | 0 | 21 | 8 | 19 | 169 |
| Electricity, Gas, Water and Waste Services, nfd | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 0 | 0 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 39 |
| Electricity Supply | 5 | 19 | 6 | 0 | 9 | 13 | 0 | 0 | 9 | 18 | 26 | 13 | 0 | 10 | 31 | 0 | 21 | 0 | 0 | 13 | 7 | 0 | 198 |
| Gas Supply | 11 | 0 | 6 | 0 | 0 | 0 | 18 | 0 | 0 | 10 | 7 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 9 | 6 | 11 | 87 |
| Water Supply, Sewerage and Drainage Services | 26 | 15 | 27 | 21 | 32 | 48 | 18 | 30 | 28 | 22 | 35 | 96 | 0 | 39 | 3 | 0 | 13 | 0 | 0 | 16 | 12 | 45 | 527 |
| Waste Collection, Treatment and Disposal Services | 70 | 21 | 1 | 26 | 4 | 37 | 7 | 24 | 0 | 31 | 56 | 14 | 7 | 39 | 6 | 0 | 36 | 16 | 0 | 68 | 19 | 39 | 518 |
| Construction, nfd | 53 | 9 | 36 | 18 | 37 | 43 | 19 | 14 | 21 | 25 | 20 | 31 | 7 | 110 | 57 | 0 | 24 | 21 | 0 | 58 | 12 | 66 | 681 |
| Building Construction | 111 | 141 | 89 | 74 | 105 | 216 | 57 | 63 | 39 | 94 | 136 | 296 | 18 | 326 | 139 | 0 | 117 | 102 | 0 | 180 | 104 | 157 | 2,563 |
| Heavy and Civil Engineering Construction | 53 | 48 | 34 | 14 | 25 | 47 | 44 | 47 | 26 | 12 | 49 | 8 | 13 | 2 | 72 | 0 | 0 | 8 | 0 | 41 | 9 | 93 | 643 |

| 2 Digit Level | Rose wood | Brass all | Bund amba | Churc hill - Yama nto | Ipswi ch - Centr al | Ipswi ch - East | Ipswi ch - North | Karal ee - Barell an Point | Leich hardt - One Mile | North Ipswi ch - Tivoli | Racev iew | Riple y | River view | Bellbi rd Park - Brook water | Camir a - Gailes | Carol e Park | Collin gwoo d Park - Redb ank | Good na | New Chum | Redb ank Plains | Sprin gfield | Sprin gfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Construction Services | 470 | 324 | 256 | 217 | 132 | 546 | 253 | 243 | 175 | 234 | 509 | 552 | 35 | 528 | 449 | 0 | 279 | 214 | 0 | 586 | 178 | 498 | 6,678 |
| Wholesale Trade, nfd | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Basic Material Wholesaling | 28 | 9 | 20 | 0 | 3 | 41 | 15 | 6 | 23 | 16 | 36 | 27 | 18 | 57 | 51 | 0 | 60 | 26 | 0 | 55 | 9 | 65 | 567 |
| Machinery and Equipment Wholesaling | 35 | 37 | 10 | 15 | 25 | 39 | 0 | 6 | 11 | 43 | 26 | 104 | 0 | 63 | 41 | 0 | 57 | 20 | 0 | 68 | 32 | 106 | 738 |
| Motor Vehicle and Motor Vehicle Parts Wholesaling | 26 | 19 | 29 | 0 | 20 | 18 | 24 | 2 | 10 | 31 | 37 | 69 | 4 | 51 | 6 | 0 | 5 | 18 | 0 | 87 | 23 | 38 | 516 |
| Grocery, Liquor and Tobacco Product Wholesaling | 29 | 25 | 0 | 10 | 14 | 73 | 16 | 22 | 21 | 4 | 24 | 41 | 13 | 0 | 31 | 0 | 61 | 17 | 0 | 95 | 30 | 50 | 575 |
| Other Goods Wholesaling | 24 | 39 | 30 | 24 | 0 | 26 | 6 | 0 | 0 | 0 | 17 | 5 | 2 | 0 | 4 | 0 | 22 | 22 | 0 | 43 | 4 | 11 | 279 |
| Commission-Based Wholesaling | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 20 |
| Retail Trade, nfd | 0 | 25 | 25 | 0 | 0 | 0 | 0 | 11 | 20 | 0 | 14 | 0 | 3 | 0 | 12 | 0 | 5 | 0 | 0 | 8 | 0 | 13 | 136 |
| Motor Vehicle and Motor Vehicle Parts Retailing | 97 | 88 | 63 | 71 | 0 | 97 | 64 | 32 | 40 | 19 | 67 | 66 | 3 | 123 | 30 | 0 | 58 | 21 | 0 | 139 | 34 | 88 | 1,204 |
| Fuel Retailing | 47 | 10 | 28 | 8 | 14 | 21 | 17 | 20 | 21 | 0 | 16 | 41 | 0 | 25 | 21 | 0 | 11 | 29 | 0 | 59 | 28 | 45 | 462 |
| Food Retailing | 325 | 264 | 297 | 188 | 82 | 285 | 102 | 176 | 120 | 117 | 355 | 375 | 22 | 422 | 190 | 0 | 209 | 142 | 0 | 401 | 152 | 250 | 4,476 |
| Other Store-Based Retailing | 289 | 243 | 279 | 194 | 148 | 429 | 170 | 146 | 107 | 139 | 441 | 414 | 48 | 544 | 263 | 0 | 271 | 239 | 0 | 567 | 173 | 679 | 5,783 |
| Non-Store Retailing and Retail | 9 | 0 | 10 | 7 | 0 | 11 | 9 | 0 | 0 | 0 | 3 | 0 | 0 | 16 | 7 | 0 | 0 | 0 | 0 | 9 | 6 | 6 | 93 |

| 2 Digit Level | Rose wood | Brass all | Bund amba | Churc hill - Yama nto | Ipswi ch - Centr al | Ipswi ch - East | Ipswi ch - North | Karal ee - Barell an Point | Leich hardt - One Mile | North Ipswi ch - Tivoli | Racev iew | Riple y | River view | Bellbi rd Park - Brook water | Camir a - Gailes | Carol e Park | Collin gwoo d Park - Redb ank | Good na | New Chum | Redb ank Plains | Sprin gfield | Sprin gfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Commission-Based Buying and/or Selling | | | | | | | | | | | | | | | | | | | | | | | |
| Accommodation and Food Services, nfd | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 14 |
| Accommodation | 10 | 29 | 12 | 12 | 25 | 43 | 0 | 26 | 0 | 28 | 42 | 0 | 14 | 26 | 18 | 0 | 8 | 29 | 0 | 32 | 15 | 52 | 421 |
| Food and Beverage Services | 307 | 401 | 277 | 184 | 161 | 478 | 139 | 223 | 212 | 156 | 497 | 348 | 68 | 646 | 251 | 0 | 321 | 183 | 0 | 499 | 351 | 804 | 6,509 |
| Transport, Postal and Warehousing, nfd | 47 | 15 | 34 | 14 | 10 | 28 | 24 | 18 | 25 | 7 | 36 | 68 | 0 | 46 | 26 | 0 | 13 | 25 | 0 | 54 | 24 | 52 | 566 |
| Road Transport | 264 | 163 | 197 | 92 | 83 | 271 | 53 | 53 | 94 | 45 | 202 | 68 | 52 | 262 | 131 | 0 | 143 | 184 | 0 | 470 | 168 | 256 | 3,251 |
| Rail Transport | 0 | 6 | 0 | 0 | 0 | 13 | 4 | 12 | 6 | 0 | 3 | 0 | 2 | 0 | 8 | 0 | 1 | 2 | 0 | 22 | 17 | 26 | 121 |
| Water Transport | 0 | 0 | 10 | 0 | 0 | 8 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 9 | 9 | 0 | 46 |
| Air and Space Transport | 14 | 15 | 3 | 15 | 7 | 24 | 26 | 22 | 9 | 18 | 8 | 46 | 0 | 50 | 5 | 0 | 17 | 5 | 0 | 3 | 19 | 52 | 357 |
| Other Transport | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 0 | 8 | 32 |
| Postal and Courier Pick-up and Delivery Services | 37 | 54 | 36 | 21 | 19 | 83 | 12 | 22 | 18 | 34 | 91 | 50 | 17 | 105 | 72 | 0 | 41 | 53 | 0 | 108 | 35 | 125 | 1,033 |
| Transport Support Services | 23 | 35 | 17 | 10 | 8 | 46 | 3 | 15 | 19 | 22 | 41 | 33 | 6 | 48 | 12 | 0 | 48 | 20 | 0 | 98 | 25 | 63 | 593 |
| Warehousing and Storage Services | 57 | 33 | 53 | 28 | 32 | 78 | 1 | 14 | 38 | 27 | 69 | 37 | 23 | 115 | 61 | 0 | 82 | 83 | 0 | 292 | 110 | 176 | 1,408 |

| 2 Digit Level | Rose wood | Brass all | Bund amba | Churc hill - Yama nto | Ipswi ch - Centr al | Ipswi ch - East | Ipswi ch - North | Karal ee - Barell an Point | Leich hardt - One Mile | North Ipswi ch - Tivoli | Racev iew | Riple y | River view | Bellbi rd Park - Brook water | Camir a - Gailes | Carol e Park | Collin gwoo d Park - Redb ank | Good na | New Chum | Redb ank Plains | Sprin gfield | Sprin gfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Information Media and Telecommunications, nfd | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 18 |
| Publishing (except Internet and Music Publishing) | 11 | 0 | 1 | 2 | 7 | 0 | 7 | 4 | 0 | 0 | 0 | 0 | 0 | 15 | 2 | 0 | 1 | 2 | 0 | 4 | 5 | 0 | 61 |
| Motion Picture and Sound Recording Activities | 0 | 27 | 25 | 7 | 16 | 15 | 22 | 6 | 0 | 10 | 33 | 29 | 0 | 67 | 23 | 0 | 11 | 5 | 0 | 14 | 15 | 40 | 366 |
| Broadcasting (except Internet) | 15 | 10 | 0 | 8 | 2 | 7 | 0 | 3 | 9 | 0 | 0 | 0 | 0 | 15 | 3 | 0 | 0 | 0 | 0 | 30 | 0 | 15 | 117 |
| Internet Publishing and Broadcasting | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 6 |
| Telecommunications Services | 8 | 25 | 10 | 20 | 5 | 36 | 12 | 24 | 0 | 28 | 17 | 25 | 5 | 58 | 16 | 0 | 18 | 25 | 0 | 55 | 34 | 137 | 559 |
| Internet Service Providers, Web Search Portals and Data Processing Services | 0 | 7 | 0 | 10 | 4 | 1 | 0 | 10 | 0 | 11 | 13 | 0 | 10 | 33 | 19 | 0 | 7 | 0 | 0 | 27 | 7 | 57 | 215 |
| Library and Other Information Services | 17 | 0 | 0 | 0 | 0 | 2 | 10 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 3 | 14 | 1 | 71 |
| Financial and Insurance Services, nfd | 0 | 3 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 3 | 0 | 2 | 0 | 0 | 0 | 0 | 3 | 28 |
| Finance | 80 | 86 | 16 | 79 | 30 | 89 | 28 | 13 | 52 | 17 | 81 | 137 | 13 | 79 | 60 | 0 | 29 | 25 | 0 | 94 | 55 | 236 | 1,299 |

| 2 Digit Level | Rosewood | Brassall | Bundamba | Churchill - Yamanto | Ipswich - Central | Ipswich - East | Ipswich - North | Karalee - Barellan Point | Leichhardt - One Mile | North Ipswich - Tivoli | Raceview | Ripley | Riverview | Bellbird Park - Brookwater | Camira - Gailes | Carole Park | Collingwood Park - Redbank | Goodna | New Chum | Redbank Plains | Springfield | Springfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Insurance and Superannuation Funds | 11 | 39 | 44 | 15 | 12 | 29 | 16 | 22 | 4 | 7 | 17 | 107 | 10 | 96 | 38 | 0 | 48 | 34 | 0 | 59 | 32 | 155 | 794 |
| Auxiliary Finance and Insurance Services | 51 | 32 | 20 | 30 | 13 | 24 | 19 | 34 | 19 | 34 | 63 | 116 | 9 | 114 | 30 | 0 | 24 | 32 | 0 | 118 | 34 | 109 | 924 |
| Rental, Hiring and Real Estate Services, nfd | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 0 | 3 | 1 | 0 | 1 | 1 | 0 | 2 | 1 | 3 | 27 |
| Rental and Hiring Services (except Real Estate) | 18 | 22 | 0 | 22 | 0 | 67 | 21 | 4 | 15 | 36 | 27 | 0 | 7 | 10 | 16 | 0 | 31 | 14 | 0 | 101 | 37 | 63 | 509 |
| Property Operators and Real Estate Services | 81 | 86 | 97 | 47 | 45 | 129 | 26 | 42 | 34 | 44 | 127 | 136 | 7 | 209 | 86 | 0 | 62 | 52 | 0 | 125 | 54 | 200 | 1,689 |
| Professional, Scientific and Technical Services, nfd | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 7 | 8 | 31 |
| Professional, Scientific and Technical Services (except Computer System Design and Related Services) | 247 | 215 | 148 | 110 | 132 | 291 | 167 | 154 | 41 | 79 | 207 | 376 | 22 | 602 | 132 | 0 | 131 | 73 | 0 | 199 | 126 | 466 | 3,919 |
| Computer System Design and Related Services | 71 | 54 | 25 | 29 | 25 | 51 | 21 | 49 | 6 | 25 | 66 | 0 | 17 | 187 | 37 | 0 | 47 | 16 | 0 | 120 | 48 | 182 | 1,076 |
| Administrative and Support Services, nfd | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 2 | 1 | 0 | 1 | 1 | 0 | 2 | 1 | 2 | 19 |

| 2 Digit Level | Rosewood | Brassall | Bundamba | Churchill - Yamanto | Ipswich - Central | Ipswich - East | Ipswich - North | Karalee - Barellan Point | Leichhardt - One Mile | North Ipswich - Tivoli | Raceview | Ripley | Riverview | Bellbird Park - Brookwater | Camira - Gailes | Carole Park | Collingwood Park - Redbank | Goodna | New Chum | Redbank Plains | Springfield | Springfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Administrative Services | 109 | 64 | 90 | 43 | 38 | 150 | 5 | 25 | 73 | 9 | 120 | 106 | 27 | 166 | 86 | 0 | 69 | 128 | 0 | 218 | 93 | 225 | 1,843 |
| Building Cleaning, Pest Control and Other Support Services | 186 | 140 | 137 | 51 | 100 | 249 | 49 | 59 | 129 | 40 | 155 | 190 | 40 | 168 | 119 | 0 | 93 | 144 | 0 | 251 | 98 | 140 | 2,536 |
| Public Administration and Safety, nfd | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 0 | 0 | 21 |
| Public Administration | 149 | 174 | 186 | 136 | 174 | 375 | 79 | 184 | 98 | 154 | 310 | 307 | 26 | 423 | 118 | 0 | 135 | 105 | 0 | 243 | 126 | 372 | 3,876 |
| Defence | 398 | 137 | 9 | 286 | 43 | 67 | 73 | 53 | 24 | 0 | 258 | 894 | 6 | 514 | 18 | 0 | 23 | 25 | 0 | 40 | 54 | 348 | 3,269 |
| Public Order, Safety and Regulatory Services | 248 | 163 | 73 | 74 | 69 | 195 | 56 | 148 | 92 | 90 | 202 | 246 | 24 | 310 | 63 | 0 | 76 | 83 | 0 | 242 | 115 | 378 | 2,945 |
| Education and Training, nfd | 18 | 18 | 22 | 12 | 8 | 14 | 3 | 0 | 8 | 9 | 27 | 0 | 0 | 49 | 20 | 0 | 6 | 5 | 0 | 21 | 13 | 30 | 284 |
| Preschool and School Education | 605 | 437 | 295 | 252 | 313 | 678 | 328 | 304 | 237 | 263 | 607 | 830 | 37 | 744 | 319 | 0 | 332 | 242 | 0 | 509 | 306 | 746 | 8,384 |
| Tertiary Education | 95 | 46 | 58 | 36 | 60 | 141 | 60 | 57 | 47 | 37 | 67 | 113 | 14 | 241 | 73 | 0 | 70 | 68 | 0 | 85 | 62 | 220 | 1,649 |
| Adult, Community and Other Education | 40 | 13 | 13 | 24 | 19 | 51 | 39 | 9 | 11 | 12 | 35 | 107 | 5 | 90 | 33 | 0 | 30 | 26 | 0 | 32 | 17 | 58 | 666 |
| Health Care and Social Assistance, nfd | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hospitals | 281 | 288 | 144 | 161 | 132 | 415 | 179 | 175 | 152 | 146 | 412 | 315 | 23 | 715 | 159 | 0 | 166 | 72 | 0 | 297 | 159 | 535 | 4,926 |
| Medical and Other Health Care Services | 237 | 208 | 126 | 137 | 171 | 247 | 147 | 103 | 87 | 94 | 231 | 268 | 21 | 542 | 215 | 0 | 143 | 140 | 0 | 208 | 188 | 413 | 3,927 |

| 2 Digit Level | Rosewood | Brassall | Bundamba | Churchill - Yamanto | Ipswich - Central | Ipswich - East | Ipswich - North | Karalee - Barellan Point | Leichhardt - One Mile | North Ipswich - Tivoli | Raceview | Ripley | Riverview | Bellbird Park - Brookwater | Camira - Gailes | Carole Park | Collingwood Park - Redbank | Goodna | New Chum | Redbank Plains | Springfield | Springfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Residential Care Services | 194 | 170 | 166 | 66 | 55 | 254 | 41 | 68 | 92 | 87 | 217 | 207 | 43 | 273 | 80 | 0 | 126 | 173 | 0 | 338 | 48 | 245 | 2,943 |
| Social Assistance Services | 247 | 262 | 257 | 150 | 115 | 428 | 151 | 70 | 137 | 134 | 305 | 249 | 53 | 435 | 220 | 0 | 243 | 295 | 0 | 759 | 175 | 440 | 5,123 |
| Arts and Recreation Services, nfd | 7 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 21 |
| Heritage Activities | 11 | 0 | 3 | 0 | 0 | 29 | 1 | 0 | 0 | 13 | 6 | 0 | 0 | 17 | 0 | 0 | 0 | 9 | 0 | 10 | 8 | 19 | 127 |
| Creative and Performing Arts Activities | 14 | 15 | 9 | 6 | 12 | 8 | 4 | 2 | 9 | 3 | 15 | 26 | 8 | 21 | 14 | 0 | 6 | 2 | 0 | 13 | 4 | 18 | 208 |
| Sports and Recreation Activities | 36 | 55 | 28 | 12 | 20 | 45 | 39 | 22 | 35 | 26 | 48 | 77 | 7 | 68 | 4 | 0 | 38 | 25 | 0 | 70 | 25 | 72 | 753 |
| Gambling Activities | 0 | 15 | 12 | 0 | 2 | 5 | 0 | 1 | 1 | 2 | 8 | 23 | 0 | 30 | 0 | 0 | 0 | 16 | 0 | 27 | 9 | 22 | 173 |
| Other Services, nfd | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Repair and Maintenance | 219 | 86 | 99 | 80 | 56 | 174 | 71 | 69 | 67 | 70 | 160 | 176 | 10 | 111 | 117 | 0 | 58 | 95 | 0 | 249 | 101 | 140 | 2,210 |
| Personal and Other Services | 148 | 217 | 102 | 60 | 66 | 230 | 70 | 67 | 57 | 83 | 126 | 185 | 39 | 228 | 127 | 0 | 103 | 173 | 0 | 218 | 83 | 253 | 2,634 |
| Private Households Employing Staff and Undifferentiated Goods and Service-Producing Activities of Households for Own Use | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 34 |
| **Total** | **7,127** | **5,535** | **4,434** | **3,508** | **2,907** | **8,206** | **3,171** | **3,254** | **2,994** | **3,010** | **7,396** | **8,601** | **908** | **11,130** | **4,637** | **0** | **4,588** | **4,121** | **0** | **9,992** | **4,099** | **10,890** | **110,507** |

Source: QGSO (2018), NIEIR (2019) and CDM Smith analysis

## P.1.4 Usual Resident Workforce Projections – SA2s in Ipswich City, 2015-16

| 2 Digit Level | Rosewood | Brassall | Bundamba | Churchill - Yamanto | Ipswich - Central | Ipswich - East | Ipswich - North | Karalee - Barellan Point | Leichhardt - One Mile | North Ipswich - Tivoli | Raceview | Ripley | Riverview | Bellbird Park - Brookwater | Camira - Gailes | Carole Park | Collingwood Park - Redbank | Goodna | New Chum | Redbank Plains | Springfield | Springfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Agriculture, Forestry and Fishing, nfd | - | - | - | - | - | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 8 |
| Agriculture | 189 | 21 | 21 | 21 | 19 | 47 | 40 | 19 | 31 | 17 | 37 | 13 | 4 | 24 | 12 | - | 23 | 16 | - | 40 | 21 | 33 | 647 |
| Aquaculture | - | 5 | - | - | - | 6 | - | - | - | - | 4 | - | - | - | - | - | 6 | - | - | 3 | - | - | 24 |
| Forestry and Logging | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | - | - | - | - | 9 |
| Fishing, Hunting and Trapping | - | - | - | - | - | 3 | 4 | - | - | 5 | - | - | - | - | - | - | - | - | - | - | - | - | 12 |
| Agriculture, Forestry and Fishing Support Services | 6 | 3 | - | 5 | - | - | 4 | - | 6 | 3 | - | - | - | 6 | 7 | - | - | 5 | - | 10 | 6 | 6 | 70 |
| Mining, nfd | 4 | - | - | 6 | - | 4 | - | - | 4 | - | 6 | - | - | 10 | 11 | - | 5 | - | - | 9 | 4 | 14 | 78 |
| Coal Mining | 39 | 6 | 3 | 28 | 9 | 19 | 12 | 16 | 13 | 8 | 29 | 14 | 3 | 36 | 16 | - | 6 | 9 | - | 23 | 15 | 33 | 338 |
| Oil and Gas Extraction | 11 | 7 | - | - | - | 7 | 3 | 6 | 3 | 5 | 16 | 10 | - | 26 | 3 | - | 5 | 7 | - | 7 | 6 | 32 | 153 |
| Metal Ore Mining | 5 | - | 4 | - | - | 9 | 4 | 15 | - | 4 | 7 | - | - | 16 | - | - | - | - | - | 9 | 8 | 24 | 105 |
| Non-Metallic Mineral Mining and Quarrying | 21 | 6 | - | 4 | - | 3 | - | - | - | 10 | 8 | - | - | 4 | - | - | 3 | - | - | 6 | - | 3 | 69 |
| Exploration and Other Mining Support Services | 7 | - | 5 | - | - | 6 | 5 | 5 | - | 3 | 5 | - | - | 13 | 3 | - | - | 7 | - | 3 | 3 | 8 | 73 |
| Manufacturing, nfd | 24 | 22 | 23 | 21 | 22 | 65 | 8 | 16 | 26 | 14 | 37 | 16 | 9 | 49 | 36 | - | 28 | 41 | - | 76 | 25 | 30 | 589 |

| 2 Digit Level | Rose wood | Brass all | Bund amba | Churc hill - Yama nto | Ipswi ch - Centr al | Ipswi ch - East | Ipswi ch - North | Karal ee - Barell an Point | Leich hardt - One Mile | North Ipswi ch - Tivoli | Racev iew | Riple y | River view | Bellbi rd Park - Brook water | Camir a - Gailes | Carol e Park | Collin gwoo d Park - Redb ank | Good na | New Chum | Redb ank Plains | Sprin gfield | Sprin gfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Food Product Manufacturing | 174 | 166 | 158 | 125 | 58 | 224 | 67 | 51 | 134 | 98 | 233 | 56 | 65 | 164 | 135 | - | 204 | 234 | - | 435 | 94 | 170 | 3,045 |
| Beverage and Tobacco Product Manufacturing | 11 | 11 | 10 | 3 | 7 | 22 | 6 | 3 | 6 | 5 | 6 | 6 | - | 26 | 21 | - | 8 | 20 | - | 26 | 10 | 18 | 226 |
| Textile, Leather, Clothing and Footwear Manufacturing | - | 8 | 7 | 8 | 4 | - | 5 | - | - | - | - | 4 | - | 4 | 16 | - | - | 17 | - | 14 | 8 | 5 | 100 |
| Wood Product Manufacturing | 32 | 7 | 12 | 6 | 16 | 33 | 7 | 16 | 11 | 10 | 27 | 6 | - | 13 | 12 | - | 10 | 6 | - | 16 | 6 | 12 | 255 |
| Pulp, Paper and Converted Paper Product Manufacturing | 6 | 6 | 3 | 3 | - | 4 | - | 6 | - | 5 | 3 | 4 | 3 | 21 | 15 | - | 19 | 21 | - | 21 | 12 | 18 | 173 |
| Printing (including the Reproduction of Recorded Media) | 10 | - | 7 | - | 8 | 21 | 4 | 4 | 6 | 5 | 13 | - | - | 21 | 15 | - | 8 | 11 | - | 15 | 17 | 17 | 184 |
| Petroleum and Coal Product Manufacturing | - | 7 | - | - | - | 5 | - | 4 | - | - | - | - | - | 6 | 4 | - | 6 | - | - | 4 | - | - | 35 |
| Basic Chemical and Chemical Product Manufacturing | 12 | 6 | 11 | 12 | 6 | 25 | 12 | 10 | 7 | 6 | 31 | 7 | - | 49 | 22 | - | 20 | 18 | - | 57 | 40 | 62 | 414 |
| Polymer Product and Rubber Product Manufacturing | 12 | 24 | 15 | 12 | 7 | 21 | 4 | 10 | 7 | 4 | 20 | 12 | 8 | 28 | 45 | - | 27 | 21 | - | 52 | 16 | 26 | 372 |
| Non-Metallic Mineral Product Manufacturing | 33 | 35 | 23 | 18 | 11 | 25 | 17 | 14 | 19 | 20 | 52 | 23 | 4 | 39 | 27 | - | 21 | 33 | - | 43 | 17 | 31 | 505 |
| Primary Metal and Metal | 57 | 34 | 59 | 37 | 18 | 73 | 21 | 23 | 27 | 24 | 68 | 23 | 5 | 53 | 45 | - | 51 | 37 | - | 71 | 35 | 50 | 813 |

| 2 Digit Level | Rosewood | Brassall | Bundamba | Churchill - Yamanto | Ipswich - Central | Ipswich - East | Ipswich - North | Karalee - Barellan Point | Leichhardt - One Mile | North Ipswich - Tivoli | Raceview | Ripley | Riverview | Bellbird Park - Brookwater | Camira - Gailes | Carole Park | Collingwood Park - Redbank | Goodna | New Chum | Redbank Plains | Springfield | Springfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Product Manufacturing | | | | | | | | | | | | | | | | | | | | | | | |
| Fabricated Metal Product Manufacturing | 40 | 30 | 22 | 14 | 9 | 46 | 15 | 20 | 23 | 18 | 34 | 22 | 3 | 62 | 48 | - | 36 | 29 | - | 92 | 34 | 55 | 652 |
| Transport Equipment Manufacturing | 68 | 35 | 32 | 37 | 27 | 74 | 24 | 32 | 34 | 24 | 67 | 30 | 7 | 58 | 66 | - | 34 | 49 | - | 103 | 30 | 73 | 904 |
| Machinery and Equipment Manufacturing | 26 | 27 | 20 | 21 | 16 | 54 | 17 | 23 | 15 | 7 | 40 | 20 | 4 | 59 | 37 | - | 25 | 46 | - | 63 | 28 | 67 | 616 |
| Furniture and Other Manufacturing | 21 | 8 | 9 | 7 | 4 | 27 | 11 | 12 | 12 | 7 | 14 | 8 | 7 | 31 | 24 | - | 23 | 17 | - | 36 | 15 | 32 | 325 |
| Electricity, Gas, Water and Waste Services, nfd | - | - | - | - | - | - | - | - | - | - | 9 | - | - | 9 | - | - | - | - | - | - | - | - | 19 |
| Electricity Supply | 20 | 24 | 13 | 15 | 8 | 24 | 10 | 15 | 8 | 9 | 38 | 12 | - | 33 | 21 | - | 14 | 5 | - | 19 | 12 | 22 | 324 |
| Gas Supply | 5 | - | 3 | - | - | - | 8 | - | - | 5 | 4 | - | - | 3 | - | - | - | - | - | 4 | 3 | 5 | 40 |
| Water Supply, Sewerage and Drainage Services | 32 | 20 | 14 | 19 | 19 | 37 | 19 | 26 | 25 | 17 | 34 | 24 | - | 24 | 5 | - | 12 | 4 | - | 16 | 11 | 28 | 387 |
| Waste Collection, Treatment and Disposal Services | 39 | 17 | 7 | 18 | 3 | 31 | 6 | 18 | 3 | 21 | 34 | 9 | 6 | 30 | 14 | - | 24 | 13 | - | 51 | 16 | 30 | 388 |
| Construction, nfd | 28 | 11 | 22 | 11 | 23 | 29 | 10 | 9 | 12 | 15 | 15 | 9 | 3 | 41 | 35 | - | 15 | 13 | - | 38 | 9 | 34 | 384 |
| Building Construction | 94 | 95 | 79 | 55 | 76 | 162 | 50 | 66 | 34 | 69 | 136 | 79 | 17 | 194 | 120 | - | 90 | 80 | - | 157 | 78 | 166 | 1,897 |

| 2 Digit Level | Rose wood | Brass all | Bund amba | Churc hill - Yama nto | Ipswi ch - Centr al | Ipswi ch - East | Ipswi ch - North | Karal ee - Barell an Point | Leich hardt - One Mile | North Ipswi ch - Tivoli | Racev iew | Riple y | River view | Bellbi rd Park - Brook water | Camir a - Gailes | Carol e Park | Collin gwoo d Park - Redb ank | Good na | New Chum | Redb ank Plains | Sprin gfield | Sprin gfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Heavy and Civil Engineering Construction | 47 | 43 | 40 | 23 | 18 | 54 | 31 | 42 | 28 | 20 | 47 | 14 | 9 | 55 | 52 | - | 21 | 21 | - | 77 | 30 | 78 | 749 |
| Construction Services | 306 | 243 | 186 | 197 | 124 | 383 | 182 | 201 | 138 | 172 | 382 | 161 | 30 | 336 | 342 | - | 189 | 176 | - | 418 | 160 | 351 | 4,675 |
| Wholesale Trade, nfd | 3 | 5 | 8 | 6 | - | 4 | - | 11 | - | 5 | 5 | 4 | - | 9 | - | - | 3 | 5 | - | 12 | 6 | 12 | 100 |
| Basic Material Wholesaling | 38 | 18 | 29 | 10 | 9 | 44 | 16 | 14 | 19 | 18 | 44 | 8 | 11 | 47 | 42 | - | 42 | 27 | - | 71 | 22 | 50 | 578 |
| Machinery and Equipment Wholesaling | 31 | 31 | 15 | 17 | 20 | 44 | 15 | 25 | 13 | 23 | 39 | 23 | - | 81 | 59 | - | 44 | 30 | - | 80 | 39 | 108 | 737 |
| Motor Vehicle and Motor Vehicle Parts Wholesaling | 18 | 17 | 22 | 10 | 12 | 21 | 15 | 3 | 12 | 19 | 31 | 17 | 3 | 39 | 23 | - | 16 | 28 | - | 58 | 23 | 44 | 432 |
| Grocery, Liquor and Tobacco Product Wholesaling | 41 | 32 | 26 | 19 | 17 | 63 | 19 | 26 | 23 | 16 | 45 | 19 | 10 | 51 | 34 | - | 43 | 44 | - | 85 | 28 | 65 | 707 |
| Other Goods Wholesaling | 22 | 23 | 21 | 20 | - | 29 | 9 | 3 | 4 | 5 | 29 | 8 | 5 | 28 | 23 | - | 24 | 25 | - | 51 | 20 | 44 | 393 |
| Commission-Based Wholesaling | - | - | - | - | - | 4 | - | 5 | - | - | - | - | - | - | 5 | - | - | - | - | 5 | - | - | 18 |
| Retail Trade, nfd | 13 | 22 | 23 | 5 | 3 | 17 | 4 | 13 | 17 | - | 19 | 6 | 3 | 22 | 21 | - | 13 | 12 | - | 26 | 13 | 26 | 279 |
| Motor Vehicle and Motor Vehicle Parts Retailing | 58 | 61 | 50 | 58 | 13 | 73 | 35 | 28 | 31 | 21 | 69 | 23 | 7 | 69 | 28 | - | 39 | 21 | - | 92 | 28 | 81 | 887 |
| Fuel Retailing | 23 | 17 | 19 | 11 | 11 | 21 | 11 | 12 | 19 | 6 | 18 | 9 | - | 27 | 16 | - | 11 | 20 | - | 43 | 17 | 29 | 339 |
| Food Retailing | 231 | 232 | 194 | 162 | 83 | 254 | 76 | 122 | 105 | 98 | 298 | 100 | 21 | 264 | 170 | - | 160 | 135 | - | 371 | 137 | 243 | 3,456 |
| Other Store-Based Retailing | 224 | 246 | 220 | 182 | 152 | 401 | 121 | 138 | 128 | 132 | 419 | 141 | 43 | 372 | 234 | - | 212 | 194 | - | 432 | 170 | 484 | 4,644 |

| 2 Digit Level | Rosewood | Brassall | Bundamba | Churchill - Yamanto | Ipswich - Central | Ipswich - East | Ipswich - North | Karalee - Barellan Point | Leichhardt - One Mile | North Ipswich - Tivoli | Raceview | Ripley | Riverview | Bellbird Park - Brookwater | Camira - Gailes | Carole Park | Collingwood Park - Redbank | Goodna | New Chum | Redbank Plains | Springfield | Springfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Non-Store Retailing and Retail Commission-Based Buying and/or Selling | 4 | 4 | 6 | 4 | - | 8 | 4 | - | - | - | 3 | - | - | 7 | 4 | - | - | - | - | 4 | 3 | 9 | 62 |
| Accommodation and Food Services, nfd | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | - | 0 | 0 | 1 | 5 |
| Accommodation | 26 | 26 | 15 | 10 | 19 | 36 | 3 | 15 | 6 | 20 | 30 | 3 | 11 | 26 | 23 | - | 12 | 28 | - | 34 | 15 | 38 | 396 |
| Food and Beverage Services | 225 | 297 | 211 | 156 | 160 | 425 | 102 | 142 | 167 | 134 | 402 | 130 | 51 | 357 | 231 | - | 212 | 189 | - | 379 | 228 | 488 | 4,688 |
| Transport, Postal and Warehousing, nfd | 23 | 7 | 15 | 10 | 7 | 16 | 13 | 9 | 12 | 3 | 18 | 11 | - | 15 | 19 | - | 5 | 12 | - | 27 | 11 | 24 | 257 |
| Road Transport | 235 | 130 | 153 | 84 | 68 | 216 | 53 | 71 | 104 | 68 | 198 | 60 | 42 | 183 | 161 | - | 138 | 172 | - | 355 | 151 | 219 | 2,863 |
| Rail Transport | 58 | 42 | 47 | 37 | 10 | 91 | 29 | 26 | 29 | 28 | 85 | 20 | 5 | 26 | 25 | - | 29 | 24 | - | 52 | 33 | 43 | 737 |
| Water Transport | - | - | 5 | - | - | 4 | - | 4 | - | - | - | - | - | 3 | - | - | - | - | - | 4 | 8 | 5 | 35 |
| Air and Space Transport | 12 | 11 | 3 | 11 | 3 | 16 | 12 | 15 | 7 | 10 | 10 | 10 | - | 25 | 5 | - | 9 | 4 | - | 8 | 12 | 39 | 221 |
| Other Transport | - | - | - | - | - | - | - | 9 | - | - | - | - | - | - | - | - | - | - | - | 9 | - | 4 | 22 |
| Postal and Courier Pick-up and Delivery Services | 28 | 30 | 34 | 26 | 16 | 50 | 19 | 16 | 14 | 22 | 59 | 11 | 12 | 54 | 46 | - | 26 | 41 | - | 72 | 27 | 66 | 667 |
| Transport Support Services | 21 | 21 | 15 | 10 | 8 | 31 | 9 | 13 | 13 | 13 | 32 | 13 | 6 | 34 | 14 | - | 29 | 25 | - | 70 | 17 | 52 | 444 |

| 2 Digit Level | Rosewood | Brassall | Bundamba | Churchill - Yamanto | Ipswich - Central | Ipswich - East | Ipswich - North | Karalee - Barellan Point | Leichhardt - One Mile | North Ipswich - Tivoli | Raceview | Ripley | Riverview | Bellbird Park - Brookwater | Camira - Gailes | Carole Park | Collingwood Park - Redbank | Goodna | New Chum | Redbank Plains | Springfield | Springfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Warehousing and Storage Services | 23 | 21 | 30 | 17 | 18 | 42 | 6 | 9 | 24 | 13 | 40 | 6 | 13 | 51 | 48 | - | 44 | 48 | - | 139 | 63 | 90 | 744 |
| Information Media and Telecommunications, nfd | - | - | - | - | - | 5 | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | 4 | 12 |
| Publishing (except Internet and Music Publishing) | 11 | - | 5 | 3 | 12 | 11 | 4 | 5 | - | 3 | 4 | - | - | 11 | 3 | - | 4 | 4 | - | 5 | 5 | 5 | 100 |
| Motion Picture and Sound Recording Activities | - | 14 | 13 | 3 | 9 | 11 | 10 | 5 | - | 5 | 20 | 7 | - | 28 | 13 | - | 8 | 5 | - | 10 | 7 | 21 | 187 |
| Broadcasting (except Internet) | 7 | 7 | - | 5 | 5 | 4 | - | 6 | 5 | - | 4 | - | - | 6 | 4 | - | - | - | - | 14 | - | 11 | 77 |
| Internet Publishing and Broadcasting | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | - | 0 | 0 | 0 | 4 |
| Telecommunications Services | 9 | 17 | 17 | 14 | 9 | 30 | 9 | 21 | - | 19 | 18 | 10 | 4 | 42 | 24 | - | 15 | 23 | - | 48 | 23 | 74 | 426 |
| Internet Service Providers, Web Search Portals and Data Processing Services | - | 6 | - | 5 | 4 | 6 | - | 7 | - | 5 | 6 | - | 5 | 14 | 9 | - | 5 | - | - | 14 | 3 | 25 | 115 |
| Library and Other Information Services | 10 | - | - | - | - | 4 | 4 | - | - | 7 | - | - | - | - | - | - | 4 | - | - | 4 | 7 | 4 | 47 |
| Financial and Insurance Services, nfd | - | 3 | - | - | - | 5 | - | - | - | - | - | - | - | 12 | 3 | - | 3 | - | - | 3 | - | 5 | 35 |

| 2 Digit Level | Rosewood | Brassall | Bundamba | Churchill - Yamanto | Ipswich - Central | Ipswich - East | Ipswich - North | Karalee - Barellan Point | Leichhardt - One Mile | North Ipswich - Tivoli | Raceview | Ripley | Riverview | Bellbird Park - Brookwater | Camira - Gailes | Carole Park | Collingwood Park - Redbank | Goodna | New Chum | Redbank Plains | Springfield | Springfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Finance | 57 | 66 | 32 | 63 | 32 | 80 | 32 | 30 | 32 | 19 | 93 | 46 | 10 | 82 | 50 | - | 34 | 27 | - | 78 | 49 | 161 | 1,070 |
| Insurance and Superannuation Funds | 10 | 26 | 28 | 15 | 13 | 39 | 9 | 17 | 9 | 5 | 26 | 19 | 6 | 70 | 37 | - | 44 | 34 | - | 58 | 30 | 124 | 620 |
| Auxiliary Finance and Insurance Services | 30 | 23 | 17 | 17 | 12 | 26 | 15 | 23 | 15 | 17 | 43 | 24 | 6 | 56 | 26 | - | 19 | 29 | - | 63 | 24 | 86 | 572 |
| Rental, Hiring and Real Estate Services, nfd | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | - | 0 | 0 | - | 1 | 0 | 1 | 11 |
| Rental and Hiring Services (except Real Estate) | 18 | 17 | 11 | 14 | 3 | 48 | 18 | 14 | 13 | 21 | 24 | 10 | 3 | 28 | 17 | - | 22 | 17 | - | 66 | 27 | 40 | 431 |
| Property Operators and Real Estate Services | 57 | 62 | 51 | 39 | 43 | 90 | 26 | 35 | 29 | 26 | 90 | 39 | 5 | 109 | 56 | - | 36 | 36 | - | 72 | 44 | 134 | 1,078 |
| Professional, Scientific and Technical Services, nfd | - | - | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | 4 | 4 | 15 |
| Professional, Scientific and Technical Services (except Computer System Design and Related Services) | 170 | 179 | 122 | 112 | 126 | 276 | 121 | 160 | 57 | 78 | 205 | 104 | 19 | 368 | 152 | - | 122 | 103 | - | 202 | 128 | 409 | 3,212 |
| Computer System Design and Related Services | 42 | 42 | 25 | 20 | 26 | 47 | 18 | 40 | 14 | 18 | 49 | 12 | 11 | 114 | 31 | - | 36 | 30 | - | 71 | 38 | 128 | 813 |
| Administrative and Support Services, nfd | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | - | 0 | 0 | - | 1 | 0 | 1 | 10 |

| 2 Digit Level | Rosewood | Brassall | Bundamba | Churchill - Yamanto | Ipswich - Central | Ipswich - East | Ipswich - North | Karalee - Barellan Point | Leichhardt - One Mile | North Ipswich - Tivoli | Raceview | Ripley | Riverview | Bellbird Park - Brookwater | Camira - Gailes | Carole Park | Collingwood Park - Redbank | Goodna | New Chum | Redbank Plains | Springfield | Springfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Administrative Services | 74 | 62 | 67 | 35 | 40 | 131 | 21 | 31 | 52 | 26 | 106 | 31 | 22 | 112 | 67 | - | 56 | 94 | - | 160 | 74 | 171 | 1,431 |
| Building Cleaning, Pest Control and Other Support Services | 106 | 84 | 95 | 45 | 66 | 179 | 35 | 40 | 88 | 53 | 114 | 49 | 29 | 110 | 99 | - | 74 | 103 | - | 156 | 63 | 102 | 1,689 |
| Public Administration and Safety, nfd | - | - | - | - | - | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | 7 | - | - | 13 |
| Public Administration | 188 | 190 | 167 | 163 | 183 | 387 | 103 | 161 | 103 | 143 | 320 | 100 | 30 | 286 | 143 | - | 147 | 140 | - | 228 | 132 | 299 | 3,614 |
| Defence | 355 | 186 | 24 | 241 | 53 | 99 | 54 | 54 | 55 | 25 | 386 | 200 | 7 | 285 | 21 | - | 30 | 20 | - | 57 | 54 | 328 | 2,533 |
| Public Order, Safety and Regulatory Services | 154 | 121 | 74 | 67 | 67 | 162 | 54 | 113 | 87 | 70 | 168 | 66 | 22 | 194 | 80 | - | 88 | 76 | - | 179 | 104 | 263 | 2,208 |
| Education and Training, nfd | 10 | 12 | 14 | 6 | 6 | 13 | 3 | - | 3 | 6 | 16 | 3 | - | 24 | 13 | - | 5 | 5 | - | 14 | 6 | 18 | 176 |
| Preschool and School Education | 380 | 342 | 218 | 217 | 252 | 516 | 210 | 244 | 157 | 182 | 485 | 213 | 35 | 431 | 248 | - | 224 | 183 | - | 330 | 212 | 452 | 5,531 |
| Tertiary Education | 67 | 53 | 58 | 41 | 57 | 128 | 49 | 62 | 35 | 34 | 72 | 26 | 12 | 132 | 67 | - | 50 | 52 | - | 69 | 47 | 155 | 1,266 |
| Adult, Community and Other Education | 37 | 19 | 14 | 20 | 23 | 56 | 20 | 14 | 10 | 13 | 40 | 26 | 4 | 43 | 31 | - | 23 | 19 | - | 31 | 17 | 51 | 512 |
| Health Care and Social Assistance, nfd | 12 | 7 | 4 | 5 | 4 | 15 | 11 | 7 | - | 5 | 16 | 4 | - | 12 | 9 | - | 5 | 5 | - | 13 | 5 | 13 | 152 |
| Hospitals | 188 | 231 | 128 | 141 | 145 | 351 | 132 | 147 | 125 | 131 | 325 | 114 | 22 | 353 | 145 | - | 129 | 103 | - | 232 | 146 | 405 | 3,693 |
| Medical and Other Health Care Services | 143 | 149 | 91 | 108 | 121 | 211 | 101 | 88 | 68 | 72 | 203 | 74 | 19 | 262 | 150 | - | 97 | 87 | - | 137 | 123 | 278 | 2,582 |

| 2 Digit Level | Rose wood | Brass all | Bund amba | Churc hill - Yama nto | Ipswi ch - Centr al | Ipswi ch - East | Ipswi ch - North | Karal ee - Barell an Point | Leich hardt - One Mile | North Ipswi ch - Tivoli | Racev iew | Riple y | River view | Bellbi rd Park - Brook water | Camir a - Gailes | Carol e Park | Collin gwoo d Park - Redb ank | Good na | New Chum | Redb ank Plains | Sprin gfield | Sprin gfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Residential Care Services | 144 | 129 | 114 | 67 | 63 | 200 | 38 | 57 | 78 | 74 | 184 | 49 | 32 | 148 | 76 | - | 89 | 122 | - | 218 | 53 | 140 | 2,075 |
| Social Assistance Services | 164 | 200 | 180 | 140 | 117 | 345 | 87 | 72 | 133 | 116 | 277 | 72 | 44 | 244 | 182 | - | 181 | 203 | - | 455 | 139 | 286 | 3,638 |
| Arts and Recreation Services, nfd | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | - | - | 5 | - | - | 18 |
| Heritage Activities | 7 | 4 | 4 | - | - | 20 | 5 | - | - | 12 | 5 | - | - | 7 | - | - | - | 7 | - | 7 | 4 | 12 | 95 |
| Creative and Performing Arts Activities | 7 | 8 | 4 | 3 | 9 | 7 | 5 | 3 | 4 | 3 | 9 | 4 | 4 | 14 | 12 | - | 5 | 3 | - | 8 | 7 | 12 | 133 |
| Sports and Recreation Activities | 32 | 40 | 29 | 14 | 16 | 48 | 22 | 17 | 22 | 17 | 39 | 16 | 3 | 45 | 16 | - | 22 | 18 | - | 47 | 20 | 52 | 533 |
| Gambling Activities | - | 7 | 14 | - | 3 | 9 | - | 4 | 3 | 3 | 7 | 4 | - | 14 | - | - | 3 | 13 | - | 15 | 7 | 14 | 124 |
| Other Services, nfd | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Repair and Maintenance | 151 | 69 | 76 | 62 | 43 | 128 | 51 | 69 | 55 | 55 | 145 | 55 | 12 | 105 | 105 | - | 58 | 81 | - | 189 | 73 | 117 | 1,699 |
| Personal and Other Services | 106 | 137 | 77 | 66 | 56 | 178 | 46 | 64 | 51 | 56 | 131 | 63 | 26 | 135 | 103 | - | 76 | 125 | - | 152 | 74 | 186 | 1,908 |
| Private Households Employing Staff and Undifferentiated Goods and Service-Producing Activities of Households for Own Use | - | - | - | 5 | - | - | - | - | - | - | - | - | - | 8 | - | - | - | - | - | - | 8 | - | 22 |
| **Total** | **5,489** | **4,739** | **3,748** | **3,355** | **2,753** | **7,337** | **2,496** | **3,023** | **2,682** | **2,604** | **6,982** | **2,644** | **822** | **7,249** | **4,439** | **-** | **3,765** | **3,808** | **-** | **7,923** | **3,599** | **8,392** | **87,848** |

Source: QGSO (2018), NIEIR (2019) and CDM Smith analysis

## P.1.5 Usual Resident Workforce Projections – SA2s in Ipswich City, 2025-26

| 2 Digit Level | Rosewood | Brassall | Bundamba | Churchill - Yamanto | Ipswich - Central | Ipswich - East | Ipswich - North | Karalee - Barellan Point | Leichhardt - One Mile | North Ipswich - Tivoli | Raceview | Ripley | Riverview | Bellbird Park - Brookwater | Camira - Gailes | Carole Park | Collingwood Park - Redbank | Goodna | New Chum | Redbank Plains | Springfield | Springfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Agriculture, Forestry and Fishing, nfd | 0 | 0 | 0 | 0 | 0 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 |
| Agriculture | 393 | 17 | 32 | 23 | 40 | 109 | 101 | 19 | 42 | 45 | 75 | 201 | 0 | 104 | 16 | 0 | 63 | 39 | 0 | 98 | 47 | 133 | 1,598 |
| Aquaculture | 0 | 15 | 0 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 18 | 0 | 0 | 9 | 0 | 0 | 69 |
| Forestry and Logging | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 26 |
| Fishing, Hunting and Trapping | 0 | 0 | 0 | 0 | 0 | 10 | 16 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 42 |
| Agriculture, Forestry and Fishing Support Services | 0 | 0 | 0 | 5 | 0 | 0 | 12 | 0 | 14 | 8 | 0 | 0 | 0 | 26 | 15 | 0 | 0 | 6 | 0 | 18 | 15 | 23 | 143 |
| Mining, nfd | 0 | 0 | 0 | 11 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 35 | 12 | 0 | 6 | 0 | 0 | 12 | 3 | 19 | 103 |
| Coal Mining | 0 | 0 | 0 | 26 | 7 | 4 | 9 | 18 | 13 | 2 | 0 | 0 | 9 | 99 | 32 | 0 | 8 | 19 | 0 | 33 | 21 | 12 | 313 |
| Oil and Gas Extraction | 35 | 12 | 0 | 0 | 0 | 10 | 10 | 6 | 3 | 5 | 31 | 160 | 0 | 67 | 0 | 0 | 12 | 10 | 0 | 2 | 0 | 95 | 458 |
| Metal Ore Mining | 16 | 0 | 14 | 0 | 0 | 7 | 0 | 43 | 0 | 13 | 0 | 0 | 0 | 33 | 0 | 0 | 0 | 0 | 0 | 34 | 24 | 98 | 283 |
| Non-Metallic Mineral Mining and Quarrying | 13 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 27 |
| Exploration and Other Mining Support Services | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Manufacturing, nfd | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| 2 Digit Level | Rose wood | Brass all | Bund amba | Churc hill - Yama nto | Ipswi ch - Centr al | Ipswi ch - East | Ipswi ch - North | Karal ee - Barell an Point | Leich hardt - One Mile | North Ipswi ch - Tivoli | Racev iew | Riple y | River view | Bellbi rd Park - Brook water | Camir a - Gailes | Carol e Park | Collin gwoo d Park - Redb ank | Good na | New Chum | Redb ank Plains | Sprin gfield | Sprin gfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Food Product Manufacturing | 296 | 185 | 93 | 127 | 48 | 154 | 155 | 35 | 207 | 146 | 264 | 373 | 0 | 296 | 137 | 0 | 246 | 399 | 0 | 713 | 75 | 260 | 4,208 |
| Beverage and Tobacco Product Manufacturing | 0 | 1 | 3 | 0 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 9 | 4 | 0 | 0 | 6 | 0 | 4 | 0 | 0 | 41 |
| Textile, Leather, Clothing and Footwear Manufacturing | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wood Product Manufacturing | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pulp, Paper and Converted Paper Product Manufacturing | 1 | 10 | 0 | 7 | 0 | 0 | 0 | 10 | 0 | 3 | 8 | 0 | 2 | 37 | 7 | 0 | 36 | 17 | 0 | 11 | 0 | 0 | 148 |
| Printing (including the Reproduction of Recorded Media) | 0 | 0 | 10 | 0 | 31 | 22 | 8 | 0 | 13 | 11 | 0 | 0 | 0 | 4 | 12 | 0 | 12 | 0 | 0 | 9 | 30 | 0 | 162 |
| Petroleum and Coal Product Manufacturing | 0 | 8 | 0 | 0 | 0 | 1 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 1 | 0 | 0 | 22 |
| Basic Chemical and Chemical Product Manufacturing | 35 | 0 | 5 | 11 | 0 | 8 | 24 | 2 | 6 | 0 | 46 | 0 | 0 | 101 | 9 | 0 | 4 | 0 | 0 | 86 | 29 | 127 | 493 |
| Polymer Product and Rubber Product Manufacturing | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Non-Metallic Mineral Product Manufacturing | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| Primary Metal and Metal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| 2 Digit Level | Rosewood | Brassall | Bundamba | Churchill - Yamanto | Ipswich - Central | Ipswich - East | Ipswich - North | Karalee - Barellan Point | Leichhardt - One Mile | North Ipswich - Tivoli | Raceview | Ripley | Riverview | Bellbird Park - Brookwater | Camira - Gailes | Carole Park | Collingwood Park - Redbank | Goodna | New Chum | Redbank Plains | Springfield | Springfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Product Manufacturing | | | | | | | | | | | | | | | | | | | | | | | |
| Fabricated Metal Product Manufacturing | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Transport Equipment Manufacturing | 120 | 0 | 30 | 8 | 7 | 59 | 0 | 17 | 52 | 0 | 0 | 0 | 3 | 0 | 34 | 0 | 9 | 28 | 0 | 69 | 0 | 18 | 454 |
| Machinery and Equipment Manufacturing | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Furniture and Other Manufacturing | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Electricity, Gas, Water and Waste Services, nfd | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25 | 0 | 0 | 45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 69 |
| Electricity Supply | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Gas Supply | 28 | 0 | 10 | 0 | 0 | 0 | 29 | 0 | 0 | 15 | 11 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 14 | 9 | 23 | 155 |
| Water Supply, Sewerage and Drainage Services | 19 | 8 | 36 | 20 | 50 | 53 | 12 | 30 | 27 | 23 | 33 | 251 | 0 | 49 | 1 | 0 | 13 | 0 | 0 | 13 | 12 | 68 | 718 |
| Waste Collection, Treatment and Disposal Services | 153 | 24 | 0 | 32 | 5 | 42 | 8 | 29 | 0 | 43 | 81 | 0 | 8 | 42 | 0 | 0 | 48 | 19 | 0 | 80 | 20 | 57 | 693 |
| Construction, nfd | 118 | 5 | 53 | 25 | 64 | 58 | 28 | 20 | 30 | 35 | 25 | 80 | 10 | 206 | 78 | 0 | 32 | 30 | 0 | 75 | 14 | 126 | 1,111 |
| Building Construction | 168 | 184 | 94 | 87 | 167 | 263 | 56 | 55 | 41 | 116 | 132 | 798 | 19 | 449 | 148 | 0 | 135 | 120 | 0 | 174 | 118 | 140 | 3,466 |

| 2 Digit Level | Rosewood | Brassall | Bundamba | Churchill - Yamanto | Ipswich - Central | Ipswich - East | Ipswich - North | Karalee - Barellan Point | Leichhardt - One Mile | North Ipswich - Tivoli | Raceview | Ripley | Riverview | Bellbird Park - Brookwater | Camira - Gailes | Carole Park | Collingwood Park - Redbank | Goodna | New Chum | Redbank Plains | Springfield | Springfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Heavy and Civil Engineering Construction | 50 | 35 | 15 | 1 | 30 | 22 | 38 | 36 | 15 | 0 | 36 | 0 | 12 | 0 | 66 | 0 | 0 | 0 | 0 | 0 | 0 | 81 | 437 |
| Construction Services | 916 | 399 | 332 | 223 | 177 | 711 | 305 | 277 | 206 | 296 | 650 | 1,416 | 40 | 697 | 539 | 0 | 364 | 251 | 0 | 711 | 178 | 770 | 9,456 |
| Wholesale Trade, nfd | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Basic Material Wholesaling | 11 | 0 | 7 | 0 | 0 | 32 | 10 | 0 | 25 | 13 | 24 | 64 | 22 | 51 | 54 | 0 | 72 | 21 | 0 | 22 | 0 | 86 | 515 |
| Machinery and Equipment Wholesaling | 43 | 34 | 2 | 11 | 32 | 26 | 0 | 0 | 6 | 54 | 10 | 265 | 0 | 1 | 17 | 0 | 56 | 6 | 0 | 32 | 17 | 85 | 696 |
| Motor Vehicle and Motor Vehicle Parts Wholesaling | 41 | 17 | 32 | 0 | 31 | 14 | 29 | 0 | 6 | 38 | 37 | 175 | 3 | 50 | 0 | 0 | 0 | 6 | 0 | 97 | 18 | 26 | 619 |
| Grocery, Liquor and Tobacco Product Wholesaling | 2 | 8 | 0 | 0 | 10 | 60 | 6 | 12 | 13 | 0 | 0 | 31 | 12 | 0 | 19 | 0 | 58 | 0 | 0 | 67 | 21 | 13 | 333 |
| Other Goods Wholesaling | 11 | 17 | 13 | 9 | 0 | 7 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 6 | 6 | 0 | 9 | 0 | 0 | 81 |
| Commission-Based Wholesaling | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 12 | 0 | 0 | 22 |
| Retail Trade, nfd | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Motor Vehicle and Motor Vehicle Parts Retailing | 204 | 116 | 78 | 81 | 0 | 122 | 95 | 35 | 48 | 15 | 65 | 140 | 0 | 185 | 31 | 0 | 77 | 21 | 0 | 182 | 37 | 102 | 1,634 |
| Fuel Retailing | 101 | 0 | 36 | 4 | 21 | 18 | 20 | 26 | 20 | 0 | 13 | 122 | 0 | 9 | 23 | 0 | 9 | 36 | 0 | 66 | 35 | 70 | 630 |
| Food Retailing | 582 | 276 | 408 | 199 | 101 | 299 | 117 | 224 | 128 | 132 | 409 | 1,018 | 21 | 557 | 198 | 0 | 245 | 144 | 0 | 362 | 148 | 259 | 5,826 |
| Other Store-Based Retailing | 485 | 216 | 341 | 195 | 181 | 436 | 208 | 147 | 76 | 139 | 466 | 902 | 52 | 669 | 281 | 0 | 319 | 284 | 0 | 651 | 156 | 1,042 | 7,245 |

| 2 Digit Level | Rosewood | Brassall | Bundamba | Churchill - Yamanto | Ipswich - Central | Ipswich - East | Ipswich - North | Karalee - Barellan Point | Leichhardt - One Mile | North Ipswich - Tivoli | Raceview | Ripley | Riverview | Bellbird Park - Brookwater | Camira - Gailes | Carole Park | Collingwood Park - Redbank | Goodna | New Chum | Redbank Plains | Springfield | Springfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Non-Store Retailing and Retail Commission-Based Buying and/or Selling | 20 | 0 | 15 | 9 | 0 | 14 | 13 | 0 | 0 | 0 | 3 | 0 | 0 | 28 | 9 | 0 | 0 | 0 | 0 | 13 | 8 | 4 | 137 |
| Accommodation and Food Services, nfd | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 4 | 0 | 3 | 1 | 0 | 1 | 1 | 0 | 2 | 1 | 3 | 26 |
| Accommodation | 0 | 28 | 5 | 13 | 37 | 48 | 0 | 36 | 0 | 35 | 53 | 0 | 17 | 13 | 10 | 0 | 2 | 28 | 0 | 21 | 12 | 76 | 436 |
| Food and Beverage Services | 555 | 513 | 357 | 207 | 210 | 525 | 169 | 310 | 256 | 178 | 618 | 671 | 86 | 990 | 267 | 0 | 439 | 176 | 0 | 587 | 464 | 1,429 | 9,008 |
| Transport, Postal and Warehousing, nfd | 103 | 23 | 54 | 16 | 16 | 39 | 33 | 26 | 36 | 11 | 53 | 233 | 0 | 83 | 31 | 0 | 20 | 36 | 0 | 77 | 34 | 98 | 1,021 |
| Road Transport | 386 | 198 | 254 | 98 | 130 | 336 | 43 | 29 | 79 | 13 | 213 | 0 | 63 | 323 | 95 | 0 | 136 | 201 | 0 | 565 | 173 | 336 | 3,671 |
| Rail Transport | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Water Transport | 0 | 0 | 15 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 12 | 9 | 0 | 60 |
| Air and Space Transport | 21 | 19 | 3 | 17 | 12 | 30 | 38 | 27 | 11 | 26 | 6 | 137 | 0 | 76 | 4 | 0 | 24 | 6 | 0 | 0 | 24 | 73 | 552 |
| Other Transport | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 0 | 15 | 47 |
| Postal and Courier Pick-up and Delivery Services | 65 | 82 | 37 | 15 | 29 | 119 | 0 | 28 | 21 | 46 | 129 | 158 | 21 | 167 | 97 | 0 | 57 | 65 | 0 | 138 | 42 | 238 | 1,552 |
| Transport Support Services | 34 | 53 | 19 | 8 | 11 | 66 | 0 | 18 | 26 | 35 | 54 | 62 | 7 | 59 | 10 | 0 | 72 | 14 | 0 | 125 | 33 | 88 | 795 |

| 2 Digit Level | Rose wood | Brass all | Bund amba | Churc hill - Yama nto | Ipswi ch - Centr al | Ipswi ch - East | Ipswi ch - North | Karal ee - Barell an Point | Leich hardt - One Mile | North Ipswi ch - Tivoli | Racev iew | Riple y | River view | Bellbi rd Park - Brook water | Camir a - Gailes | Carol e Park | Collin gwoo d Park - Redb ank | Good na | New Chum | Redb ank Plains | Sprin gfield | Sprin gfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Warehousing and Storage Services | 145 | 47 | 83 | 39 | 60 | 120 | 0 | 20 | 53 | 44 | 104 | 143 | 33 | 202 | 73 | 0 | 126 | 124 | 0 | 464 | 156 | 343 | 2,377 |
| Information Media and Telecommunications, nfd | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 27 |
| Publishing (except Internet and Music Publishing) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Motion Picture and Sound Recording Activities | 0 | 41 | 41 | 10 | 28 | 19 | 35 | 8 | 0 | 16 | 49 | 90 | 0 | 121 | 32 | 0 | 14 | 6 | 0 | 16 | 23 | 77 | 627 |
| Broadcasting (except Internet) | 34 | 12 | 0 | 11 | 0 | 9 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 26 | 2 | 0 | 0 | 0 | 0 | 43 | 0 | 23 | 174 |
| Internet Publishing and Broadcasting | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 9 |
| Telecommunications Services | 6 | 35 | 0 | 26 | 1 | 41 | 16 | 28 | 0 | 39 | 16 | 41 | 6 | 68 | 7 | 0 | 19 | 26 | 0 | 56 | 44 | 261 | 737 |
| Internet Service Providers, Web Search Portals and Data Processing Services | 0 | 7 | 0 | 16 | 5 | 0 | 0 | 13 | 0 | 19 | 21 | 0 | 16 | 59 | 28 | 0 | 9 | 0 | 0 | 40 | 11 | 117 | 360 |
| Library and Other Information Services | 35 | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 0 | 1 | 20 | 0 | 106 |
| Financial and Insurance Services, nfd | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 14 |

| 2 Digit Level | Rosewood | Brassall | Bundamba | Churchill - Yamanto | Ipswich - Central | Ipswich - East | Ipswich - North | Karalee - Barellan Point | Leichhardt - One Mile | North Ipswich - Tivoli | Raceview | Ripley | Riverview | Bellbird Park - Brookwater | Camira - Gailes | Carole Park | Collingwood Park - Redbank | Goodna | New Chum | Redbank Plains | Springfield | Springfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Finance | 142 | 101 | 0 | 87 | 35 | 92 | 16 | 0 | 70 | 14 | 65 | 292 | 15 | 36 | 65 | 0 | 18 | 22 | 0 | 95 | 54 | 365 | 1,585 |
| Insurance and Superannuation Funds | 14 | 46 | 56 | 12 | 13 | 14 | 21 | 24 | 0 | 8 | 6 | 330 | 12 | 99 | 33 | 0 | 43 | 30 | 0 | 44 | 28 | 191 | 1,023 |
| Auxiliary Finance and Insurance Services | 103 | 38 | 23 | 39 | 17 | 20 | 20 | 42 | 21 | 49 | 80 | 354 | 11 | 174 | 30 | 0 | 25 | 34 | 0 | 162 | 38 | 146 | 1,427 |
| Rental, Hiring and Real Estate Services, nfd | 4 | 2 | 2 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 3 | 8 | 0 | 5 | 2 | 0 | 2 | 2 | 0 | 4 | 2 | 6 | 52 |
| Rental and Hiring Services (except Real Estate) | 19 | 25 | 0 | 27 | 0 | 82 | 21 | 0 | 15 | 50 | 27 | 0 | 11 | 0 | 13 | 0 | 38 | 8 | 0 | 124 | 43 | 100 | 603 |
| Property Operators and Real Estate Services | 150 | 108 | 153 | 53 | 59 | 169 | 22 | 48 | 38 | 65 | 168 | 359 | 9 | 327 | 114 | 0 | 88 | 68 | 0 | 176 | 59 | 325 | 2,559 |
| Professional, Scientific and Technical Services, nfd | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 11 | 16 | 54 |
| Professional, Scientific and Technical Services (except Computer System Design and Related Services) | 438 | 230 | 164 | 96 | 166 | 277 | 191 | 133 | 20 | 73 | 198 | 957 | 23 | 784 | 100 | 0 | 122 | 35 | 0 | 152 | 103 | 544 | 4,806 |
| Computer System Design and Related Services | 150 | 63 | 22 | 37 | 29 | 53 | 19 | 56 | 0 | 32 | 86 | 0 | 22 | 256 | 41 | 0 | 57 | 0 | 0 | 169 | 53 | 282 | 1,428 |
| Administrative and Support Services, nfd | 3 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 5 | 0 | 3 | 1 | 0 | 1 | 1 | 0 | 2 | 1 | 3 | 32 |

| 2 Digit Level | Rosewood | Brassall | Bundamba | Churchill - Yamanto | Ipswich - Central | Ipswich - East | Ipswich - North | Karalee - Barellan Point | Leichhardt - One Mile | North Ipswich - Tivoli | Raceview | Ripley | Riverview | Bellbird Park - Brookwater | Camira - Gailes | Carole Park | Collingwood Park - Redbank | Goodna | New Chum | Redbank Plains | Springfield | Springfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Administrative Services | 202 | 59 | 113 | 48 | 45 | 161 | 0 | 17 | 90 | 0 | 135 | 270 | 30 | 202 | 101 | 0 | 76 | 162 | 0 | 255 | 103 | 319 | 2,388 |
| Building Cleaning, Pest Control and Other Support Services | 396 | 199 | 182 | 52 | 172 | 316 | 59 | 76 | 166 | 21 | 199 | 535 | 51 | 212 | 133 | 0 | 106 | 184 | 0 | 335 | 126 | 208 | 3,727 |
| Public Administration and Safety, nfd | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 | 0 | 0 | 32 |
| Public Administration | 89 | 134 | 194 | 97 | 203 | 330 | 29 | 193 | 82 | 154 | 289 | 679 | 21 | 510 | 85 | 0 | 100 | 63 | 0 | 215 | 100 | 492 | 4,060 |
| Defence | 477 | 69 | 0 | 246 | 36 | 30 | 69 | 41 | 0 | 0 | 126 | 2,110 | 4 | 596 | 13 | 0 | 12 | 24 | 0 | 14 | 40 | 335 | 4,241 |
| Public Order, Safety and Regulatory Services | 480 | 194 | 64 | 74 | 85 | 212 | 46 | 171 | 89 | 104 | 229 | 648 | 24 | 398 | 40 | 0 | 48 | 85 | 0 | 272 | 109 | 566 | 3,938 |
| Education and Training, nfd | 41 | 26 | 33 | 18 | 13 | 14 | 3 | 0 | 12 | 12 | 40 | 0 | 0 | 81 | 27 | 0 | 8 | 6 | 0 | 28 | 20 | 54 | 438 |
| Preschool and School Education | 1,174 | 506 | 367 | 265 | 460 | 808 | 419 | 344 | 302 | 336 | 720 | 2,290 | 37 | 1,041 | 368 | 0 | 422 | 292 | 0 | 643 | 366 | 1,251 | 12,411 |
| Tertiary Education | 168 | 31 | 51 | 27 | 77 | 142 | 60 | 46 | 55 | 36 | 58 | 328 | 15 | 346 | 72 | 0 | 83 | 80 | 0 | 87 | 70 | 325 | 2,158 |
| Adult, Community and Other Education | 52 | 4 | 11 | 23 | 19 | 41 | 50 | 4 | 11 | 10 | 28 | 280 | 6 | 132 | 30 | 0 | 33 | 30 | 0 | 26 | 14 | 66 | 870 |
| Health Care and Social Assistance, nfd | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hospitals | 541 | 338 | 157 | 173 | 151 | 472 | 214 | 198 | 175 | 157 | 515 | 636 | 24 | 1,164 | 169 | 0 | 195 | 35 | 0 | 336 | 155 | 785 | 6,588 |
| Medical and Other Health Care Services | 486 | 263 | 164 | 158 | 279 | 274 | 181 | 114 | 102 | 116 | 260 | 713 | 23 | 879 | 270 | 0 | 186 | 194 | 0 | 266 | 239 | 660 | 5,825 |

| 2 Digit Level | Rosewood | Brassall | Bundamba | Churchill - Yamanto | Ipswich - Central | Ipswich - East | Ipswich - North | Karalee - Barellan Point | Leichhardt - One Mile | North Ipswich - Tivoli | Raceview | Ripley | Riverview | Bellbird Park - Brookwater | Camira - Gailes | Carole Park | Collingwood Park - Redbank | Goodna | New Chum | Redbank Plains | Springfield | Springfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Residential Care Services | 335 | 203 | 220 | 60 | 58 | 297 | 36 | 76 | 99 | 95 | 249 | 608 | 52 | 405 | 79 | 0 | 157 | 220 | 0 | 432 | 36 | 428 | 4,143 |
| Social Assistance Services | 483 | 323 | 348 | 153 | 145 | 510 | 216 | 64 | 134 | 150 | 339 | 653 | 62 | 655 | 252 | 0 | 300 | 396 | 0 | 1,057 | 199 | 737 | 7,174 |
| Arts and Recreation Services, nfd | 11 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 26 |
| Heritage Activities | 21 | 0 | 2 | 0 | 0 | 36 | 0 | 0 | 0 | 14 | 7 | 0 | 0 | 29 | 0 | 0 | 0 | 10 | 0 | 12 | 10 | 30 | 171 |
| Creative and Performing Arts Activities | 30 | 20 | 14 | 8 | 18 | 7 | 3 | 0 | 12 | 3 | 19 | 86 | 11 | 23 | 13 | 0 | 6 | 0 | 0 | 15 | 0 | 26 | 315 |
| Sports and Recreation Activities | 49 | 66 | 24 | 9 | 29 | 37 | 52 | 26 | 44 | 35 | 55 | 239 | 9 | 83 | 0 | 0 | 52 | 31 | 0 | 86 | 26 | 103 | 1,056 |
| Gambling Activities | 0 | 20 | 8 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 9 | 69 | 0 | 44 | 0 | 0 | 0 | 16 | 0 | 33 | 9 | 31 | 241 |
| Other Services, nfd | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Repair and Maintenance | 408 | 100 | 123 | 93 | 88 | 219 | 85 | 66 | 76 | 85 | 176 | 419 | 8 | 74 | 124 | 0 | 50 | 109 | 0 | 285 | 121 | 181 | 2,889 |
| Personal and Other Services | 272 | 305 | 131 | 51 | 98 | 285 | 92 | 68 | 62 | 112 | 121 | 408 | 51 | 328 | 149 | 0 | 128 | 226 | 0 | 275 | 85 | 382 | 3,628 |
| Private Households Employing Staff and Undifferentiated Goods and Service-Producing Activities of Households for Own Use | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 51 |
| **Total** | **12,005** | **6,132** | **5,170** | **3,510** | **3,843** | **8,900** | **3,582** | **3,405** | **3,167** | **3,389** | **7,984** | **20,822** | **996** | **14,999** | **4,734** | **0** | **5,147** | **4,513** | **0** | **11,494** | **4,312** | **15,887** | **143,992** |

Source: QGSO (2018), NIEIR (2019) and CDM Smith analysis

## P.1.6 Usual Resident Workforce Projections – SA2s in Ipswich City, 2031

| 2 Digit Level | Rosewood | Brassall | Bundamba | Churchill - Yamanto | Ipswich - Central | Ipswich - East | Ipswich - North | Karalee - Barellan Point | Leichhardt - One Mile | North Ipswich - Tivoli | Raceview | Ripley | Riverview | Bellbird Park - Brookwater | Camira - Gailes | Carole Park | Collingwood Park - Redbank | Goodna | New Chum | Redbank Plains | Springfield | Springfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Agriculture, Forestry and Fishing, nfd | 0 | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 |
| Agriculture | 589 | 13 | 32 | 23 | 56 | 134 | 120 | 17 | 46 | 54 | 88 | 355 | 0 | 163 | 16 | 0 | 80 | 46 | 0 | 129 | 56 | 224 | 2,241 |
| Aquaculture | 0 | 20 | 0 | 0 | 0 | 23 | 0 | 0 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 27 | 0 | 0 | 15 | 0 | 0 | 99 |
| Forestry and Logging | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 38 |
| Fishing, Hunting and Trapping | 0 | 0 | 0 | 0 | 0 | 15 | 24 | 0 | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 63 |
| Agriculture, Forestry and Fishing Support Services | 0 | 0 | 0 | 5 | 0 | 0 | 15 | 0 | 17 | 9 | 0 | 0 | 0 | 41 | 18 | 0 | 0 | 6 | 0 | 24 | 18 | 39 | 191 |
| Mining, nfd | 0 | 0 | 0 | 10 | 0 | 3 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 47 | 11 | 0 | 6 | 0 | 0 | 13 | 2 | 23 | 118 |
| Coal Mining | 0 | 0 | 0 | 19 | 5 | 0 | 5 | 14 | 11 | 0 | 0 | 0 | 8 | 117 | 29 | 0 | 7 | 18 | 0 | 32 | 18 | 0 | 283 |
| Oil and Gas Extraction | 56 | 12 | 0 | 0 | 0 | 11 | 11 | 6 | 3 | 5 | 34 | 267 | 0 | 93 | 0 | 0 | 14 | 11 | 0 | 1 | 0 | 144 | 666 |
| Metal Ore Mining | 27 | 0 | 16 | 0 | 0 | 7 | 0 | 49 | 0 | 16 | 0 | 0 | 0 | 46 | 0 | 0 | 0 | 0 | 0 | 47 | 30 | 165 | 403 |
| Non-Metallic Mineral Mining and Quarrying | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Exploration and Other Mining Support Services | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Manufacturing, nfd | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| 2 Digit Level | Rose wood | Brass all | Bund amba | Churc hill - Yama nto | Ipswi ch - Centr al | Ipswi ch - East | Ipswi ch - North | Karal ee - Barell an Point | Leich hardt - One Mile | North Ipswi ch - Tivoli | Racev iew | Riple y | River view | Bellbi rd Park - Brook water | Camir a - Gailes | Carol e Park | Collin gwoo d Park - Redb ank | Good na | New Chum | Redb ank Plains | Sprin gfield | Sprin gfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Food Product Manufacturing | 409 | 176 | 47 | 123 | 46 | 118 | 191 | 26 | 238 | 167 | 277 | 539 | 0 | 387 | 135 | 0 | 263 | 466 | 0 | 893 | 64 | 348 | 4,914 |
| Beverage and Tobacco Product Manufacturing | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Textile, Leather, Clothing and Footwear Manufacturing | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wood Product Manufacturing | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pulp, Paper and Converted Paper Product Manufacturing | 0 | 8 | 0 | 6 | 0 | 0 | 0 | 8 | 0 | 2 | 7 | 0 | 1 | 38 | 3 | 0 | 33 | 12 | 0 | 6 | 0 | 0 | 124 |
| Printing (including the Reproduction of Recorded Media) | 0 | 0 | 8 | 0 | 35 | 18 | 7 | 0 | 12 | 10 | 0 | 0 | 0 | 0 | 9 | 0 | 11 | 0 | 0 | 5 | 27 | 0 | 140 |
| Petroleum and Coal Product Manufacturing | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 1 | 0 | 0 | 11 |
| Basic Chemical and Chemical Product Manufacturing | 51 | 0 | 2 | 9 | 0 | 0 | 24 | 0 | 4 | 0 | 45 | 0 | 0 | 121 | 3 | 0 | 0 | 0 | 0 | 90 | 20 | 165 | 533 |
| Polymer Product and Rubber Product Manufacturing | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Non-Metallic Mineral Product Manufacturing | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Primary Metal and Metal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| 2 Digit Level | Rosewood | Brassall | Bundamba | Churchill - Yamanto | Ipswich - Central | Ipswich - East | Ipswich - North | Karalee - Barellan Point | Leichhardt - One Mile | North Ipswich - Tivoli | Raceview | Ripley | Riverview | Bellbird Park - Brookwater | Camira - Gailes | Carole Park | Collingwood Park - Redbank | Goodna | New Chum | Redbank Plains | Springfield | Springfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Product Manufacturing | | | | | | | | | | | | | | | | | | | | | | | |
| Fabricated Metal Product Manufacturing | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Transport Equipment Manufacturing | 44 | 0 | 7 | 0 | 0 | 14 | 0 | 3 | 15 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 5 | 0 | 13 | 0 | 0 | 107 |
| Machinery and Equipment Manufacturing | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Furniture and Other Manufacturing | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Electricity, Gas, Water and Waste Services, nfd | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 31 | 0 | 0 | 73 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 104 |
| Electricity Supply | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Gas Supply | 52 | 0 | 12 | 0 | 0 | 0 | 38 | 0 | 0 | 20 | 14 | 0 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 20 | 11 | 41 | 233 |
| Water Supply, Sewerage and Drainage Services | 7 | 3 | 40 | 19 | 69 | 60 | 9 | 29 | 28 | 25 | 32 | 410 | 0 | 66 | 0 | 0 | 13 | 0 | 0 | 12 | 12 | 105 | 937 |
| Waste Collection, Treatment and Disposal Services | 266 | 24 | 0 | 35 | 7 | 46 | 9 | 30 | 0 | 50 | 97 | 0 | 8 | 46 | 0 | 0 | 58 | 21 | 0 | 94 | 21 | 81 | 893 |
| Construction, nfd | 213 | 2 | 61 | 29 | 94 | 70 | 34 | 22 | 37 | 43 | 28 | 128 | 12 | 340 | 92 | 0 | 40 | 36 | 0 | 96 | 16 | 214 | 1,606 |
| Building Construction | 241 | 210 | 90 | 95 | 241 | 312 | 54 | 48 | 44 | 136 | 131 | 1,343 | 19 | 645 | 157 | 0 | 156 | 136 | 0 | 188 | 133 | 118 | 4,497 |

| 2 Digit Level | Rosewood | Brassall | Bundamba | Churchill - Yamanto | Ipswich - Central | Ipswich - East | Ipswich - North | Karalee - Barellan Point | Leichhardt - One Mile | North Ipswich - Tivoli | Raceview | Ripley | Riverview | Bellbird Park - Brookwater | Camira - Gailes | Carole Park | Collingwood Park - Redbank | Goodna | New Chum | Redbank Plains | Springfield | Springfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Heavy and Civil Engineering Construction | 23 | 13 | 2 | 0 | 18 | 4 | 18 | 15 | 5 | 0 | 15 | 0 | 6 | 0 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 41 | 191 |
| Construction Services | 1,576 | 440 | 364 | 224 | 229 | 876 | 348 | 290 | 234 | 352 | 771 | 2,302 | 41 | 966 | 609 | 0 | 456 | 280 | 0 | 901 | 183 | 1,196 | 12,638 |
| Wholesale Trade, nfd | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Basic Material Wholesaling | 0 | 0 | 0 | 0 | 0 | 23 | 5 | 0 | 23 | 9 | 14 | 84 | 19 | 40 | 47 | 0 | 71 | 15 | 0 | 0 | 0 | 101 | 451 |
| Machinery and Equipment Wholesaling | 42 | 25 | 0 | 7 | 32 | 15 | 0 | 0 | 2 | 49 | 0 | 343 | 0 | 0 | 3 | 0 | 46 | 0 | 0 | 9 | 7 | 59 | 640 |
| Motor Vehicle and Motor Vehicle Parts Wholesaling | 59 | 14 | 30 | 0 | 42 | 10 | 30 | 0 | 4 | 42 | 37 | 269 | 3 | 53 | 0 | 0 | 0 | 0 | 0 | 111 | 15 | 15 | 735 |
| Grocery, Liquor and Tobacco Product Wholesaling | 0 | 0 | 0 | 0 | 1 | 11 | 0 | 1 | 2 | 0 | 0 | 0 | 2 | 0 | 3 | 0 | 12 | 0 | 0 | 11 | 3 | 0 | 46 |
| Other Goods Wholesaling | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commission-Based Wholesaling | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 14 | 0 | 0 | 25 |
| Retail Trade, nfd | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Motor Vehicle and Motor Vehicle Parts Retailing | 365 | 133 | 82 | 87 | 0 | 147 | 121 | 35 | 56 | 12 | 63 | 194 | 0 | 278 | 32 | 0 | 97 | 21 | 0 | 240 | 40 | 123 | 2,125 |
| Fuel Retailing | 172 | 0 | 37 | 2 | 27 | 16 | 22 | 27 | 19 | 0 | 10 | 203 | 0 | 0 | 24 | 0 | 8 | 39 | 0 | 74 | 40 | 103 | 822 |
| Food Retailing | 946 | 272 | 460 | 203 | 123 | 321 | 128 | 248 | 136 | 144 | 455 | 1,713 | 20 | 772 | 204 | 0 | 285 | 145 | 0 | 361 | 150 | 276 | 7,363 |
| Other Store-Based Retailing | 748 | 179 | 357 | 191 | 218 | 452 | 236 | 140 | 51 | 138 | 483 | 1,274 | 51 | 868 | 293 | 0 | 370 | 318 | 0 | 789 | 146 | 1,599 | 8,901 |

| 2 Digit Level | Rosewood | Brassall | Bundamba | Churchill - Yamanto | Ipswich - Central | Ipswich - East | Ipswich - North | Karalee - Barellan Point | Leichhardt - One Mile | North Ipswich - Tivoli | Raceview | Ripley | Riverview | Bellbird Park - Brookwater | Camira - Gailes | Carole Park | Collingwood Park - Redbank | Goodna | New Chum | Redbank Plains | Springfield | Springfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Non-Store Retailing and Retail Commission-Based Buying and/or Selling | 37 | 0 | 18 | 11 | 0 | 17 | 17 | 0 | 0 | 0 | 3 | 0 | 0 | 45 | 11 | 0 | 0 | 0 | 0 | 17 | 10 | 2 | 186 |
| Accommodation and Food Services, nfd | 4 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 7 | 0 | 5 | 1 | 0 | 1 | 1 | 0 | 3 | 1 | 5 | 40 |
| Accommodation | 0 | 25 | 0 | 13 | 49 | 51 | 0 | 39 | 0 | 39 | 59 | 0 | 17 | 0 | 5 | 0 | 0 | 25 | 0 | 12 | 10 | 107 | 450 |
| Food and Beverage Services | 907 | 578 | 389 | 220 | 266 | 579 | 193 | 364 | 296 | 197 | 722 | 822 | 94 | 1,515 | 280 | 0 | 564 | 167 | 0 | 727 | 571 | 2,414 | 11,866 |
| Transport, Postal and Warehousing, nfd | 185 | 27 | 64 | 17 | 23 | 48 | 40 | 30 | 45 | 14 | 66 | 435 | 0 | 136 | 34 | 0 | 26 | 44 | 0 | 104 | 42 | 167 | 1,547 |
| Road Transport | 501 | 210 | 269 | 98 | 181 | 391 | 30 | 7 | 63 | 0 | 214 | 0 | 66 | 405 | 62 | 0 | 126 | 207 | 0 | 691 | 176 | 438 | 4,136 |
| Rail Transport | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Water Transport | 0 | 0 | 16 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 | 0 | 0 | 0 | 0 | 0 | 16 | 9 | 0 | 76 |
| Air and Space Transport | 29 | 20 | 3 | 18 | 18 | 36 | 48 | 29 | 13 | 31 | 4 | 242 | 0 | 113 | 3 | 0 | 31 | 7 | 0 | 0 | 28 | 105 | 776 |
| Other Transport | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 31 | 0 | 25 | 64 |
| Postal and Courier Pick-up and Delivery Services | 102 | 99 | 32 | 10 | 39 | 150 | 0 | 31 | 24 | 55 | 157 | 283 | 22 | 254 | 114 | 0 | 72 | 74 | 0 | 177 | 47 | 406 | 2,147 |
| Transport Support Services | 47 | 68 | 19 | 7 | 15 | 88 | 0 | 19 | 34 | 48 | 68 | 71 | 8 | 77 | 8 | 0 | 100 | 9 | 0 | 167 | 43 | 129 | 1,024 |

| 2 Digit Level | Rosewood | Brassall | Bundamba | Churchill - Yamanto | Ipswich - Central | Ipswich - East | Ipswich - North | Karalee - Barellan Point | Leichhardt - One Mile | North Ipswich - Tivoli | Raceview | Ripley | Riverview | Bellbird Park - Brookwater | Camira - Gailes | Carole Park | Collingwood Park - Redbank | Goodna | New Chum | Redbank Plains | Springfield | Springfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Warehousing and Storage Services | 280 | 54 | 98 | 45 | 93 | 157 | 0 | 23 | 64 | 57 | 131 | 280 | 38 | 326 | 80 | 0 | 168 | 153 | 0 | 663 | 194 | 592 | 3,495 |
| Information Media and Telecommunications, nfd | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 37 |
| Publishing (except Internet and Music Publishing) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Motion Picture and Sound Recording Activities | 0 | 51 | 49 | 12 | 43 | 22 | 45 | 9 | 0 | 21 | 62 | 163 | 0 | 201 | 40 | 0 | 18 | 7 | 0 | 20 | 30 | 134 | 929 |
| Broadcasting (except Internet) | 59 | 13 | 0 | 11 | 0 | 11 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 40 | 2 | 0 | 0 | 0 | 0 | 55 | 0 | 34 | 239 |
| Internet Publishing and Broadcasting | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 13 |
| Telecommunications Services | 1 | 40 | 0 | 28 | 0 | 46 | 17 | 27 | 0 | 47 | 14 | 38 | 6 | 81 | 0 | 0 | 19 | 26 | 0 | 60 | 51 | 438 | 939 |
| Internet Service Providers, Web Search Portals and Data Processing Services | 0 | 7 | 0 | 19 | 6 | 0 | 0 | 14 | 0 | 24 | 26 | 0 | 18 | 94 | 35 | 0 | 10 | 0 | 0 | 56 | 13 | 205 | 527 |
| Library and Other Information Services | 60 | 0 | 0 | 0 | 0 | 0 | 18 | 0 | 0 | 26 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 0 | 0 | 0 | 24 | 0 | 145 |
| Financial and Insurance Services, nfd | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| 2 Digit Level | Rosewood | Brassall | Bundamba | Churchill - Yamanto | Ipswich - Central | Ipswich - East | Ipswich - North | Karalee - Barellan Point | Leichhardt - One Mile | North Ipswich - Tivoli | Raceview | Ripley | Riverview | Bellbird Park - Brookwater | Camira - Gailes | Carole Park | Collingwood Park - Redbank | Goodna | New Chum | Redbank Plains | Springfield | Springfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Finance | 222 | 105 | 0 | 88 | 39 | 94 | 5 | 0 | 82 | 11 | 50 | 397 | 15 | 0 | 67 | 0 | 8 | 18 | 0 | 103 | 53 | 548 | 1,907 |
| Insurance and Superannuation Funds | 17 | 48 | 57 | 10 | 13 | 4 | 23 | 23 | 0 | 8 | 0 | 559 | 12 | 109 | 30 | 0 | 40 | 27 | 0 | 37 | 25 | 243 | 1,283 |
| Auxiliary Finance and Insurance Services | 175 | 41 | 22 | 43 | 22 | 17 | 20 | 44 | 23 | 61 | 93 | 621 | 11 | 259 | 30 | 0 | 28 | 34 | 0 | 214 | 42 | 203 | 2,005 |
| Rental, Hiring and Real Estate Services, nfd | 9 | 3 | 2 | 2 | 2 | 4 | 2 | 1 | 1 | 2 | 4 | 15 | 0 | 9 | 2 | 0 | 3 | 2 | 0 | 6 | 2 | 10 | 80 |
| Rental and Hiring Services (except Real Estate) | 15 | 25 | 0 | 29 | 0 | 94 | 19 | 0 | 14 | 60 | 27 | 0 | 12 | 0 | 10 | 0 | 44 | 4 | 0 | 152 | 48 | 153 | 708 |
| Property Operators and Real Estate Services | 249 | 122 | 185 | 56 | 74 | 208 | 17 | 50 | 41 | 83 | 204 | 593 | 10 | 505 | 135 | 0 | 116 | 80 | 0 | 243 | 65 | 519 | 3,557 |
| Professional, Scientific and Technical Services, nfd | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 14 | 29 | 80 |
| Professional, Scientific and Technical Services (except Computer System Design and Related Services) | 684 | 223 | 157 | 82 | 198 | 268 | 202 | 109 | 5 | 66 | 186 | 1,493 | 22 | 1,043 | 77 | 0 | 116 | 8 | 0 | 123 | 88 | 660 | 5,808 |
| Computer System Design and Related Services | 256 | 64 | 16 | 40 | 32 | 52 | 16 | 56 | 0 | 36 | 97 | 0 | 24 | 343 | 42 | 0 | 64 | 0 | 0 | 221 | 56 | 415 | 1,831 |
| Administrative and Support Services, nfd | 5 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 9 | 0 | 5 | 1 | 0 | 1 | 1 | 0 | 3 | 1 | 6 | 46 |

| 2 Digit Level | Rosewood | Brassall | Bundamba | Churchill - Yamanto | Ipswich - Central | Ipswich - East | Ipswich - North | Karalee - Barellan Point | Leichhardt - One Mile | North Ipswich - Tivoli | Raceview | Ripley | Riverview | Bellbird Park - Brookwater | Camira - Gailes | Carole Park | Collingwood Park - Redbank | Goodna | New Chum | Redbank Plains | Springfield | Springfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Administrative Services | 332 | 51 | 119 | 50 | 52 | 172 | 0 | 9 | 105 | 0 | 144 | 427 | 31 | 257 | 110 | 0 | 84 | 186 | 0 | 309 | 112 | 458 | 3,007 |
| Building Cleaning, Pest Control and Other Support Services | 712 | 237 | 202 | 53 | 256 | 384 | 66 | 85 | 198 | 4 | 236 | 922 | 55 | 283 | 144 | 0 | 121 | 217 | 0 | 449 | 152 | 315 | 5,093 |
| Public Administration and Safety, nfd | 0 | 0 | 0 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 32 | 0 | 0 | 45 |
| Public Administration | 0 | 93 | 176 | 67 | 228 | 294 | 0 | 185 | 70 | 149 | 265 | 957 | 16 | 638 | 60 | 0 | 71 | 29 | 0 | 204 | 82 | 660 | 4,244 |
| Defence | 588 | 33 | 0 | 214 | 33 | 13 | 65 | 33 | 0 | 0 | 64 | 3,113 | 3 | 741 | 10 | 0 | 7 | 22 | 0 | 2 | 33 | 372 | 5,348 |
| Public Order, Safety and Regulatory Services | 791 | 202 | 50 | 70 | 101 | 227 | 36 | 175 | 85 | 112 | 244 | 1,037 | 22 | 526 | 25 | 0 | 26 | 84 | 0 | 318 | 105 | 833 | 5,071 |
| Education and Training, nfd | 74 | 31 | 38 | 22 | 19 | 15 | 2 | 0 | 16 | 15 | 51 | 0 | 0 | 128 | 32 | 0 | 10 | 7 | 0 | 38 | 27 | 90 | 615 |
| Preschool and School Education | 1,991 | 531 | 388 | 267 | 626 | 935 | 489 | 355 | 356 | 394 | 808 | 3,862 | 34 | 1,490 | 401 | 0 | 513 | 328 | 0 | 826 | 421 | 2,017 | 17,031 |
| Tertiary Education | 258 | 17 | 40 | 20 | 93 | 141 | 58 | 35 | 60 | 35 | 50 | 548 | 14 | 485 | 69 | 0 | 94 | 85 | 0 | 94 | 74 | 468 | 2,738 |
| Adult, Community and Other Education | 66 | 0 | 9 | 22 | 19 | 34 | 57 | 0 | 11 | 8 | 23 | 446 | 5 | 188 | 28 | 0 | 36 | 31 | 0 | 24 | 12 | 82 | 1,102 |
| Health Care and Social Assistance, nfd | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hospitals | 915 | 357 | 150 | 177 | 169 | 530 | 239 | 204 | 194 | 165 | 595 | 826 | 23 | 1,820 | 174 | 0 | 227 | 4 | 0 | 400 | 156 | 1,161 | 8,485 |
| Medical and Other Health Care Services | 844 | 290 | 176 | 167 | 401 | 300 | 206 | 115 | 114 | 132 | 281 | 1,170 | 22 | 1,364 | 308 | 0 | 228 | 233 | 0 | 342 | 283 | 1,029 | 8,004 |

| 2 Digit Level | Rosewood | Brassall | Bundamba | Churchill - Yamanto | Ipswich - Central | Ipswich - East | Ipswich - North | Karalee - Barellan Point | Leichhardt - One Mile | North Ipswich - Tivoli | Raceview | Ripley | Riverview | Bellbird Park - Brookwater | Camira - Gailes | Carole Park | Collingwood Park - Redbank | Goodna | New Chum | Redbank Plains | Springfield | Springfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Residential Care Services | 523 | 216 | 239 | 53 | 60 | 337 | 31 | 77 | 104 | 102 | 272 | 1,054 | 55 | 596 | 77 | 0 | 186 | 252 | 0 | 555 | 27 | 700 | 5,516 |
| Social Assistance Services | 822 | 353 | 386 | 150 | 176 | 591 | 269 | 55 | 131 | 162 | 365 | 1,063 | 64 | 979 | 275 | 0 | 358 | 474 | 0 | 1,437 | 222 | 1,189 | 9,521 |
| Arts and Recreation Services, nfd | 16 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 32 |
| Heritage Activities | 34 | 0 | 2 | 0 | 0 | 40 | 0 | 0 | 0 | 14 | 8 | 0 | 0 | 42 | 0 | 0 | 0 | 11 | 0 | 14 | 11 | 45 | 220 |
| Creative and Performing Arts Activities | 51 | 22 | 16 | 9 | 24 | 7 | 1 | 0 | 15 | 3 | 22 | 154 | 12 | 28 | 13 | 0 | 6 | 0 | 0 | 18 | 0 | 37 | 437 |
| Sports and Recreation Activities | 64 | 71 | 18 | 7 | 39 | 33 | 61 | 28 | 51 | 41 | 61 | 426 | 10 | 107 | 0 | 0 | 66 | 35 | 0 | 107 | 28 | 151 | 1,404 |
| Gambling Activities | 0 | 21 | 5 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 9 | 114 | 0 | 61 | 0 | 0 | 0 | 15 | 0 | 39 | 9 | 44 | 319 |
| Other Services, nfd | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Repair and Maintenance | 686 | 106 | 132 | 101 | 127 | 266 | 96 | 60 | 86 | 98 | 190 | 649 | 6 | 28 | 130 | 0 | 44 | 120 | 0 | 349 | 142 | 247 | 3,662 |
| Personal and Other Services | 455 | 368 | 144 | 43 | 137 | 344 | 112 | 67 | 68 | 140 | 117 | 589 | 58 | 486 | 167 | 0 | 158 | 272 | 0 | 360 | 89 | 590 | 4,765 |
| Private Households Employing Staff and Undifferentiated Goods and Service-Producing Activities of Households for Own Use | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 43 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 0 | 70 |
| **Total** | **18,983** | **6,380** | **5,353** | **3,450** | **4,919** | **9,787** | **3,953** | **3,377** | **3,373** | **3,770** | **8,641** | **32,811** | **997** | **21,112** | **4,827** | **0** | **5,860** | **4,876** | **0** | **14,039** | **4,659** | **23,674** | **184,841** |

Source: QGSO (2018), NIEIR (2019) and CDM Smith analysis

## P.1.7 Usual Resident Workforce Projections – SA2s in Ipswich City, 2036

| 2 Digit Level | Rosewood | Brassall | Bundamba | Churchill - Yamanto | Ipswich - Central | Ipswich - East | Ipswich - North | Karalee - Barellan Point | Leichhardt - One Mile | North Ipswich - Tivoli | Raceview | Ripley | Riverview | Bellbird Park - Brookwater | Camira - Gailes | Carole Park | Collingwood Park - Redbank | Goodna | New Chum | Redbank Plains | Springfield | Springfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Agriculture, Forestry and Fishing, nfd | 2 | 0 | 0 | 0 | 1 | 10 | 2 | 0 | 0 | 1 | 1 | 8 | 0 | 3 | 0 | 0 | 2 | 1 | 0 | 2 | 1 | 5 | 40 |
| Agriculture | 840 | 16 | 34 | 23 | 73 | 156 | 119 | 18 | 52 | 65 | 96 | 524 | 0 | 206 | 16 | 0 | 97 | 50 | 0 | 150 | 59 | 320 | 2,914 |
| Aquaculture | 7 | 23 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 0 | 17 | 0 | 0 | 0 | 1 | 0 | 35 | 0 | 0 | 18 | 0 | 0 | 131 |
| Forestry and Logging | 40 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 51 |
| Fishing, Hunting and Trapping | 0 | 0 | 0 | 0 | 0 | 11 | 25 | 0 | 3 | 29 | 0 | 0 | 0 | 5 | 2 | 0 | 0 | 0 | 0 | 1 | 3 | 4 | 83 |
| Agriculture, Forestry and Fishing Support Services | 0 | 0 | 0 | 7 | 0 | 0 | 15 | 0 | 20 | 10 | 0 | 0 | 0 | 60 | 19 | 0 | 0 | 7 | 0 | 29 | 20 | 58 | 243 |
| Mining, nfd | 0 | 0 | 0 | 10 | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 62 | 12 | 0 | 7 | 1 | 0 | 15 | 3 | 24 | 139 |
| Coal Mining | 0 | 0 | 0 | 14 | 4 | 0 | 5 | 12 | 10 | 0 | 0 | 0 | 6 | 127 | 23 | 0 | 8 | 17 | 0 | 29 | 15 | 13 | 284 |
| Oil and Gas Extraction | 77 | 12 | 1 | 0 | 0 | 11 | 9 | 9 | 2 | 7 | 33 | 371 | 0 | 111 | 0 | 0 | 14 | 10 | 0 | 4 | 0 | 208 | 879 |
| Metal Ore Mining | 49 | 2 | 17 | 0 | 0 | 6 | 0 | 53 | 0 | 24 | 0 | 0 | 0 | 48 | 0 | 0 | 0 | 0 | 0 | 52 | 33 | 244 | 528 |
| Non-Metallic Mineral Mining and Quarrying | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Exploration and Other Mining Support Services | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Manufacturing, nfd | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| 2 Digit Level | Rosewood | Brassall | Bundamba | Churchill - Yamanto | Ipswich - Central | Ipswich - East | Ipswich - North | Karalee - Barellan Point | Leichhardt - One Mile | North Ipswich - Tivoli | Raceview | Ripley | Riverview | Bellbird Park - Brookwater | Camira - Gailes | Carole Park | Collingwood Park - Redbank | Goodna | New Chum | Redbank Plains | Springfield | Springfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Food Product Manufacturing | 562 | 183 | 51 | 120 | 60 | 134 | 188 | 23 | 264 | 194 | 285 | 797 | 0 | 487 | 137 | 0 | 301 | 507 | 0 | 1,022 | 69 | 474 | 5,856 |
| Beverage and Tobacco Product Manufacturing | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Textile, Leather, Clothing and Footwear Manufacturing | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wood Product Manufacturing | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pulp, Paper and Converted Paper Product Manufacturing | 0 | 6 | 0 | 5 | 3 | 0 | 0 | 6 | 0 | 3 | 5 | 0 | 1 | 36 | 3 | 0 | 34 | 9 | 0 | 5 | 0 | 0 | 117 |
| Printing (including the Reproduction of Recorded Media) | 0 | 0 | 7 | 0 | 38 | 16 | 5 | 0 | 11 | 9 | 0 | 0 | 0 | 0 | 6 | 0 | 13 | 0 | 0 | 4 | 25 | 0 | 135 |
| Petroleum and Coal Product Manufacturing | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 4 |
| Basic Chemical and Chemical Product Manufacturing | 59 | 0 | 0 | 14 | 0 | 0 | 26 | 0 | 6 | 0 | 52 | 0 | 0 | 145 | 2 | 0 | 0 | 0 | 0 | 80 | 11 | 213 | 608 |
| Polymer Product and Rubber Product Manufacturing | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Non-Metallic Mineral Product Manufacturing | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Primary Metal and Metal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| 2 Digit Level | Rosewood | Brassall | Bundamba | Churchill - Yamanto | Ipswich - Central | Ipswich - East | Ipswich - North | Karalee - Barellan Point | Leichhardt - One Mile | North Ipswich - Tivoli | Raceview | Ripley | Riverview | Bellbird Park - Brookwater | Camira - Gailes | Carole Park | Collingwood Park - Redbank | Goodna | New Chum | Redbank Plains | Springfield | Springfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Product Manufacturing | | | | | | | | | | | | | | | | | | | | | | | |
| Fabricated Metal Product Manufacturing | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Transport Equipment Manufacturing | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Machinery and Equipment Manufacturing | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Furniture and Other Manufacturing | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Electricity, Gas, Water and Waste Services, nfd | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 39 | 0 | 0 | 92 | 3 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 140 |
| Electricity Supply | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Gas Supply | 52 | 0 | 15 | 1 | 8 | 4 | 31 | 1 | 1 | 22 | 14 | 40 | 0 | 31 | 0 | 0 | 0 | 0 | 0 | 19 | 12 | 61 | 312 |
| Water Supply, Sewerage and Drainage Services | 27 | 3 | 39 | 20 | 86 | 65 | 8 | 29 | 24 | 31 | 38 | 550 | 0 | 75 | 0 | 0 | 17 | 0 | 0 | 14 | 13 | 142 | 1,179 |
| Waste Collection, Treatment and Disposal Services | 365 | 21 | 0 | 34 | 17 | 52 | 10 | 30 | 0 | 58 | 95 | 0 | 8 | 88 | 0 | 0 | 64 | 23 | 0 | 104 | 22 | 126 | 1,118 |
| Construction, nfd | 287 | 15 | 63 | 35 | 145 | 98 | 31 | 19 | 42 | 59 | 26 | 270 | 12 | 448 | 97 | 0 | 51 | 46 | 0 | 101 | 25 | 241 | 2,114 |
| Building Construction | 336 | 225 | 94 | 96 | 329 | 362 | 56 | 49 | 48 | 163 | 142 | 1,970 | 20 | 773 | 169 | 0 | 177 | 146 | 0 | 192 | 148 | 156 | 5,651 |

| 2 Digit Level | Rosewood | Brassall | Bundamba | Churchill - Yamanto | Ipswich - Central | Ipswich - East | Ipswich - North | Karalee - Barellan Point | Leichhardt - One Mile | North Ipswich - Tivoli | Raceview | Ripley | Riverview | Bellbird Park - Brookwater | Camira - Gailes | Carole Park | Collingwood Park - Redbank | Goodna | New Chum | Redbank Plains | Springfield | Springfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Heavy and Civil Engineering Construction | 4 | 1 | 0 | 0 | 1 | 2 | 1 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 20 |
| Construction Services | 2,281 | 467 | 400 | 230 | 303 | 1,022 | 350 | 304 | 268 | 430 | 833 | 3,454 | 42 | 1,239 | 623 | 0 | 539 | 309 | 0 | 1,058 | 215 | 1,731 | 16,098 |
| Wholesale Trade, nfd | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Basic Material Wholesaling | 0 | 0 | 0 | 0 | 0 | 19 | 0 | 0 | 20 | 14 | 8 | 140 | 15 | 10 | 35 | 0 | 70 | 11 | 0 | 0 | 0 | 97 | 439 |
| Machinery and Equipment Wholesaling | 46 | 19 | 0 | 3 | 34 | 12 | 0 | 0 | 1 | 45 | 1 | 383 | 0 | 0 | 0 | 0 | 37 | 0 | 0 | 12 | 6 | 53 | 651 |
| Motor Vehicle and Motor Vehicle Parts Wholesaling | 66 | 12 | 25 | 0 | 59 | 13 | 31 | 0 | 3 | 51 | 36 | 407 | 4 | 23 | 0 | 0 | 0 | 0 | 0 | 137 | 18 | 0 | 884 |
| Grocery, Liquor and Tobacco Product Wholesaling | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other Goods Wholesaling | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commission-Based Wholesaling | 0 | 3 | 2 | 0 | 0 | 6 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 13 | 0 | 0 | 29 |
| Retail Trade, nfd | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Motor Vehicle and Motor Vehicle Parts Retailing | 547 | 136 | 91 | 87 | 0 | 168 | 122 | 38 | 64 | 10 | 66 | 313 | 0 | 338 | 34 | 0 | 113 | 27 | 0 | 281 | 51 | 185 | 2,673 |
| Fuel Retailing | 243 | 0 | 59 | 6 | 29 | 16 | 21 | 37 | 21 | 0 | 22 | 341 | 0 | 0 | 25 | 0 | 14 | 37 | 0 | 48 | 39 | 76 | 1,036 |
| Food Retailing | 1,338 | 264 | 501 | 207 | 154 | 356 | 133 | 251 | 139 | 167 | 482 | 2,422 | 21 | 942 | 213 | 0 | 343 | 169 | 0 | 426 | 164 | 445 | 9,137 |
| Other Store-Based Retailing | 1,042 | 179 | 374 | 189 | 274 | 506 | 230 | 137 | 54 | 160 | 500 | 1,822 | 48 | 1,071 | 290 | 0 | 421 | 333 | 0 | 885 | 165 | 2,213 | 10,893 |

| 2 Digit Level | Rosewood | Brassall | Bundamba | Churchill - Yamanto | Ipswich - Central | Ipswich - East | Ipswich - North | Karalee - Barellan Point | Leichhardt - One Mile | North Ipswich - Tivoli | Raceview | Ripley | Riverview | Bellbird Park - Brookwater | Camira - Gailes | Carole Park | Collingwood Park - Redbank | Goodna | New Chum | Redbank Plains | Springfield | Springfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Non-Store Retailing and Retail Commission-Based Buying and/or Selling | 56 | 0 | 20 | 12 | 0 | 21 | 17 | 0 | 0 | 0 | 3 | 1 | 0 | 60 | 12 | 0 | 0 | 0 | 0 | 21 | 12 | 3 | 240 |
| Accommodation and Food Services, nfd | 0 | 1 | 0 | 2 | 8 | 6 | 0 | 7 | 0 | 5 | 9 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 54 |
| Accommodation | 0 | 25 | 6 | 10 | 32 | 30 | 0 | 34 | 0 | 25 | 48 | 0 | 11 | 34 | 4 | 0 | 15 | 10 | 0 | 12 | 27 | 175 | 498 |
| Food and Beverage Services | 1,324 | 611 | 426 | 225 | 351 | 672 | 196 | 376 | 343 | 239 | 780 | 1,296 | 93 | 1,935 | 287 | 0 | 671 | 188 | 0 | 853 | 668 | 3,483 | 15,017 |
| Transport, Postal and Warehousing, nfd | 262 | 39 | 95 | 23 | 48 | 83 | 43 | 29 | 55 | 2 | 83 | 525 | 0 | 193 | 27 | 0 | 23 | 59 | 0 | 161 | 58 | 266 | 2,074 |
| Road Transport | 621 | 215 | 277 | 87 | 225 | 432 | 16 | 6 | 65 | 0 | 197 | 0 | 69 | 482 | 63 | 0 | 137 | 227 | 0 | 833 | 215 | 661 | 4,830 |
| Rail Transport | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Water Transport | 0 | 1 | 13 | 1 | 1 | 13 | 2 | 0 | 0 | 2 | 0 | 14 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 13 | 9 | 0 | 95 |
| Air and Space Transport | 42 | 22 | 3 | 19 | 23 | 39 | 47 | 30 | 14 | 38 | 4 | 359 | 0 | 135 | 3 | 0 | 36 | 7 | 0 | 0 | 33 | 157 | 1,011 |
| Other Transport | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 5 | 0 | 1 | 4 | 8 | 0 | 0 | 3 | 0 | 2 | 1 | 0 | 22 | 1 | 32 | 82 |
| Postal and Courier Pick-up and Delivery Services | 143 | 112 | 35 | 10 | 53 | 185 | 0 | 33 | 30 | 73 | 177 | 413 | 23 | 327 | 118 | 0 | 95 | 79 | 0 | 216 | 59 | 595 | 2,777 |
| Transport Support Services | 85 | 58 | 23 | 9 | 25 | 92 | 0 | 17 | 34 | 50 | 66 | 118 | 9 | 101 | 9 | 0 | 106 | 19 | 0 | 208 | 54 | 199 | 1,283 |

| 2 Digit Level | Rosewood | Brassall | Bundamba | Churchill - Yamanto | Ipswich - Central | Ipswich - East | Ipswich - North | Karalee - Barellan Point | Leichhardt - One Mile | North Ipswich - Tivoli | Raceview | Ripley | Riverview | Bellbird Park - Brookwater | Camira - Gailes | Carole Park | Collingwood Park - Redbank | Goodna | New Chum | Redbank Plains | Springfield | Springfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Warehousing and Storage Services | 434 | 62 | 115 | 50 | 132 | 199 | 0 | 25 | 79 | 75 | 152 | 335 | 41 | 451 | 89 | 0 | 215 | 180 | 0 | 830 | 244 | 926 | 4,631 |
| Information Media and Telecommunications, nfd | 2 | 0 | 0 | 0 | 0 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 47 |
| Publishing (except Internet and Music Publishing) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Motion Picture and Sound Recording Activities | 0 | 58 | 53 | 15 | 57 | 29 | 47 | 9 | 0 | 25 | 67 | 253 | 0 | 275 | 42 | 0 | 20 | 8 | 0 | 34 | 36 | 207 | 1,234 |
| Broadcasting (except Internet) | 86 | 14 | 0 | 12 | 0 | 13 | 0 | 0 | 16 | 0 | 0 | 1 | 0 | 51 | 2 | 0 | 0 | 0 | 0 | 65 | 0 | 50 | 309 |
| Internet Publishing and Broadcasting | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 11 | 16 |
| Telecommunications Services | 1 | 38 | 0 | 28 | 0 | 45 | 16 | 27 | 0 | 55 | 17 | 52 | 7 | 104 | 3 | 0 | 22 | 24 | 0 | 69 | 56 | 606 | 1,171 |
| Internet Service Providers, Web Search Portals and Data Processing Services | 10 | 8 | 0 | 20 | 8 | 0 | 3 | 12 | 0 | 35 | 29 | 0 | 19 | 113 | 37 | 0 | 16 | 0 | 0 | 66 | 20 | 303 | 698 |
| Library and Other Information Services | 83 | 1 | 0 | 0 | 0 | 0 | 19 | 0 | 0 | 33 | 0 | 0 | 0 | 0 | 1 | 0 | 22 | 0 | 0 | 0 | 28 | 0 | 187 |
| Financial and Insurance Services, nfd | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| 2 Digit Level | Rose wood | Brass all | Bund amba | Churc hill - Yama nto | Ipswi ch - Centr al | Ipswi ch - East | Ipswi ch - North | Karal ee - Barell an Point | Leich hardt - One Mile | North Ipswi ch - Tivoli | Racev iew | Riple y | River view | Bellbi rd Park - Brook water | Camir a - Gailes | Carol e Park | Collin gwoo d Park - Redb ank | Good na | New Chum | Redb ank Plains | Sprin gfield | Sprin gfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Finance | 282 | 102 | 0 | 80 | 46 | 91 | 6 | 0 | 82 | 12 | 44 | 609 | 15 | 0 | 61 | 0 | 6 | 17 | 0 | 100 | 54 | 701 | 2,309 |
| Insurance and Superannuation Funds | 34 | 44 | 52 | 11 | 16 | 2 | 20 | 22 | 0 | 14 | 5 | 757 | 11 | 134 | 26 | 0 | 40 | 25 | 0 | 51 | 26 | 296 | 1,586 |
| Auxiliary Finance and Insurance Services | 249 | 43 | 24 | 44 | 29 | 20 | 20 | 45 | 26 | 73 | 99 | 914 | 11 | 327 | 31 | 0 | 33 | 37 | 0 | 246 | 49 | 290 | 2,609 |
| Rental, Hiring and Real Estate Services, nfd | 5 | 4 | 0 | 5 | 0 | 13 | 1 | 0 | 2 | 9 | 5 | 0 | 2 | 0 | 2 | 0 | 6 | 0 | 0 | 18 | 6 | 31 | 109 |
| Rental and Hiring Services (except Real Estate) | 27 | 27 | 0 | 28 | 0 | 106 | 14 | 0 | 15 | 70 | 37 | 0 | 11 | 0 | 18 | 0 | 53 | 9 | 0 | 169 | 49 | 215 | 846 |
| Property Operators and Real Estate Services | 363 | 131 | 205 | 58 | 100 | 245 | 17 | 52 | 48 | 102 | 223 | 896 | 10 | 653 | 141 | 0 | 140 | 89 | 0 | 291 | 79 | 766 | 4,609 |
| Professional, Scientific and Technical Services, nfd | 21 | 1 | 13 | 0 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 46 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 107 |
| Professional, Scientific and Technical Services (except Computer System Design and Related Services) | 929 | 220 | 156 | 80 | 241 | 287 | 187 | 105 | 1 | 76 | 190 | 1,986 | 21 | 1,234 | 73 | 0 | 129 | 2 | 0 | 144 | 96 | 891 | 7,049 |
| Computer System Design and Related Services | 363 | 67 | 17 | 41 | 42 | 59 | 16 | 57 | 0 | 43 | 103 | 0 | 24 | 431 | 43 | 0 | 75 | 0 | 0 | 253 | 65 | 589 | 2,287 |
| Administrative and Support Services, nfd | 12 | 0 | 3 | 2 | 0 | 2 | 0 | 0 | 4 | 0 | 3 | 11 | 1 | 0 | 4 | 0 | 1 | 7 | 0 | 6 | 3 | 4 | 62 |

| 2 Digit Level | Rosewood | Brassall | Bundamba | Churchill - Yamanto | Ipswich - Central | Ipswich - East | Ipswich - North | Karalee - Barellan Point | Leichhardt - One Mile | North Ipswich - Tivoli | Raceview | Ripley | Riverview | Bellbird Park - Brookwater | Camira - Gailes | Carole Park | Collingwood Park - Redbank | Goodna | New Chum | Redbank Plains | Springfield | Springfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Administrative Services | 490 | 65 | 126 | 47 | 85 | 201 | 0 | 14 | 121 | 0 | 153 | 627 | 31 | 290 | 106 | 0 | 91 | 196 | 0 | 352 | 129 | 602 | 3,725 |
| Building Cleaning, Pest Control and Other Support Services | 1,042 | 255 | 223 | 55 | 343 | 454 | 68 | 89 | 231 | 5 | 259 | 1,396 | 56 | 357 | 150 | 0 | 147 | 241 | 0 | 537 | 181 | 462 | 6,552 |
| Public Administration and Safety, nfd | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 49 | 0 | 0 | 58 |
| Public Administration | 0 | 58 | 139 | 74 | 226 | 248 | 0 | 145 | 51 | 126 | 185 | 1,668 | 12 | 712 | 46 | 0 | 61 | 27 | 0 | 170 | 73 | 713 | 4,735 |
| Defence | 763 | 34 | 0 | 191 | 38 | 16 | 55 | 33 | 0 | 0 | 64 | 4,056 | 3 | 823 | 6 | 0 | 1 | 22 | 0 | 7 | 33 | 485 | 6,630 |
| Public Order, Safety and Regulatory Services | 1,089 | 205 | 54 | 70 | 128 | 250 | 34 | 168 | 95 | 130 | 253 | 1,439 | 20 | 646 | 26 | 0 | 30 | 88 | 0 | 355 | 119 | 1,149 | 6,350 |
| Education and Training, nfd | 125 | 23 | 28 | 15 | 33 | 33 | 14 | 0 | 22 | 22 | 45 | 51 | 0 | 106 | 26 | 0 | 22 | 13 | 0 | 46 | 29 | 147 | 800 |
| Preschool and School Education | 2,846 | 549 | 411 | 268 | 820 | 1,072 | 483 | 358 | 407 | 472 | 857 | 5,743 | 34 | 1,906 | 407 | 0 | 609 | 360 | 0 | 950 | 491 | 2,900 | 21,946 |
| Tertiary Education | 340 | 13 | 40 | 20 | 112 | 149 | 60 | 31 | 64 | 38 | 48 | 812 | 14 | 596 | 67 | 0 | 106 | 89 | 0 | 100 | 80 | 625 | 3,404 |
| Adult, Community and Other Education | 82 | 0 | 6 | 19 | 13 | 30 | 59 | 0 | 11 | 6 | 17 | 653 | 5 | 243 | 26 | 0 | 39 | 30 | 0 | 16 | 14 | 103 | 1,369 |
| Health Care and Social Assistance, nfd | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hospitals | 1,313 | 371 | 162 | 179 | 246 | 586 | 234 | 202 | 215 | 196 | 613 | 1,213 | 22 | 2,300 | 189 | 0 | 269 | 24 | 0 | 460 | 193 | 1,640 | 10,626 |
| Medical and Other Health Care Services | 1,198 | 308 | 201 | 165 | 509 | 356 | 198 | 118 | 130 | 158 | 306 | 1,801 | 25 | 1,733 | 307 | 0 | 275 | 268 | 0 | 426 | 317 | 1,519 | 10,319 |

| 2 Digit Level | Rosewood | Brassall | Bundamba | Churchill - Yamanto | Ipswich - Central | Ipswich - East | Ipswich - North | Karalee - Barellan Point | Leichhardt - One Mile | North Ipswich - Tivoli | Raceview | Ripley | Riverview | Bellbird Park - Brookwater | Camira - Gailes | Carole Park | Collingwood Park - Redbank | Goodna | New Chum | Redbank Plains | Springfield | Springfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Residential Care Services | 748 | 226 | 261 | 52 | 70 | 385 | 44 | 72 | 108 | 117 | 279 | 1,500 | 54 | 755 | 84 | 0 | 220 | 289 | 0 | 698 | 36 | 1,017 | 7,015 |
| Social Assistance Services | 1,211 | 382 | 425 | 157 | 236 | 697 | 274 | 55 | 153 | 200 | 400 | 1,610 | 65 | 1,262 | 284 | 0 | 434 | 528 | 0 | 1,707 | 264 | 1,746 | 12,089 |
| Arts and Recreation Services, nfd | 20 | 4 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 1 | 2 | 38 |
| Heritage Activities | 50 | 0 | 3 | 1 | 0 | 44 | 0 | 0 | 0 | 16 | 9 | 0 | 0 | 51 | 0 | 0 | 0 | 11 | 0 | 17 | 11 | 63 | 276 |
| Creative and Performing Arts Activities | 58 | 23 | 14 | 8 | 30 | 4 | 4 | 0 | 18 | 6 | 23 | 241 | 11 | 31 | 8 | 0 | 11 | 1 | 0 | 24 | 0 | 51 | 566 |
| Sports and Recreation Activities | 89 | 75 | 18 | 7 | 49 | 35 | 59 | 26 | 55 | 47 | 63 | 631 | 10 | 140 | 0 | 0 | 71 | 38 | 0 | 125 | 32 | 215 | 1,784 |
| Gambling Activities | 0 | 21 | 5 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 9 | 163 | 0 | 74 | 0 | 0 | 0 | 16 | 0 | 44 | 10 | 61 | 405 |
| Other Services, nfd | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Repair and Maintenance | 959 | 131 | 142 | 96 | 167 | 310 | 97 | 59 | 95 | 124 | 190 | 879 | 10 | 47 | 134 | 0 | 55 | 142 | 0 | 404 | 158 | 352 | 4,552 |
| Personal and Other Services | 662 | 395 | 158 | 47 | 184 | 404 | 114 | 69 | 79 | 172 | 127 | 887 | 59 | 638 | 173 | 0 | 190 | 302 | 0 | 425 | 111 | 828 | 6,022 |
| Private Households Employing Staff and Undifferentiated Goods and Service-Producing Activities of Households for Own Use | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 58 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 0 | 91 |
| **Total** | **26,790** | **6,633** | **5,728** | **3,454** | **6,344** | **11,043** | **3,909** | **3,360** | **3,727** | **4,456** | **9,040** | **47,773** | **990** | **26,284** | **4,862** | **0** | **6,856** | **5,379** | **0** | **16,301** | **5,377** | **33,261** | **231,566** |

Source: QGSO (2018), NIEIR (2019) and CDM Smith analysis

## P.1.8 Usual Resident Workforce Projections – SA2s in Ipswich City, 2041

| 2 Digit Level | Rosewood | Brassall | Bundamba | Churchill - Yamanto | Ipswich - Central | Ipswich - East | Ipswich - North | Karalee - Barellan Point | Leichhardt - One Mile | North Ipswich - Tivoli | Raceview | Ripley | Riverview | Bellbird Park - Brookwater | Camira - Gailes | Carole Park | Collingwood Park - Redbank | Goodna | New Chum | Redbank Plains | Springfield | Springfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Agriculture, Forestry and Fishing, nfd | 2 | 0 | 0 | 0 | 1 | 12 | 2 | 0 | 0 | 1 | 2 | 12 | 0 | 4 | 0 | 0 | 2 | 1 | 0 | 2 | 1 | 7 | 50 |
| Agriculture | 1,139 | 16 | 37 | 23 | 96 | 181 | 116 | 18 | 56 | 76 | 96 | 739 | 0 | 226 | 16 | 0 | 112 | 53 | 0 | 163 | 68 | 425 | 3,655 |
| Aquaculture | 10 | 25 | 0 | 0 | 0 | 39 | 0 | 0 | 0 | 1 | 19 | 0 | 0 | 0 | 2 | 0 | 46 | 0 | 0 | 23 | 0 | 0 | 164 |
| Forestry and Logging | 52 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 64 |
| Fishing, Hunting and Trapping | 0 | 0 | 0 | 1 | 0 | 14 | 26 | 0 | 3 | 36 | 0 | 0 | 0 | 9 | 3 | 0 | 0 | 0 | 0 | 2 | 3 | 7 | 105 |
| Agriculture, Forestry and Fishing Support Services | 0 | 0 | 0 | 7 | 0 | 0 | 16 | 0 | 23 | 13 | 0 | 0 | 0 | 74 | 21 | 0 | 0 | 8 | 0 | 35 | 26 | 80 | 304 |
| Mining, nfd | 0 | 0 | 0 | 11 | 0 | 2 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 73 | 12 | 0 | 9 | 1 | 0 | 17 | 3 | 39 | 170 |
| Coal Mining | 0 | 0 | 0 | 15 | 6 | 0 | 5 | 13 | 11 | 0 | 0 | 0 | 7 | 147 | 24 | 0 | 10 | 19 | 0 | 34 | 19 | 23 | 331 |
| Oil and Gas Extraction | 103 | 12 | 1 | 0 | 0 | 12 | 9 | 8 | 2 | 8 | 32 | 503 | 0 | 117 | 0 | 0 | 16 | 10 | 0 | 4 | 0 | 268 | 1,107 |
| Metal Ore Mining | 64 | 2 | 18 | 0 | 0 | 7 | 0 | 56 | 0 | 29 | 0 | 0 | 0 | 55 | 0 | 0 | 0 | 0 | 0 | 58 | 39 | 336 | 663 |
| Non-Metallic Mineral Mining and Quarrying | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Exploration and Other Mining Support Services | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Manufacturing, nfd | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Food Product Manufacturing | 795 | 190 | 56 | 128 | 83 | 162 | 194 | 24 | 300 | 239 | 301 | 1,178 | 0 | 560 | 142 | 0 | 365 | 568 | 0 | 1,165 | 81 | 661 | 7,190 |

| 2 Digit Level | Rosewood | Brassall | Bundamba | Churchill - Yamanto | Ipswich - Central | Ipswich - East | Ipswich - North | Karalee - Barellan Point | Leichhardt - One Mile | North Ipswich - Tivoli | Raceview | Ripley | Riverview | Bellbird Park - Brookwater | Camira - Gaileis | Carole Park | Collingwood Park - Redbank | Goodna | New Chum | Redbank Plains | Springfield | Springfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Beverage and Tobacco Product Manufacturing | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Textile, Leather, Clothing and Footwear Manufacturing | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wood Product Manufacturing | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pulp, Paper and Converted Paper Product Manufacturing | 0 | 7 | 0 | 5 | 4 | 0 | 0 | 7 | 0 | 3 | 5 | 0 | 1 | 40 | 3 | 0 | 42 | 10 | 0 | 6 | 0 | 0 | 133 |
| Printing (including the Reproduction of Recorded Media) | 0 | 0 | 7 | 0 | 49 | 18 | 5 | 0 | 12 | 11 | 0 | 0 | 0 | 0 | 6 | 0 | 14 | 0 | 0 | 5 | 29 | 0 | 155 |
| Petroleum and Coal Product Manufacturing | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| Basic Chemical and Chemical Product Manufacturing | 84 | 0 | 0 | 13 | 0 | 0 | 26 | 0 | 5 | 0 | 55 | 0 | 0 | 166 | 1 | 0 | 0 | 0 | 0 | 86 | 11 | 291 | 738 |
| Polymer Product and Rubber Product Manufacturing | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Non-Metallic Mineral Product Manufacturing | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Primary Metal and Metal Product Manufacturing | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fabricated Metal Product Manufacturing | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Transport Equipment Manufacturing | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| 2 Digit Level | Rosewood | Brassall | Bundamba | Churchill - Yamanto | Ipswich - Central | Ipswich - East | Ipswich - North | Karalee - Barellan Point | Leichhardt - One Mile | North Ipswich - Tivoli | Raceview | Ripley | Riverview | Bellbird Park - Brookwater | Camira - Gaileys | Carole Park | Collingwood Park - Redbank | Goodna | New Chum | Redbank Plains | Springfield | Springfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Machinery and Equipment Manufacturing | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Furniture and Other Manufacturing | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Electricity, Gas, Water and Waste Services, nfd | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 46 | 0 | 0 | 118 | 4 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 176 |
| Electricity Supply | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Gas Supply | 79 | 0 | 16 | 1 | 11 | 5 | 31 | 2 | 0 | 28 | 16 | 49 | 0 | 35 | 0 | 0 | 1 | 0 | 0 | 22 | 14 | 84 | 393 |
| Water Supply, Sewerage and Drainage Services | 40 | 2 | 40 | 19 | 109 | 73 | 8 | 28 | 25 | 35 | 36 | 736 | 0 | 85 | 0 | 0 | 19 | 0 | 0 | 15 | 14 | 184 | 1,468 |
| Waste Collection, Treatment and Disposal Services | 505 | 25 | 0 | 37 | 30 | 67 | 10 | 30 | 0 | 72 | 99 | 0 | 9 | 106 | 0 | 0 | 77 | 27 | 0 | 114 | 29 | 154 | 1,390 |
| Construction, nfd | 412 | 15 | 71 | 37 | 207 | 120 | 33 | 21 | 48 | 73 | 28 | 380 | 13 | 510 | 105 | 0 | 60 | 51 | 0 | 109 | 27 | 340 | 2,660 |
| Building Construction | 480 | 224 | 103 | 96 | 429 | 431 | 56 | 51 | 54 | 194 | 153 | 2,763 | 20 | 840 | 172 | 0 | 209 | 156 | 0 | 214 | 167 | 219 | 7,031 |
| Heavy and Civil Engineering Construction | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Construction Services | 3,156 | 473 | 436 | 235 | 407 | 1,213 | 349 | 315 | 297 | 516 | 862 | 5,004 | 42 | 1,393 | 631 | 0 | 639 | 337 | 0 | 1,173 | 250 | 2,364 | 20,095 |
| Wholesale Trade, nfd | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Basic Material Wholesaling | 0 | 0 | 0 | 0 | 0 | 20 | 0 | 0 | 20 | 17 | 8 | 189 | 14 | 9 | 31 | 0 | 74 | 10 | 0 | 0 | 0 | 116 | 508 |
| Machinery and Equipment Wholesaling | 51 | 17 | 0 | 2 | 40 | 12 | 0 | 0 | 1 | 47 | 0 | 481 | 0 | 0 | 0 | 0 | 38 | 0 | 0 | 10 | 6 | 59 | 764 |

| 2 Digit Level | Rosewood | Brassall | Bundamba | Churchill - Yamanto | Ipswich - Central | Ipswich - East | Ipswich - North | Karalee - Barellan Point | Leichhardt - One Mile | North Ipswich - Tivoli | Raceview | Ripley | Riverview | Bellbird Park - Brookwater | Camira - Gaileis | Carole Park | Collingwood Park - Redbank | Goodna | New Chum | Redbank Plains | Springfield | Springfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Motor Vehicle and Motor Vehicle Parts Wholesaling | 89 | 13 | 28 | 0 | 74 | 14 | 29 | 0 | 1 | 58 | 35 | 561 | 4 | 15 | 0 | 0 | 0 | 0 | 0 | 146 | 19 | 0 | 1,087 |
| Grocery, Liquor and Tobacco Product Wholesaling | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other Goods Wholesaling | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commission-Based Wholesaling | 0 | 4 | 3 | 0 | 0 | 8 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 16 | 0 | 0 | 36 |
| Retail Trade, nfd | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Motor Vehicle and Motor Vehicle Parts Retailing | 778 | 139 | 109 | 92 | 0 | 201 | 124 | 45 | 72 | 14 | 74 | 496 | 0 | 387 | 36 | 0 | 138 | 29 | 0 | 305 | 60 | 230 | 3,327 |
| Fuel Retailing | 323 | 0 | 64 | 6 | 37 | 16 | 21 | 37 | 19 | 0 | 21 | 450 | 0 | 0 | 25 | 0 | 18 | 42 | 0 | 54 | 42 | 113 | 1,290 |
| Food Retailing | 1,843 | 265 | 544 | 211 | 205 | 420 | 133 | 258 | 151 | 199 | 495 | 3,475 | 21 | 1,054 | 214 | 0 | 401 | 182 | 0 | 471 | 192 | 600 | 11,334 |
| Other Store-Based Retailing | 1,432 | 180 | 405 | 193 | 366 | 596 | 228 | 141 | 60 | 191 | 513 | 2,614 | 48 | 1,196 | 290 | 0 | 493 | 359 | 0 | 977 | 192 | 2,992 | 13,466 |
| Non-Store Retailing and Retail Commission-Based Buying and/or Selling | 78 | 0 | 24 | 13 | 0 | 28 | 19 | 0 | 0 | 1 | 5 | 0 | 0 | 73 | 13 | 0 | 0 | 0 | 0 | 25 | 15 | 5 | 300 |
| Accommodation and Food Services, nfd | 0 | 2 | 1 | 1 | 2 | 1 | 0 | 5 | 0 | 2 | 6 | 0 | 1 | 5 | 0 | 0 | 3 | 0 | 0 | 0 | 5 | 33 | 69 |
| Accommodation | 0 | 25 | 7 | 11 | 43 | 35 | 0 | 35 | 0 | 30 | 49 | 0 | 11 | 40 | 4 | 0 | 17 | 11 | 0 | 14 | 32 | 235 | 599 |
| Food and Beverage Services | 1,857 | 637 | 480 | 238 | 489 | 822 | 198 | 397 | 386 | 289 | 827 | 1,814 | 96 | 2,230 | 293 | 0 | 809 | 209 | 0 | 976 | 805 | 4,863 | 18,716 |
| Transport, Postal and Warehousing, nfd | 355 | 39 | 107 | 22 | 62 | 96 | 44 | 33 | 64 | 0 | 84 | 696 | 0 | 224 | 30 | 0 | 24 | 69 | 0 | 195 | 75 | 402 | 2,620 |

| 2 Digit Level | Rosewood | Brassall | Bundamba | Churchill - Yamanto | Ipswich - Central | Ipswich - East | Ipswich - North | Karalee - Barellan Point | Leichhardt - One Mile | North Ipswich - Tivoli | Raceview | Ripley | Riverview | Bellbird Park - Brookwater | Camira - Gaileys | Carole Park | Collingwood Park - Redbank | Goodna | New Chum | Redbank Plains | Springfield | Springfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Road Transport | 884 | 224 | 312 | 92 | 312 | 527 | 16 | 6 | 74 | 0 | 210 | 0 | 71 | 559 | 66 | 0 | 164 | 254 | 0 | 952 | 260 | 917 | 5,899 |
| Rail Transport | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Water Transport | 0 | 1 | 15 | 1 | 2 | 15 | 2 | 1 | 1 | 2 | 0 | 22 | 0 | 28 | 0 | 0 | 0 | 0 | 0 | 16 | 12 | 0 | 117 |
| Air and Space Transport | 55 | 22 | 3 | 18 | 30 | 47 | 44 | 30 | 15 | 44 | 7 | 500 | 0 | 148 | 5 | 0 | 42 | 8 | 0 | 0 | 37 | 214 | 1,268 |
| Other Transport | 0 | 3 | 0 | 0 | 1 | 0 | 0 | 5 | 0 | 2 | 4 | 10 | 0 | 0 | 3 | 0 | 2 | 1 | 0 | 25 | 1 | 45 | 102 |
| Postal and Courier Pick-up and Delivery Services | 209 | 113 | 40 | 11 | 75 | 220 | 0 | 34 | 34 | 89 | 184 | 603 | 23 | 371 | 119 | 0 | 116 | 89 | 0 | 255 | 73 | 822 | 3,479 |
| Transport Support Services | 123 | 62 | 27 | 10 | 36 | 115 | 0 | 18 | 40 | 63 | 72 | 144 | 9 | 121 | 10 | 0 | 130 | 22 | 0 | 242 | 66 | 286 | 1,596 |
| Warehousing and Storage Services | 625 | 64 | 129 | 53 | 184 | 241 | 0 | 27 | 90 | 92 | 162 | 485 | 42 | 529 | 93 | 0 | 263 | 203 | 0 | 957 | 297 | 1,299 | 5,835 |
| Information Media and Telecommunications, nfd | 2 | 0 | 0 | 0 | 1 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 22 | 59 |
| Publishing (except Internet and Music Publishing) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Motion Picture and Sound Recording Activities | 0 | 60 | 60 | 16 | 79 | 36 | 49 | 9 | 0 | 31 | 71 | 376 | 0 | 319 | 44 | 0 | 24 | 9 | 0 | 39 | 44 | 290 | 1,556 |
| Broadcasting (except Internet) | 118 | 14 | 0 | 12 | 0 | 16 | 0 | 0 | 17 | 0 | 0 | 0 | 0 | 57 | 2 | 0 | 0 | 0 | 0 | 72 | 1 | 78 | 386 |
| Internet Publishing and Broadcasting | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 15 | 20 |
| Telecommunications Services | 5 | 38 | 0 | 29 | 0 | 53 | 16 | 27 | 0 | 66 | 17 | 74 | 7 | 112 | 3 | 0 | 26 | 26 | 0 | 75 | 66 | 813 | 1,454 |
| Internet Service Providers, Web Search Portals and | 10 | 8 | 0 | 21 | 10 | 0 | 3 | 13 | 0 | 43 | 31 | 0 | 19 | 134 | 39 | 0 | 19 | 0 | 0 | 75 | 24 | 428 | 879 |

| 2 Digit Level | Rosewood | Brassall | Bundamba | Churchill - Yamanto | Ipswich - Central | Ipswich - East | Ipswich - North | Karalee - Barellan Point | Leichhardt - One Mile | North Ipswich - Tivoli | Raceview | Ripley | Riverview | Bellbird Park - Brookwater | Camira - Gaileys | Carole Park | Collingwood Park - Redbank | Goodna | New Chum | Redbank Plains | Springfield | Springfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Data Processing Services | | | | | | | | | | | | | | | | | | | | | | | |
| Library and Other Information Services | 116 | 2 | 0 | 1 | 0 | 0 | 18 | 0 | 0 | 38 | 0 | 0 | 0 | 0 | 1 | 0 | 24 | 0 | 0 | 0 | 32 | 0 | 234 |
| Financial and Insurance Services, nfd | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Finance | 369 | 97 | 0 | 78 | 58 | 100 | 6 | 0 | 84 | 15 | 44 | 843 | 14 | 0 | 58 | 0 | 7 | 17 | 0 | 109 | 60 | 888 | 2,847 |
| Insurance and Superannuation Funds | 44 | 42 | 54 | 11 | 20 | 2 | 18 | 21 | 0 | 15 | 5 | 1,026 | 10 | 141 | 25 | 0 | 45 | 26 | 0 | 53 | 29 | 379 | 1,966 |
| Auxiliary Finance and Insurance Services | 340 | 43 | 24 | 45 | 38 | 25 | 20 | 45 | 28 | 88 | 101 | 1,276 | 11 | 357 | 30 | 0 | 39 | 40 | 0 | 272 | 57 | 394 | 3,273 |
| Rental, Hiring and Real Estate Services, nfd | 8 | 5 | 0 | 4 | 0 | 16 | 0 | 0 | 2 | 11 | 7 | 0 | 2 | 0 | 4 | 0 | 8 | 1 | 0 | 20 | 6 | 42 | 137 |
| Rental and Hiring Services (except Real Estate) | 38 | 28 | 0 | 29 | 0 | 129 | 14 | 0 | 17 | 86 | 39 | 0 | 11 | 0 | 19 | 0 | 64 | 10 | 0 | 193 | 60 | 302 | 1,039 |
| Property Operators and Real Estate Services | 522 | 134 | 227 | 59 | 137 | 290 | 19 | 53 | 51 | 122 | 231 | 1,338 | 10 | 749 | 141 | 0 | 164 | 93 | 0 | 317 | 91 | 1,028 | 5,777 |
| Professional, Scientific and Technical Services, nfd | 35 | 2 | 15 | 0 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 49 | 1 | 19 | 0 | 0 | 0 | 0 | 0 | 2 | 8 | 0 | 135 |
| Professional, Scientific and Technical Services (except Computer System Design and Related Services) | 1,243 | 215 | 164 | 80 | 313 | 328 | 180 | 105 | 1 | 88 | 190 | 2,770 | 21 | 1,341 | 72 | 0 | 147 | 2 | 0 | 155 | 109 | 1,172 | 8,695 |
| Computer System Design and Related Services | 518 | 68 | 20 | 43 | 56 | 72 | 14 | 59 | 0 | 49 | 109 | 0 | 24 | 490 | 45 | 0 | 90 | 0 | 0 | 289 | 79 | 817 | 2,842 |

| 2 Digit Level | Rosewood | Brassall | Bundamba | Churchill - Yamanto | Ipswich - Central | Ipswich - East | Ipswich - North | Karalee - Barellan Point | Leichhardt - One Mile | North Ipswich - Tivoli | Raceview | Ripley | Riverview | Bellbird Park - Brookwater | Camira - Gaileys | Carole Park | Collingwood Park - Redbank | Goodna | New Chum | Redbank Plains | Springfield | Springfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Administrative and Support Services, nfd | 18 | 1 | 3 | 1 | 2 | 3 | 0 | 0 | 4 | 0 | 3 | 17 | 1 | 0 | 3 | 0 | 1 | 6 | 0 | 7 | 3 | 4 | 78 |
| Administrative Services | 676 | 65 | 137 | 48 | 114 | 237 | 0 | 14 | 133 | 0 | 157 | 902 | 31 | 322 | 107 | 0 | 107 | 213 | 0 | 390 | 151 | 816 | 4,619 |
| Building Cleaning, Pest Control and Other Support Services | 1,418 | 258 | 246 | 54 | 466 | 539 | 62 | 95 | 257 | 6 | 269 | 2,037 | 57 | 404 | 151 | 0 | 169 | 262 | 0 | 600 | 213 | 636 | 8,198 |
| Public Administration and Safety, nfd | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 66 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 73 |
| Public Administration | 0 | 56 | 142 | 71 | 286 | 277 | 0 | 143 | 52 | 143 | 181 | 2,278 | 12 | 753 | 43 | 0 | 65 | 28 | 0 | 180 | 81 | 921 | 5,711 |
| Defence | 962 | 32 | 0 | 179 | 47 | 17 | 50 | 31 | 0 | 0 | 61 | 5,325 | 2 | 843 | 5 | 0 | 1 | 21 | 0 | 7 | 36 | 602 | 8,222 |
| Public Order, Safety and Regulatory Services | 1,454 | 198 | 60 | 70 | 173 | 290 | 37 | 165 | 104 | 153 | 254 | 2,028 | 19 | 694 | 29 | 0 | 41 | 94 | 0 | 380 | 138 | 1,513 | 7,894 |
| Education and Training, nfd | 175 | 23 | 30 | 15 | 45 | 39 | 14 | 0 | 25 | 27 | 46 | 84 | 0 | 124 | 27 | 0 | 27 | 15 | 0 | 51 | 35 | 204 | 1,004 |
| Preschool and School Education | 3,871 | 546 | 441 | 271 | 1,084 | 1,247 | 475 | 363 | 441 | 556 | 871 | 8,174 | 34 | 2,114 | 404 | 0 | 707 | 386 | 0 | 1,037 | 566 | 3,881 | 27,470 |
| Tertiary Education | 459 | 12 | 42 | 19 | 144 | 171 | 59 | 32 | 69 | 44 | 47 | 1,144 | 13 | 660 | 65 | 0 | 122 | 94 | 0 | 105 | 92 | 832 | 4,225 |
| Adult, Community and Other Education | 119 | 0 | 5 | 19 | 13 | 35 | 56 | 1 | 13 | 7 | 22 | 858 | 5 | 284 | 25 | 0 | 44 | 27 | 0 | 17 | 15 | 135 | 1,699 |
| Health Care and Social Assistance, nfd | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hospitals | 1,838 | 382 | 182 | 186 | 331 | 704 | 234 | 211 | 241 | 237 | 641 | 1,804 | 23 | 2,619 | 193 | 0 | 323 | 31 | 0 | 525 | 227 | 2,277 | 13,210 |
| Medical and Other Health Care Services | 1,666 | 314 | 224 | 170 | 681 | 425 | 200 | 121 | 142 | 189 | 316 | 2,599 | 26 | 1,953 | 312 | 0 | 327 | 299 | 0 | 498 | 372 | 2,085 | 12,919 |

| 2 Digit Level | Rosewood | Brassall | Bundamba | Churchill - Yamanto | Ipswich - Central | Ipswich - East | Ipswich - North | Karalee - Barellan Point | Leichhardt - One Mile | North Ipswich - Tivoli | Raceview | Ripley | Riverview | Bellbird Park - Brookwater | Camira - Gaileis | Carole Park | Collingwood Park - Redbank | Goodna | New Chum | Redbank Plains | Springfield | Springfield Lakes | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Residential Care Services | 1,038 | 229 | 285 | 54 | 94 | 456 | 44 | 74 | 120 | 140 | 288 | 2,167 | 54 | 848 | 84 | 0 | 259 | 315 | 0 | 777 | 43 | 1,385 | 8,753 |
| Social Assistance Services | 1,718 | 396 | 475 | 165 | 324 | 847 | 279 | 58 | 172 | 246 | 423 | 2,359 | 66 | 1,455 | 293 | 0 | 524 | 589 | 0 | 1,940 | 317 | 2,436 | 15,080 |
| Arts and Recreation Services, nfd | 26 | 4 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 3 | 47 |
| Heritage Activities | 68 | 0 | 3 | 1 | 0 | 51 | 0 | 0 | 0 | 20 | 10 | 0 | 0 | 57 | 0 | 0 | 1 | 12 | 0 | 20 | 13 | 87 | 344 |
| Creative and Performing Arts Activities | 76 | 23 | 14 | 7 | 38 | 5 | 4 | 0 | 19 | 7 | 22 | 336 | 11 | 35 | 7 | 0 | 11 | 2 | 0 | 26 | 0 | 67 | 710 |
| Sports and Recreation Activities | 120 | 75 | 19 | 7 | 64 | 40 | 58 | 26 | 60 | 55 | 64 | 893 | 10 | 154 | 0 | 0 | 83 | 40 | 0 | 136 | 37 | 286 | 2,225 |
| Gambling Activities | 4 | 21 | 6 | 1 | 3 | 1 | 0 | 0 | 0 | 1 | 9 | 227 | 0 | 74 | 0 | 0 | 0 | 18 | 0 | 48 | 12 | 78 | 505 |
| Other Services, nfd | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Repair and Maintenance | 1,314 | 131 | 154 | 98 | 222 | 364 | 96 | 60 | 103 | 147 | 195 | 1,256 | 10 | 55 | 134 | 0 | 65 | 153 | 0 | 444 | 185 | 463 | 5,648 |
| Personal and Other Services | 932 | 406 | 175 | 49 | 251 | 486 | 115 | 73 | 88 | 210 | 134 | 1,301 | 60 | 729 | 178 | 0 | 228 | 333 | 0 | 479 | 132 | 1,145 | 7,503 |
| Private Households Employing Staff and Undifferentiated Goods and Service-Producing Activities of Households for Own Use | 0 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 72 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 0 | 114 |
| **Total** | **36,944** | **6,731** | **6,287** | **3,527** | **8,484** | **13,099** | **3,890** | **3,445** | **4,114** | **5,324** | **9,365** | **67,509** | **997** | **29,539** | **4,926** | **0** | **8,116** | **5,894** | **0** | **18,240** | **6,336** | **45,241** | **288,006** |

Source: QGSO (2018), NIEIR (2019) and CDM Smith analysis

# Appendix Q Employment Retention

## Q.1.1 Employment Retention by SA2 Under Each Scenario, 2019 to 2041

| | Scenario One | | | | | | | Scenario Two (Conservative) | | | | | | | Scenario Two (Optimistic) | | | | | | | | | | Scenario Three | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2016 | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 | 2016 | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 | 2016 | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 | 2016 | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Rosewood | 48.9% | 46.4% | 44.7% | 29.6% | 24.0% | 23.7% | 21.5% | 48.9% | 48.7% | 48.6% | 34.3% | 27.5% | 28.2% | 26.8% | 48.9% | 48.7% | 48.6% | 34.3% | 29.5% | 31.1% | 30.3% | 48.9% | 46.4% | 48.2% | 35.0% | 31.5% | 34.4% | 33.8% |
| Brassall | 8.7% | 8.1% | 7.7% | 6.6% | 5.6% | 3.9% | 4.1% | 8.7% | 8.5% | 8.4% | 7.6% | 6.5% | 4.7% | 5.2% | 8.7% | 8.5% | 8.4% | 7.6% | 6.9% | 5.2% | 5.8% | 8.7% | 8.1% | 8.4% | 7.8% | 7.4% | 5.4% | 6.1% |
| Bundamba | 100.1% | 100.8% | 101.2% | 94.9% | 107.3% | 120.8% | 126.5% | 100.1% | 105.9% | 110.1% | 109.8% | 122.7% | 144.1% | 157.7% | 100.1% | 105.9% | 110.1% | 109.8% | 131.9% | 158.7% | 177.9% | 100.1% | 100.8% | 110.9% | 114.8% | 145.1% | 180.7% | 206.0% |
| Churchill - Yamanto | 85.0% | 97.4% | 107.1% | 137.5% | 178.3% | 227.2% | 276.1% | 85.0% | 102.5% | 116.5% | 159.1% | 203.8% | 271.0% | 344.1% | 85.0% | 102.5% | 116.5% | 159.1% | 219.1% | 298.4% | 388.1% | 85.0% | 97.4% | 117.1% | 165.8% | 238.2% | 333.6% | 439.8% |
| Ipswich - Central | 120.0% | 132.3% | 141.2% | 113.7% | 94.0% | 100.9% | 101.3% | 120.0% | 139.1% | 153.6% | 131.5% | 107.5% | 120.3% | 126.3% | 120.0% | 139.1% | 153.6% | 131.5% | 115.5% | 132.5% | 142.4% | 120.0% | 132.3% | 149.7% | 128.8% | 115.9% | 135.0% | 148.0% |
| Ipswich - East | 14.8% | 14.4% | 14.1% | 14.9% | 16.1% | 15.9% | 16.1% | 14.8% | 15.1% | 15.3% | 17.2% | 18.4% | 19.0% | 20.0% | 14.8% | 15.1% | 15.3% | 17.2% | 19.8% | 20.9% | 22.6% | 14.8% | 14.4% | 15.2% | 17.4% | 20.6% | 22.3% | 24.6% |
| Ipswich - North | 11.0% | 9.7% | 9.0% | 7.8% | 6.7% | 7.2% | 7.8% | 11.0% | 10.2% | 9.8% | 9.0% | 7.7% | 8.6% | 9.7% | 11.0% | 10.2% | 9.8% | 9.0% | 8.2% | 9.5% | 10.9% | 11.0% | 9.7% | 9.4% | 8.7% | 8.1% | 9.7% | 11.6% |
| Karalee - Barellan Point | 15.1% | 17.5% | 19.3% | 23.4% | 28.3% | 33.3% | 36.8% | 15.1% | 18.4% | 21.0% | 27.0% | 32.3% | 39.7% | 45.9% | 15.1% | 18.4% | 21.0% | 27.0% | 34.8% | 43.7% | 51.7% | 15.1% | 17.5% | 20.2% | 25.8% | 32.5% | 39.0% | 44.4% |
| Leichhardt - One Mile | 102.6% | 97.8% | 94.5% | 92.1% | 95.0% | 100.6% | 101.5% | 102.6% | 102.8% | 102.8% | 106.6% | 108.7% | 120.0% | 126.5% | 102.6% | 102.8% | 102.8% | 106.6% | 116.8% | 132.1% | 142.7% | 102.6% | 97.8% | 102.2% | 109.3% | 125.5% | 147.0% | 164.8% |
| North Ipswich - Tivoli | 35.1% | 31.9% | 29.9% | 26.7% | 22.3% | 17.7% | 15.1% | 35.1% | 33.5% | 32.5% | 30.9% | 25.5% | 21.1% | 18.8% | 35.1% | 33.5% | 32.5% | 30.9% | 27.4% | 23.2% | 21.2% | 35.1% | 31.9% | 33.2% | 32.8% | 30.4% | 26.2% | 24.3% |
| Raceview | 16.1% | 15.6% | 15.2% | 14.7% | 13.7% | 11.6% | 11.8% | 16.1% | 16.4% | 16.5% | 17.0% | 15.7% | 13.8% | 14.7% | 16.1% | 16.4% | 16.5% | 17.0% | 16.9% | 15.3% | 16.6% | 16.1% | 15.6% | 15.8% | 16.1% | 16.4% | 16.5% | 16.7% |
| Ripley | 37.1% | 25.1% | 19.5% | 14.5% | 16.2% | 15.6% | 14.8% | 37.1% | 26.3% | 21.3% | 16.8% | 18.5% | 18.6% | 18.4% | 37.1% | 26.3% | 21.3% | 16.8% | 19.9% | 20.5% | 20.8% | 37.1% | 25.1% | 19.8% | 15.3% | 18.0% | 18.3% | 18.3% |
| Riverview | 738.3% | 792.1% | 827.6% | 846.7% | 916.5% | 1031.3% | 1097.8% | 738.3% | 832.8% | 900.4% | 979.7% | 1047.9% | 1230.1% | 1368.3% | 738.3% | 832.8% | 900.4% | 979.7% | 1126.5% | 1354.6% | 1543.5% | 738.4% | 792.1% | 901.0% | 1017.4% | 1235.9% | 1546.9% | 1800.5% |
| Bellbird Park - Brookwater | 11.7% | 12.5% | 13.0% | 13.9% | 12.2% | 10.6% | 9.9% | 11.7% | 13.1% | 14.2% | 16.1% | 13.9% | 12.7% | 12.4% | 11.7% | 13.1% | 14.2% | 16.1% | 15.0% | 13.9% | 14.0% | 11.7% | 12.5% | 13.5% | 15.0% | 13.7% | 12.4% | 11.9% |
| Camira - Gailes | 7.9% | 7.7% | 7.5% | 7.4% | 7.0% | 6.2% | 5.8% | 7.9% | 8.1% | 8.2% | 8.6% | 8.0% | 7.4% | 7.3% | 7.9% | 8.1% | 8.2% | 8.6% | 8.6% | 8.1% | 8.2% | 7.9% | 7.7% | 8.1% | 8.6% | 8.7% | 8.2% | 7.9% |
| Carole Park | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |

| | Scenario One | | | | | | | Scenario Two (Conservative) | | | | | | | Scenario Two (Optimistic) | | | | | | | | | | | | Scenario Three | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2016 | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 | 2016 | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 | 2016 | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 | 2016 | 2019 | 2021 | 2026 | 2031 | 2036 | 2041 |
| Collingwood Park - Redbank | 97.7% | 93.8% | 91.1% | 87.6% | 86.9% | 84.3% | 79.5% | 97.7% | 98.5% | 99.1% | 101.3% | 99.4% | 100.6% | 99.1% | 97.7% | 98.5% | 99.1% | 101.3% | 106.9% | 110.7% | 111.8% | 97.7% | 93.8% | 102.8% | 113.0% | 128.4% | 139.3% | 144.8% |
| Goodna | 25.6% | 27.8% | 29.4% | 30.5% | 33.5% | 33.2% | 34.6% | 25.6% | 29.3% | 32.0% | 35.3% | 38.3% | 39.6% | 43.1% | 25.6% | 29.3% | 32.0% | 35.3% | 41.1% | 43.6% | 48.6% | 25.6% | 27.8% | 31.5% | 35.5% | 42.7% | 45.9% | 51.8% |
| New Chum | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| Redbank Plains | 4.8% | 4.4% | 4.2% | 3.5% | 2.5% | 1.8% | 1.0% | 4.8% | 4.7% | 4.6% | 4.0% | 2.8% | 2.1% | 1.3% | 4.8% | 4.7% | 4.6% | 4.0% | 3.1% | 2.3% | 1.4% | 4.8% | 4.4% | 4.5% | 4.2% | 3.3% | 2.6% | 1.5% |
| Springfield | 5.1% | 5.5% | 5.8% | 6.8% | 7.5% | 6.7% | 6.4% | 5.1% | 5.8% | 6.3% | 7.9% | 8.5% | 8.0% | 7.9% | 5.1% | 5.8% | 6.3% | 7.9% | 9.2% | 8.8% | 9.0% | 5.1% | 5.5% | 6.2% | 8.0% | 9.9% | 9.8% | 10.2% |
| Springfield Lakes | 9.3% | 12.2% | 14.5% | 14.5% | 12.0% | 9.3% | 7.5% | 9.3% | 12.8% | 15.8% | 16.8% | 13.8% | 11.1% | 9.4% | 9.3% | 12.8% | 15.8% | 16.8% | 14.8% | 12.3% | 10.6% | 9.3% | 12.2% | 15.2% | 16.2% | 14.4% | 12.0% | 10.5% |
| Ipswich City | 59.3% | 57.6% | 56.6% | 51.5% | 47.4% | 44.0% | 40.7% | 59.3% | 60.6% | 61.6% | 59.6% | 54.1% | 52.4% | 50.7% | 59.3% | 60.6% | 61.6% | 59.6% | 58.2% | 57.7% | 57.2% | 59.3% | 57.6% | 61.5% | 61.4% | 62.6% | 63.9% | 64.0% |

Source: CDM Smith analysis